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TRACTION DATA ANALYSIS

Part 2: Behavior of Some Aerospace Fluids and Lubricants

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Traction behavior of several aerospace fluids and lubricants is correlated to simplified Newtonian models based on viscosity-pressure-temperature relations. Model coefficients are derived by regression analysis of experimental traction data, which is obtained by a conventional rolling disk type test machine. The model provides fast computation of traction coefficient under prescribed operating conditions and it is well suited for complex computer codes for the dynamic performance simulation of rolling bearings, where the required amount of computer time often imposes severe restrictions on use of the model for practical design.

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FOREWORD

This report documents the second and final set of traction data and model correlations obtained under this effort. The first data set was reported in the interim report, WL-TR-95-5056. All the experimental data were obtained at the Air Force Materials Directorate (WL/MLBT). The effort was carried out under Air Force Contract F33615-92-C-5902 with Mr. Shashi K. Sharma (WL/MLBT) as the Air Force Technical Monitor.

1. Executive Summary

Introduction

Lubricant behavior as a function of the operating variables in rolling/sliding contacts has proven to be critical in controlling performance of mechanical components such as rolling bearings, gears and cams. Lubricant traction, in most cases, is the primary force which contributes to acceleration of bearing elements, and thereby affects the overall dynamics and stability. Lubricant rheology has, therefore, been a subject of considerable interest over many years. Aside from classical Newtonian models where the lubricant behavior is modeled in terms of viscosity variation as a function of pressure and temperature, a number of investigations have considered visco-elastic effects, where, in addition to viscosity, properties such as shear modulus and critical shear stress define the lubricant behavior. Although both types of these models may provide acceptable prediction of traction behavior, there are two general problems when applying the models for practical design: first it is extremely difficult to independently measure the required fundamental properties, and secondly mathematical complexity of the models require a substantial amount of computing effort and, therefore impose significant restrictions on practical use of component performance simulation models, such as bearing dynamics computer codes. A viable approach has been to experimentally measure the traction behavior and then back fit the data to simplified models to estimate the constitutive constants by regression analysis. Such an approach, although weak in providing physical justification to specific behavior, does provide reasonable prediction of traction with a minium of computing effort. These semi-empirical models therefore become immediately useful to component models for practical design and performance simulation. The present investigation considers such an approach for a number of lubricants particularly used in a wide range of aerospace applications.

Experimental

As done in many past investigations [1-3], a rolling disk type of apparatus constitutes the basic foundation of the experimental investigation. Briefly, a pair of disk specimens are driven independently when a radial load is applied to form a concentrated contact. The rotational velocities of the disks are varied such that while the difference in the two surface velocities increases, sum of the two velocities is kept constant. Thus the rolling speed remains constant while the sliding velocity is varied. Torque transducers on one of the disk specimens measures the torque, which can be easily converted to traction force or traction coefficient, defined as a ratio of the traction force to applied normal load. The torque and slip signals are fed to a data acquisition system where the data may be digitized and stored for later processing. The experiment is repeated over a range of applied load, rolling velocities and operating temperatures. Such a data base is generated for each lubricant to be modeled.

Test Specimens, Lubricants and Operating Conditions

The number of fluids considered in the current investigation along with the geometry of disk specimens are summarized in table 1. The combination of varying crown and rolling radii result in a

range of contact ellipticity ratio from one, corresponding to a circular point contact, to infinity for a pure line contact. General characteristics and a brief description of each of the test fluids is presented below:

Lubricant A: MIL-L-7808: This is a very common lubricant used in gas turbine engines for a wide range of military aircrafts. Studies of traction behavior and overall rheology of this fluid has been of considerable interest over the past couple of decades. Some of the most recent investigations [4-6] have been devoted to modeling visco-elastic effects and their significance in overall effect on rolling bearing behavior in a gas turbine engine.

Lubricant B: Mobil RL-714: This fluid is a PAO (polyalphaolefin) synthetic hydrocarbon base oil used in automobile oils, industrial lubricants and greases.

Lubricant C: Shell Turbo-78. Shell turbo-78 is a lubricating oil for steam turbines and gears and similar moderate service applications. It conforms to the MIL-L-17331G, Amendment 1, specification.

Lubricant D: MLO 89-126 Coray 100: Primarily for space applications, this lubricant is a naphthenic mineral oil formulated with tricresylphosphate (TCP).

Lubricant E: MLO 89-126: This fluid is same as lubricant D (Coray 100) after 30.5% evaporation by weight.

Lubricant F: MLO 93-192: This is an experimental hydraulic fluid formulated with a PAO (polyalphaolefin) base oil, 15.6% of a viscosity index improver and other additives.

Lubricant G: MLO 84-473: Another fluid, for space applications, formulated with 95% PAO base oil with 5% Bardahl antiwear additive.

Lubricant H: MLO 81-288 VacKote: Also for space applications, this fluid consists of 95% paraffinic mineral base oil (Apiezon-C) and 5% Bardahl additive.

Lubricant I: MLO 81-288: Another sample of lubricant H.

Lubricant J: MLO 90-715: This is a di-2-ethylene sebacate ester base oil.

Lubricant K: MLO 90-715: Another sample of lubricant J.

Lubricant L: MLO 91-119 Pennzane: This is a multialkylated cyclopentane oil based space lubricant.

Lubricant M: MLO 89-180 Vistalube-7: Also for space applications, this is an alkylbenzene base oil.

The inlet temperature in all cases varied in the range of 300 to 422 ^{o}K, while the range for rolling speed was approximately 2 to 20 M/S. Contact loads were varied to produce a variation of contact stress in the range of about 0.30 to 2.0 GPa.

Viscosity-Pressure-Temperature Relations

As will be discussed later, the computation of lubricant film thickness in the contact requires the viscosity-pressure-temperature relation at moderate pressures. While this data was available in the literature for some of the test fluids, the viscosity was actually measured as a function of pressure and temperature for several of the test fluids. In all cases a relationship of the following form is

used:

$$\mu = \mu_o \{ \exp \alpha p + \beta \left(\frac{1}{T_o} - \frac{1}{T} \right) + \gamma p \left(\frac{1}{T_o} - \frac{1}{T} \right) \}$$

where μ is the viscosity at pressure p and temperature T, μ_o is the reference viscosity at reference temperature T_o, and α, β, γ, are respectively the viscosity-pressure, viscosity-temperature and viscosity-pressure-temperature coefficients.

The experimental viscosity data are curve fitted to the above equation and the various coefficients are computed by regression analysis. Typical fit is shown in Figure 1, and the computed coefficients for the test fluids, considered for traction modeling, are summarized in Table 2.

Data Preprocessing

The raw experimental data consist of disk rpm and torque, as measured by a transducer on one of the disks. The data are generally plotted as torque versus the difference in the rpm of the two disks, which corresponds to relative slip. The relative slip is varied from a negative to a positive value. The first step in data preprocessing is to compute the effective data origin. This is done by simply integrating torque with respect to the slip velocity. Since the magnitude of slip velocity at the first and last data point are closely identical, and the directions of slip at these two extreme points are opposite to each other, the integrated torque value may be used to compute a mean value, which by symmetry corresponds to a torque value at zero slip. This value is, therefore, subtracted from the torque data to compute the effective data origin. With the given normal load, and appropriate scale factors, the torque data may now be converted to traction coefficient versus slide-to-roll plots. Since the traction coefficient should not depend on the direction of slip, the traction curve may be folded over about the zero point. These two folded curves may now be used to compute a mean traction coefficient at a given slide-to-roll value. Also, the data may now be sampled to select a set of points which may be subsequently used in traction modeling.

Data Selection for Traction Modeling

Although the experimental data are obtained over a broad variation of rolling velocity, it may not be possible to analytically model traction when the lubricant film thickness is less than a certain critical value, which is generally taken as three times the composite rms roughness of the two disks. Using such a criterion, the data at very low film thickness is excluded from traction modeling work.

Traction Modeling Procedure

The approach for traction modeling is based on the work by Gupta [7], which is actually after the earlier work by Kannel and Walowit [8]. This model is essentially based on Newtonian behavior of the fluid in the contact zone, where the pressures are significantly higher than those at which the lubricant viscosity data, discussed above, is available. Thus another, some what simplified, viscosity relation is assumed to define lubricant traction:

$$\mu = \tilde{\mu}_o \exp \{ \tilde{\alpha} p + \tilde{\beta} (T_o - T) \}$$

where $\tilde{\mu}_o$, $\tilde{\alpha}$, and $\tilde{\beta}$ are the effective coefficients which define the viscosity behavior in the high pressure contact zone.

With the above assumption of lubricant behavior, traction modeling consists of two steps: first the lubricant behavior under ambient pressure is used to compute the lubricant film thickness, and then the energy equation is solved through the film to compute the shear stress distribution, using the above "effective" viscosity relation. The shear stress is, of course, expressed in terms of the three unknown coefficients. The computed shear stress is then integrated to compute the total traction force and thus a traction coefficients is computed in terms of the three coefficients in the viscosity relation. A least squared regression analysis of the available experimental traction data is now performed to compute the three coefficients, for best fit of the model to the experimental data. Analytical details of the model are omitted here, since a complete formulation has been published in earlier work [7].

As shown earlier [7,8], the above simplified model results in an almost closed form solution, once the three constitutive constants, $\tilde{\mu}_o$, $\tilde{\alpha}$, and $\tilde{\beta}$ are known. In addition the lubricant properties vary as a function of pressure and temperature throughout the contact. Such a property variation results in an acceptable simulation of all thermal effects. Such properties of this model make it computationally very efficient, and model implementation in practical design tools, such as rolling bearing dynamics analysis [9], becomes quite straight forward.

An alternate approach to model traction behavior is based on visco-elastic effects [4-6, 10]. Here, the pertinent lubricant properties, in addition to viscosity, include shear modulus and critical shear stress beyond which the viscous effect becomes significant. Again the properties may vary with pressure and temperature. However, the model is computationally more complex and generally requires integration of a differential equation through the lubricant film, and therefore, model implementation to practical design tools is somewhat more difficult. In view of such limitations in practical use of the model, the current effort is restricted to simplified Newtonian models where the lubricant behavior is completely prescribed in terms of viscosity-pressure-temperature relations, as discussed above.

Results

Figure 2 shows typical correlations of the experimental data for lubricant A (MIL-L-7808) to the traction model predictions. The closeness of this fit is not surprising since most of the past traction model development [1-7] effort has centered around this lubricant. Model coefficients over the range of operating conditions considered are summarized in table 3.

Model fit to lubricant B: Mobil 28 base oil, is also fairly good as seen in figure 3. The estimated coefficients for this lubricant are summarized in table 4. Typical correlations for the gear oil, lubricant C, are shown in figure 4 while the coefficients are tabulated in table 5. Although the fit in this case is not as good as that for lubricant A and B, it is quite acceptable.

Data correlation to the model for lubricant D and E are somewhat marginal, as shown in figures 5a and 5b. While the fit is reasonable at high contact pressures, the discrepancy increases with

decreasing contact pressures. Perhaps introduction of pressure-temperature coefficient in the effective viscosity relation may provide some improvement. The difference in traction between the new and used lubricant is rather negligible; the small difference seen by comparing figures 5a and 5b may very well be attributed to the small difference in contact pressures in the two cases. Model coefficients, as computed by regression analysis, are summarized in tables 6 and 7 for these lubricants.

For the common PAO base fluids, lubricant F, used extensively for aerospace applications, the model fit is very good, as seen in figure 6. Behavior of lubricant G is expected to be very similar to that of lubricant F. Thus the coefficients summarized in table 8 may be used for both lubricants F and G.

Test cases H and I correspond to the same lubricant, VacKote. The only difference in the these two cases is the contact ellipticity ratio, which is 4.68 and 6.62. Model fit to the experimental data is quite acceptable as shown in figures 7a and 7b. The small difference in traction in these two cases may be attributed to the small difference in contact pressures, which would indicate that traction may remain unchanged as a function of contact ellipticity if the contact pressure is maintained constant. Model coefficients for these two cases, as obtained by the regression analysis, are summarized in tables 9 and 10.

Cases J and K correspond to contact ellipticity ratios of 4.461 and 1.055 respectively for the Hatcol 3110 lubricant. The model fit is quite reasonable at low pressures, as shown in figure 8b but under low pressure conditions the deviation is quite large, as seen in figure 8a. Also, note that the change in effective pressure-viscosity coefficient, as determined by the regression analysis, in the two pressure ranges. Detailed results of the regression analysis are documented in tables 11 and 12 for the two test conditions. It is interesting to compare the lowest load data in figure 8a to that at the highest load in figure 8b. These two sets of data are at the same contact pressure but the ellipticity ratios are greatly different; the higher ellipticity ratio results is a somewhat higher traction. The effect may be contributed to significant side leakage in case of a circular contact corresponding to an ellipticity ratio of one.

Conclusions

Experimentally measured traction behavior of several fluids and lubricants for aerospace application seems to fit reasonably well with a simplified traction model based on a Newtonian viscosity-pressure-temperature relation. The effective coefficients of the model are derived by a regression analysis of the experimental data. Comparison of the experimental data to model predictions shown acceptable correlations. Thus the estimated model coefficients may be used to predict traction in practical applications with acceptable confidence.

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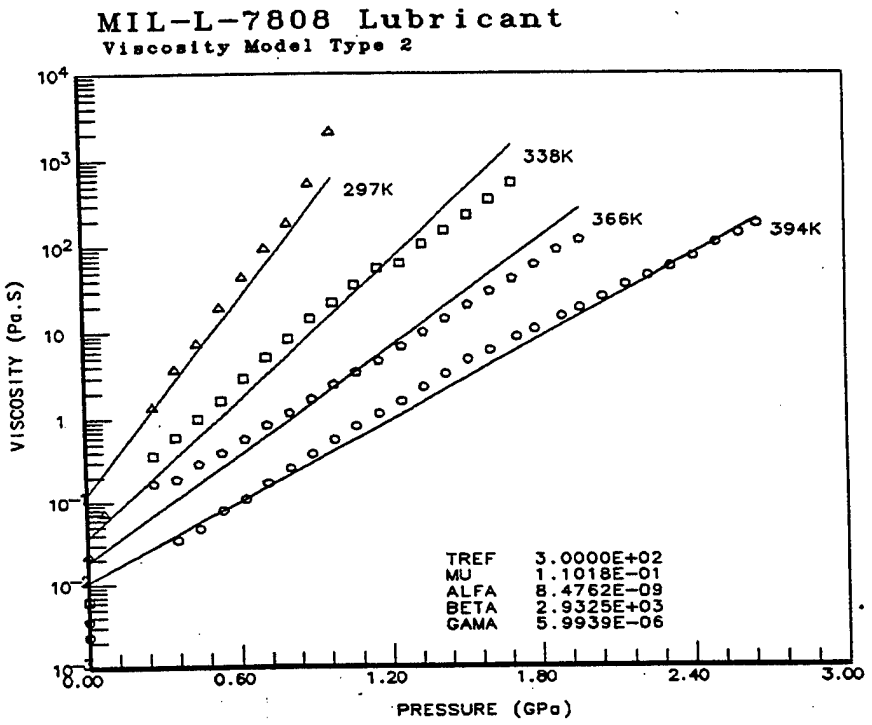

Figure 1.
Typical viscosity-pressure-temperature data.

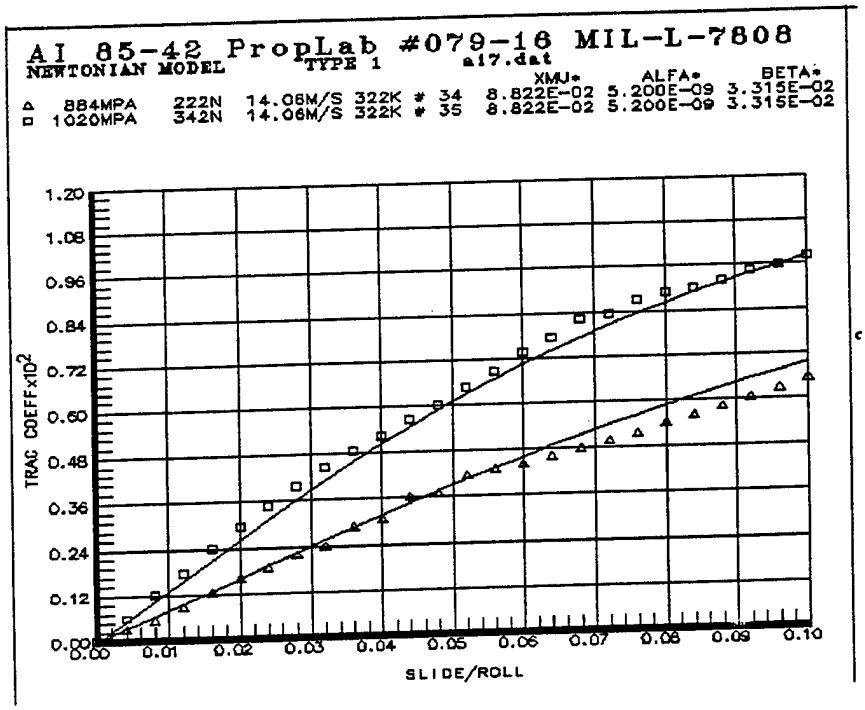

Figure 2.
Typical traction data correlation for the MIL-L-7808 lubricant.

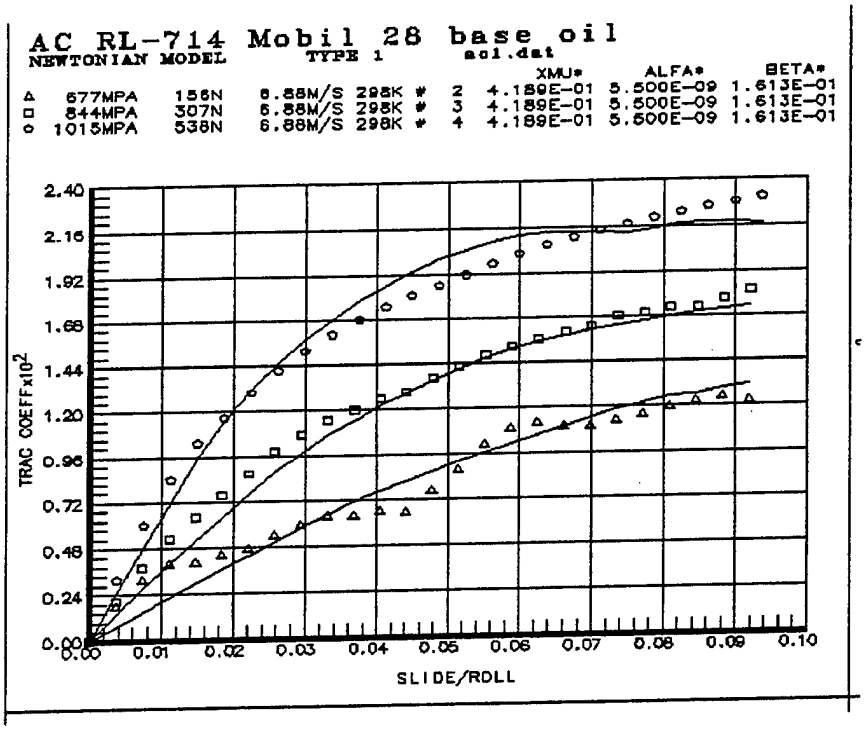

Figure 3.
Typical traction data correlations of the Mobil 28 base oil.

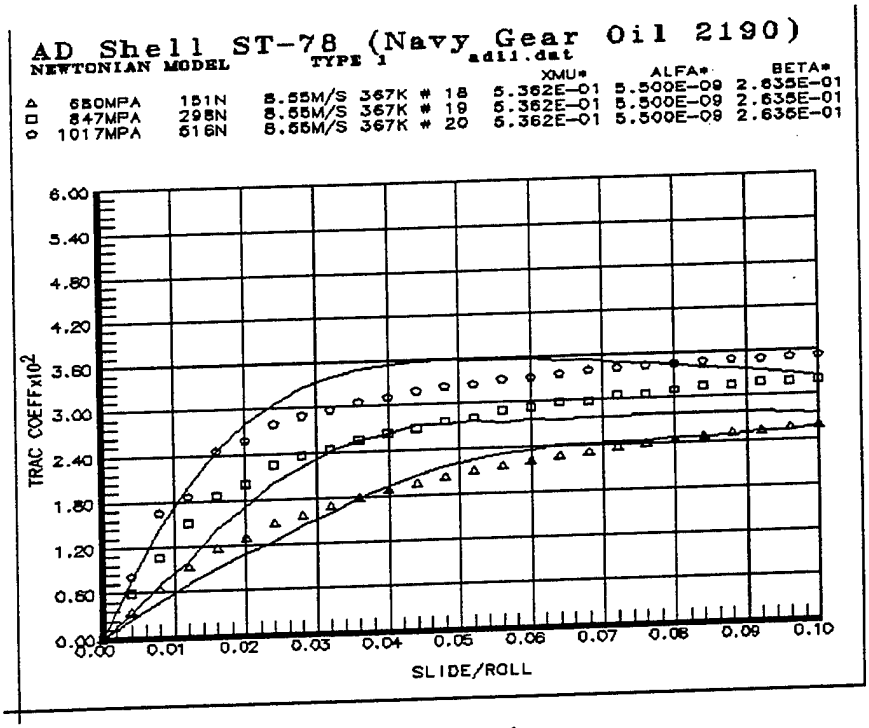

Figure 4.
Traction data correlations for the Shell ST-78 gear oil.

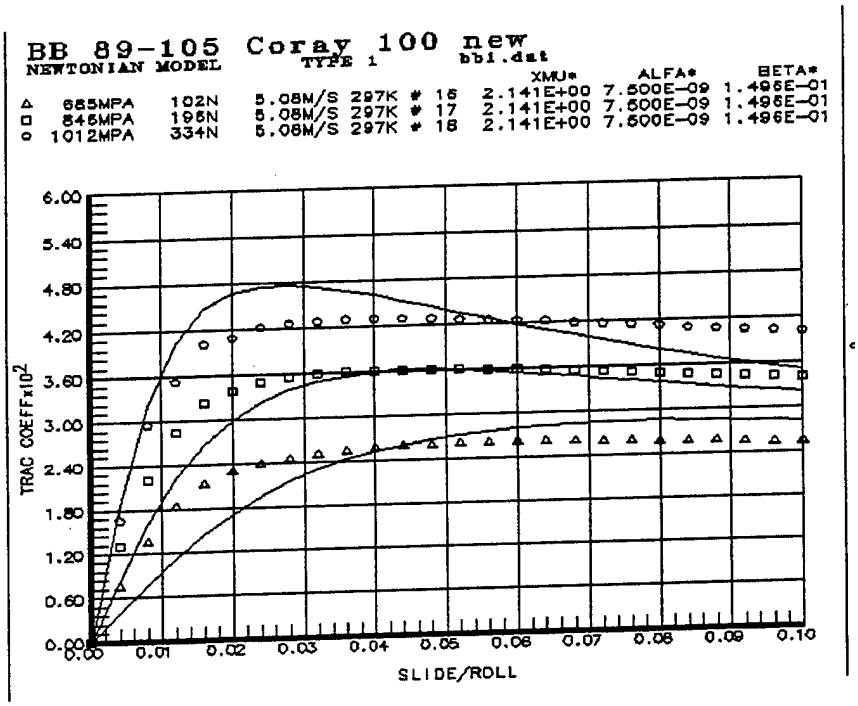

Figure 5a.
Typical traction behavior of the Coray 100 lubricant.

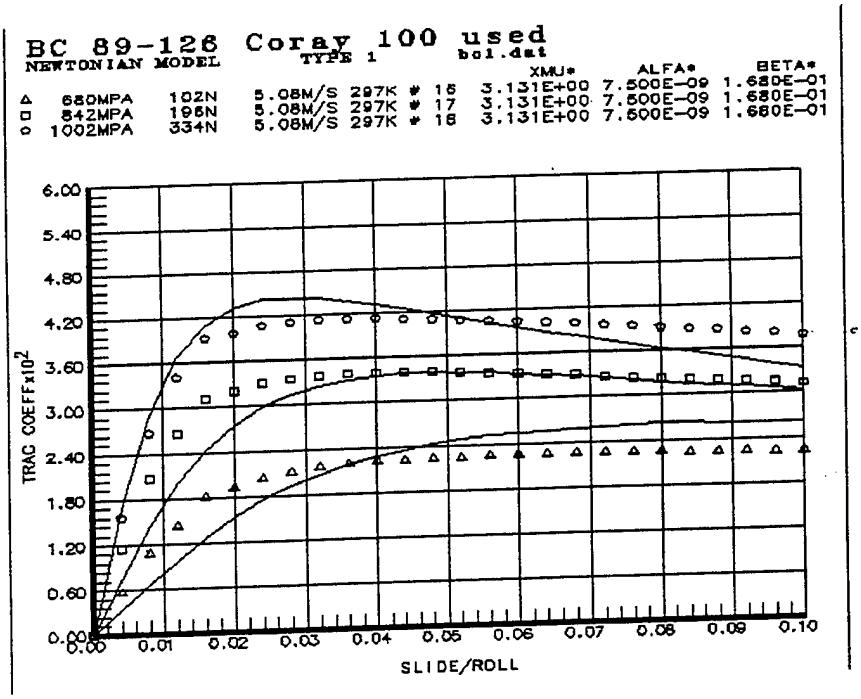

Figure 5b.
Typical traction data correlations for the Coray 100 used oil.

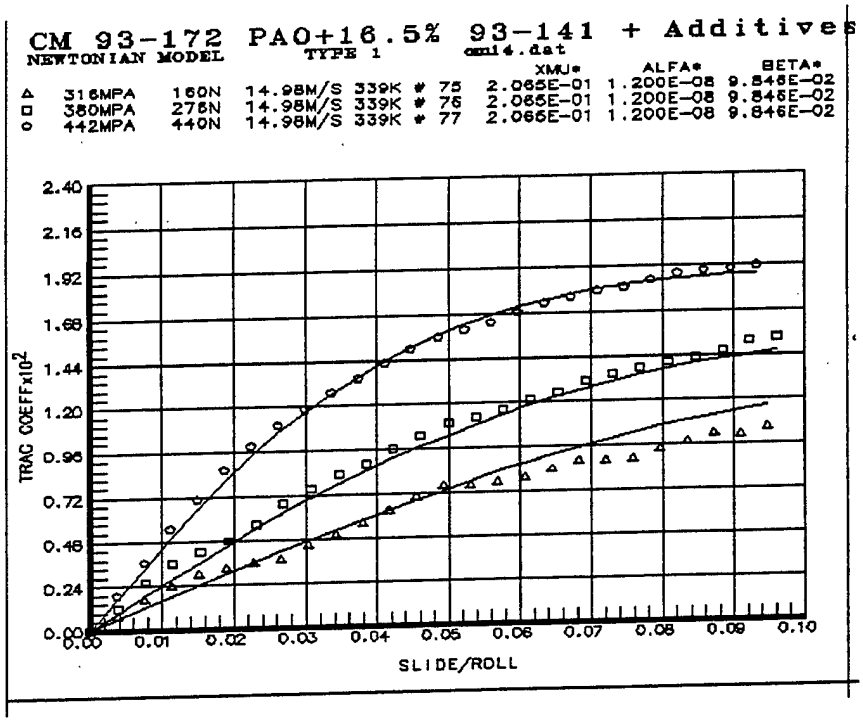

Figure 6.
Traction data correlation for the PAO lubricant with additives.

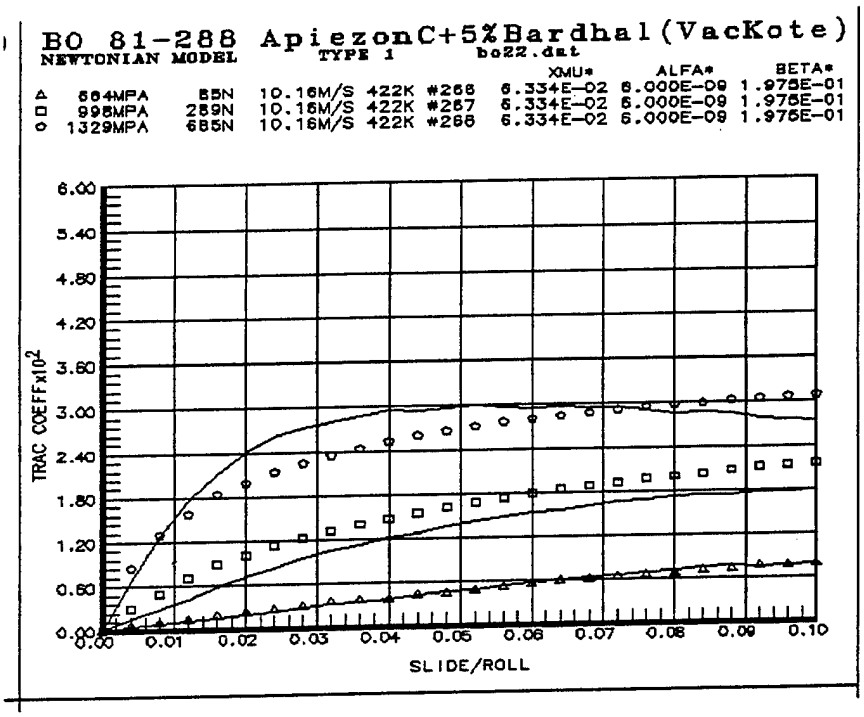

Figure 7a.

Typical behavior of VacKote lubricant under contact ellipticity ratio of 4.686

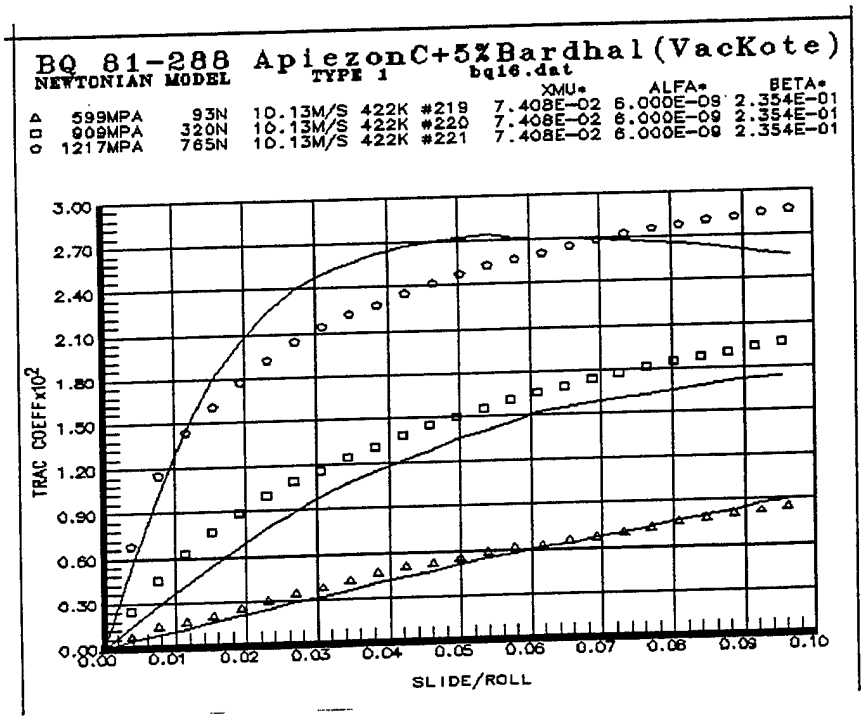

Figure 7b.

Behavior of VacKote lubricant under contact ellipticity ratio of 6.620.

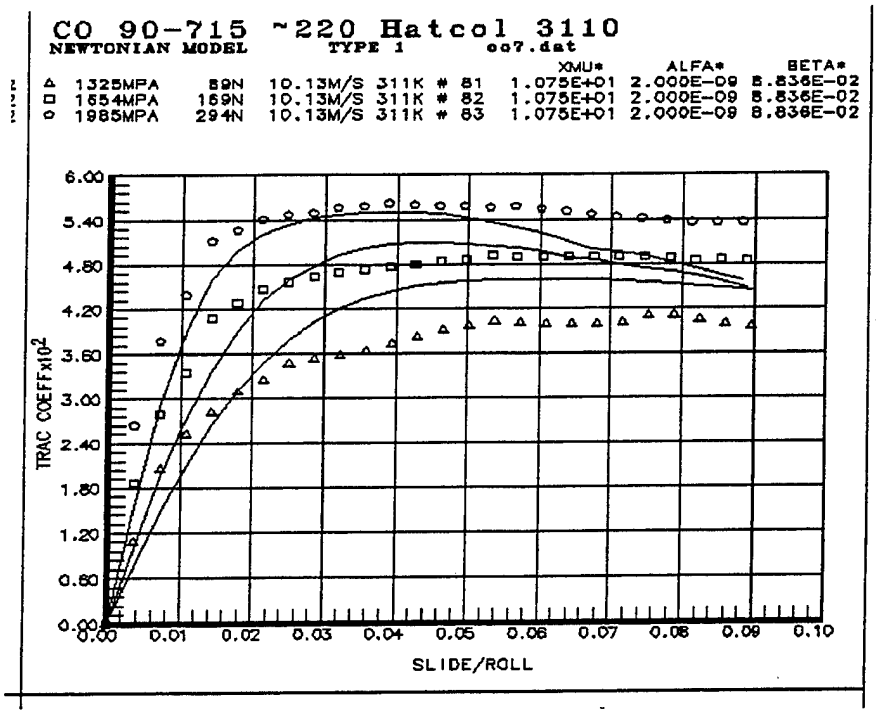

Figure 8a.

Typical traction behavior of Hatcol 3110 with contact ellipticity ratio of 1.055.

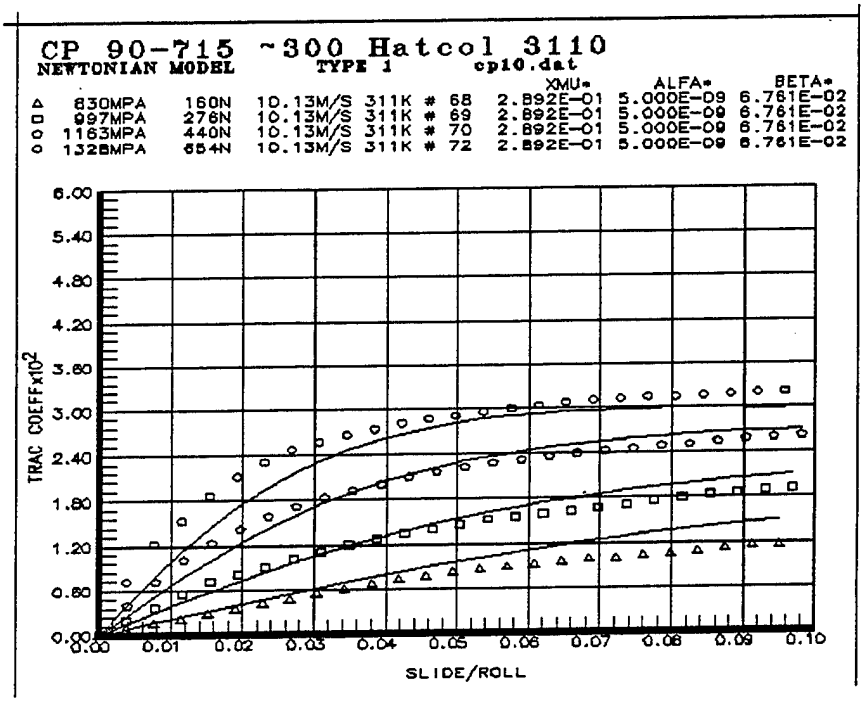

Figure 8b.

Typical traction behavior of Hatcol 3110 with contact ellipticity ratio of 4.641.

Table 1: Test Lubricants and Disk Specimen Geometry

Test Case #	Test Codes	Similar Commercial Product	Disk Geometry			
			Rolling Radius (mm)	Crown Radius (mm)		Contact Ellipticity Ratio
				Disk 1	Disk 2	
A	AI 85-42	MIL-L-7808	19.050	248.67	248.67	5.267
B	AC RL-714	Mobil 28 Base Oil	13.653	891.54	1115.06	15.061
C	AD ST-78	Shell ST-78 Gear Oil	13.653	922.02	939.80	14.514
D	BB 89-105	Coray 100 New Lubricant	19.050	266.70	205.74	5.097
E	BC 89-105	Coray 100 Used Lubricant	19.050	241.300	251.46	5.286
F	CM 93-172	PAO + 16.5% 93-141 + Additives	18.415	no crown	no crown	infinite
G	AJ 84-473	PAO + 5% Bardahl	13.653	972.06	957.58	14.825
H	BO 81-288	ApiezonC + 5%Bardahl (VacKote)	19.050	203.20	203.20	4.686
I	BQ 81-288	ApiezonC + 5%Bardahl (VacKote)	19.050	381.00	330.20	6.620
J	CO 90-715	Hatcol 3110	18.987	17.780	17.272	4.461
K	CP 90-715	Hatcol 3110	18.733	228.60	172.72	1.055
L	BP 91-119	Pennzane	19.050	381.00	330.20	6.620
M	CC 89-180	VistaLube 7	19.050	25.400	27.940	1.249

Table 2: Viscosity-Pressure-Temperature Relations
Reference Temperature T_0 = 300 °K

Test Case	μ_o (Pa.S)	α (1/GPa)	β (K) x10^{-3}	γ (K/MPa)	Thermal Conductivity (N/S/K)
A: MIL-L-7808	0.1102	8.4762	2932	5.9939	0.0966
B: Mobil 28 Base Oil	0.0395	13.14	3428		0.132
C: Shell ST-78 Gear Oil	0.135	15.95	4598		0.132
D: Coray 100 New Oil	0.161	10.36	4880		0.1385
E: Coray 100 Used Oil	0.161	10.36	4880		0.1385
F: PAO + 16.5% 93-141 + Additives	0.214	29.0	4828		0.172
G: PAO + 5% Bardahl	0.214	29.0	4828		0.172
H: ApiezonC + 5% Bardahl (VacKote)	0.16232	20.217	3799	12.428	0.138
I: ApiezonC + 5% Bardahl (VacKote)	0.16232	20.217	3799	12.428	0.138
J: Hatcol 3110	0.03449	9.3260	2825	3.9378	0.120
K: Hatcol 3110	0.03449	9.3260	2825	3.9378	0.120
L: Pennzane					
M: VistaLube 7					

Table 3: Traction Parameters for Lubricant A: MIL-L-7808

$\tilde{\alpha}$ = 5.20 (1/GPa)

T_o (K)	U (M/S)	$\tilde{\mu}_o$ (Pa.S)	$\tilde{\beta}$ (1/K)
299	5.23	0.565	0.0677
	9.73	0.363	0.0441
	14.1	0.243	0.0422
	21.1	0.152	0.0402
322	5.23	0.181	0.0620
	9.73	0.129	0.0442
	14.1	0.0882	0.0331
	21.1	0.0647	0.0301
344	5.23	0.0770	0.0415
	9.73	0.0555	0.0436
	14.1	0.0433	0.0293
	21.1	0.0402	0.0367
367	5.23	0.0500	0.197
	9.73	0.0265	0.0332
	14.1	0.0213	0.0353
	21.1	0.0215	0.0532
389	5.23	0.0481	0.416
	9.73	0.0156	0.0592
	14.1	0.0113	0.0165
	21.1	0.0132	0.0736

Table 4: Traction Parameters for Lubricant B: Mobil 28 Base Oil

$\tilde{\alpha}$ = 5.50 (1/GPa)

T_o (K)	U (M/S)	$\tilde{\mu}_o$ (Pa.S)	$\tilde{\beta}$ (1/K)
298	6.88	0.419	0.161
	8.53	0.385	0.128
	10.3	0.368	0.117
313	6.88	0.323	0.205
	8.53	0.283	0.159
	10.3	0.261	0.134
328	6.88	0.174	0.306
	8.53	0.147	0.211
	10.3	0.130	0.172
366	10.3	0.0586	0.371

Table 5: Traction Parameters for Lubricant C: Shell ST-78 Gear Oil

$= \tilde{\alpha} = 5.50$ (1/GPa)

T_o (K)	U (M/S)	$\tilde{\mu}_o$ (Pa.S)	$\tilde{\beta}$ (1/K)
298	6.89	6.067	0.0896
	8.55	4.657	0.0771
	10.3	3.753	0.0684
313	6.89	4.714	0.124
	8.55	3.770	0.103
	10.3	3.015	0.0885
328	6.89	3.454	0.162
	8.55	2.509	0.126
	10.3	2.227	0.111
367	8.55	0.536	0.263
	10.3	0.582	0.213

Table 6: Traction Parameters for Lubricant D: Coray 100 New Lubricant

$\tilde{\alpha}$ = 7.50 (1/GPa)

T_o (K)	U (M/S)	$\tilde{\mu}_o$ (Pa.S)	$\tilde{\beta}$ (1/K)
297	5.08	2.141	0.149
	7.62	2.009	0.118
	10.2	1.057	0.0922
311	5.08	2.742	0.224
	7.62	1.720	0.150
	10.2	1.211	0.116
322	5.08	2.277	0.283
	7.62	0.925	0.180
	10.2	0.782	0.139
356	5.08	0.402	0.632
	7.62	0.369	0.352
	10.2	0.287	0.237

Table 7: Traction Parameters for Lubricant E: Coray 100 Used Oil

$\tilde{\alpha}$ = 7.50 (1/GPa)

T_o (K)	U (M/S)	$\tilde{\mu}_o$ (Pa.S)	$\tilde{\beta}$ (1/K)
297	5.08	3.131	0.168
	7.62	1.840	0.124
	10.1	0.861	0.0966
311	5.08	2.611	0.239
	7.62	0.956	0.153
	10.1	0.694	0.116
322	5.08	2.654	0.324
	7.62	1.260	0.199
	10.1	0.888	0.150

Table 8: Traction Parameters for Lubricant F: PAO + 16.5% 93-141 + Additives

$\tilde{\alpha}$ = 12.0 (1/GPa)

T_o (K)	U (M/S)	$\tilde{\mu}_o$ (Pa.S)	$\tilde{\beta}$ (1/K)
300	2.47	2.281	0.246
	5.02	1.978	0.127
	9.96	1.373	0.0835
	15.0	1.044	0.0672
	20.0	1.069	0.0733
311	2.47	1.546	0.338
	5.02	1.240	0.159
	9.96	0.835	0.0903
	15.0	0.715	0.0756
	20.0	0.822	0.0863
339	5.02	0.329	0.295
	9.96	0.213	0.124
	15.0	0.206	0.0985
	20.0	0.303	0.133
367	5.02	0.0765	0.306
	9.96	0.0595	0.172
	15.0	0.0599	0.137
	20.0	0.0845	0.174
394	15.0	0.0198	0.165
	20.0	0.032	0.234

Table 9: Traction Parameters for Lubricant H: Apiezon C + 5% Bardahl (VacKote)

$\tilde{\alpha}$ = 6.00 (1/GPa) Contact Ellipticity = 4.686

T_o (K)	U (M/S)	$\tilde{\mu}_o$ (Pa.S)	$\tilde{\beta}$ (1/K)
300	5.08	4.126	0.0896
	10.2	1.696	0.0431
	15.2	1.452	0.0348
	20.3	1.782	0.0381
311	5.08	3.348	0.113
	10.2	2.087	0.0513
	15.2	1.790	0.0472
	20.3	1.346	0.0368
339	5.08	1.326	0.165
	10.2	0.873	0.0673
	15.2	0.743	0.0490
	20.3	0.826	0.0431
367	5.08	0.508	0.260
	10.2	0.364	0.0985
	15.2	0.372	0.0684
	20.3	0.452	0.0612
394	5.08	0.206	0.316
	10.2	0.181	0.153
	15.2	0.190	0.0875
	20.3	0.345	0.0947
422	5.08	0.0898	0.495
	10.2	0.0633	0.197
	15.2	0.0653	0.124
	20.3	0.0899	0.102

Table 10: Traction Parameters for Lubricant I: Apiezon C + 5% Bardahl (VacKote)

$\tilde{\alpha}$ = 6.00 (1/GPa) Contact Ellipticity = 6.620

T_o (K)	U (M/S)	$\tilde{\mu}_o$ (Pa.S)	$\tilde{\beta}$ (1/K)
300	10.1	2.233	0.0459
	15.2	1.345	0.0394
	20.3	1.676	0.0424
311	10.1	1.831	0.0513
	15.2	1.532	0.0425
	20.3	1.608	0.0478
339	10.1	1.169	0.0717
	15.2	0.992	0.0584
	20.3	1.216	0.0564
367	10.1	0.540	0.113
	15.2	0.487	0.0712
	20.3	0.631	0.0724
394	10.1	0.207	0.155
	15.2	0.200	0.106
	20.3	0.304	0.104
422	10.1	0.0741	0.235
	15.2	0.0810	0.155

Table 11: Traction Parameters for Lubricant J: Hatcol 3110

$\tilde{\alpha}$ = 2.00 (1/GPa) Contact Ellipticity = 1.055

T_o (K)	U (M/S)	$\tilde{\mu}_o$ (Pa.S)	$\tilde{\beta}$ (1/K)
300	2.51	30.50	0.371
	5.10	35.33	0.263
	10.1	14.17	0.0710
	15.2	14.03	0.0558
	20.3	18.95	0.0500
311	10.1	10.75	0.0884
	15.2	9.808	0.0564
	20.3	13.67	0.0524
339	15.2	4.550	0.0770
	20.3	7.872	0.0702
367	15.2	3.746	0.214
	20.3	3.509	0.0870
394	15.2	1.173	0.134
422	15.2	0.898	0.227
	20.3	1.206	0.186

Table 12: Traction Parameters for Lubricant K: Hatcol 3110

$\tilde{\alpha}$ = 5.00 (1/GPa) Contact Ellipticity = 4.641

T_o (K)	U (M/S)	$\tilde{\mu}$ (Pa.S)	$\tilde{\beta}$ (1/K)
300	2.51	0.920	0.435
	5.11	0.675	0.137
	10.1	0.453	0.0661
	15.2	0.447	0.0562
	20.3	0.592	0.0667
311	2.51	0.588	0.519
	5.11	0.451	0.144
	10.1	0.289	0.0676
	15.2	0.322	0.0701
	20.3	0.418	0.0734
339	5.11	0.113	0.169
	10.1	0.0910	0.0944
	15.2	0.0921	0.0765
	20.3	0.141	0.103
367	5.11	0.0462	0.0330
	10.1	0.0340	0.129
	15.2	0.0350	0.0999
	20.3	0.0577	0.168
394	10.1	0.0120	0.241
	15.2	0.0145	0.202
	20.3	0.0162	0.172
422	10.1	0.00563	0.234
	15.2	0.00541	0.298
	20.3	0.00575	0.188

2. Traction Data Set A: 85-42 MIL-L-7808

Data set name: AI 85-42 PropLab #079-16 MIL-L-7808
Rolling radii [Disks 1 & 2] (in): 0.75 0.75
Crown radii [Disks 1 & 2] (in): 9.79 9.49

Number of data sets found = 100

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
1	79.00	8.45	2284.00	2956.00	2620.00	49	o77079 #1
2	79.00	11.29	2284.00	2956.00	2620.00	49	o77079 #2
3	79.00	22.65	2284.00	2956.00	2620.00	49	o77079 #3
4	79.00	49.63	2284.00	2956.00	2620.00	49	o77079 #4
5	79.00	77.32	2284.00	2956.00	2620.00	49	o77079 #5
6	79.00	8.45	4256.00	5504.00	4880.00	49	o77079 #6
7	79.00	11.29	4256.00	5504.00	4880.00	49	o77079 #7
8	79.00	22.65	4256.00	5504.00	4880.00	49	o77079 #8
9	79.00	49.63	4256.00	5504.00	4880.00	49	o77079 #9
10	79.00	77.32	4256.00	5504.00	4880.00	49	o77079 #10
11	79.00	8.45	6162.00	7938.00	7050.00	49	o77079 #11
12	79.00	11.29	6162.00	7938.00	7050.00	49	o77079 #12
13	79.00	22.65	6162.00	7938.00	7050.00	49	o77079 #13
14	79.00	49.63	6162.00	7938.00	7050.00	49	o77079 #14
15	79.00	77.32	6162.00	7938.00	7050.00	49	o77079 #15
16	79.00	8.45	9280.00	11920.00	10600.00	49	o77079 #16
17	79.00	11.29	9280.00	11920.00	10600.00	49	o77079 #17
18	79.00	22.65	9280.00	11920.00	10600.00	49	o77079 #18
19	79.00	49.63	9280.00	11920.00	10600.00	49	o77079 #19
20	79.00	77.32	9280.00	11920.00	10600.00	49	o77079 #20
21	120.00	8.45	2284.00	2956.00	2620.00	49	o77120 #1
22	120.00	11.29	2284.00	2956.00	2620.00	49	o77120 #2
23	120.00	22.65	2284.00	2956.00	2620.00	49	o77120 #3
24	120.00	49.63	2284.00	2956.00	2620.00	49	o77120 #4
25	120.00	77.32	2284.00	2956.00	2620.00	49	o77120 #5
26	120.00	8.45	4256.00	5504.00	4880.00	49	o77120 #6
27	120.00	11.29	4256.00	5504.00	4880.00	49	o77120 #7
28	120.00	22.65	4256.00	5504.00	4880.00	49	o77120 #8
29	120.00	49.63	4256.00	5504.00	4880.00	49	o77120 #9
30	120.00	77.32	4256.00	5504.00	4880.00	49	o77120 #10
31	120.00	8.45	6162.00	7938.00	7050.00	49	o77120 #11
32	120.00	11.29	6162.00	7938.00	7050.00	49	o77120 #12
33	120.00	22.65	6162.00	7938.00	7050.00	49	o77120 #13
34	120.00	49.63	6162.00	7938.00	7050.00	49	o77120 #14
35	120.00	77.32	6162.00	7938.00	7050.00	49	o77120 #15
36	120.00	8.45	9280.00	11920.00	10600.00	49	o77120 #16
37	120.00	11.29	9280.00	11920.00	10600.00	49	o77120 #17
38	120.00	22.65	9280.00	11920.00	10600.00	49	o77120 #18
39	120.00	49.63	9280.00	11920.00	10600.00	49	o77120 #19
40	120.00	77.32	9280.00	11920.00	10600.00	49	o77120 #20
41	159.00	8.45	2284.00	2956.00	2620.00	49	o77159 #1
42	159.00	11.29	2284.00	2956.00	2620.00	49	o77159 #2
43	159.00	22.65	2284.00	2956.00	2620.00	49	o77159 #3
44	159.00	49.63	2284.00	2956.00	2620.00	49	o77159 #4
45	159.00	77.32	2284.00	2956.00	2620.00	49	o77159 #5
46	159.00	8.45	4256.00	5504.00	4880.00	49	o77159 #6
47	159.00	11.29	4256.00	5504.00	4880.00	49	o77159 #7
48	159.00	22.65	4256.00	5504.00	4880.00	49	o77159 #8
49	159.00	49.63	4256.00	5504.00	4880.00	49	o77159 #9
50	159.00	77.32	4256.00	5504.00	4880.00	49	o77159 #10

Data set: AI 85-42 PropLab #079-16 MIL-L-7808 ....continued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
51	159.00	8.45	6162.00	7938.00	7050.00	49	o77159 #11
52	159.00	11.29	6162.00	7938.00	7050.00	49	o77159 #12
53	159.00	22.65	6162.00	7938.00	7050.00	49	o77159 #13
54	159.00	49.63	6162.00	7938.00	7050.00	49	o77159 #14
55	159.00	77.32	6162.00	7938.00	7050.00	49	o77159 #15
56	159.00	8.45	9280.00	11920.00	10600.00	49	o77159 #16
57	159.00	11.29	9280.00	11920.00	10600.00	49	o77159 #17
58	159.00	22.65	9280.00	11920.00	10600.00	49	o77159 #18
59	159.00	49.63	9280.00	11920.00	10600.00	49	o77159 #19
60	159.00	77.32	9280.00	11920.00	10600.00	49	o77159 #20
61	200.00	8.45	2284.00	2956.00	2620.00	49	o77200 #1
62	200.00	11.29	2284.00	2956.00	2620.00	49	o77200 #2
63	200.00	22.65	2284.00	2956.00	2620.00	49	o77200 #3
64	200.00	49.63	2284.00	2956.00	2620.00	49	o77200 #4
65	200.00	77.32	2284.00	2956.00	2620.00	49	o77200 #5
66	200.00	8.45	4256.00	5504.00	4880.00	49	o77200 #6
67	200.00	11.29	4256.00	5504.00	4880.00	49	o77200 #7
68	200.00	22.65	4256.00	5504.00	4880.00	49	o77200 #8
69	200.00	49.63	4256.00	5504.00	4880.00	49	o77200 #9
70	200.00	77.32	4256.00	5504.00	4880.00	49	o77200 #10
71	200.00	8.45	6162.00	7938.00	7050.00	49	o77200 #11
72	200.00	11.29	6162.00	7938.00	7050.00	49	o77200 #12
73	200.00	22.65	6162.00	7938.00	7050.00	49	o77200 #13
74	200.00	49.63	6162.00	7938.00	7050.00	49	o77200 #14
75	200.00	77.32	6162.00	7938.00	7050.00	49	o77200 #15
76	200.00	8.45	9280.00	11920.00	10600.00	49	o77200 #16
77	200.00	11.29	9280.00	11920.00	10600.00	49	o77200 #17
78	200.00	22.65	9280.00	11920.00	10600.00	49	o77200 #18
79	200.00	49.63	9280.00	11920.00	10600.00	49	o77200 #19
80	200.00	77.32	9280.00	11920.00	10600.00	49	o77200 #20
81	240.00	8.45	2284.00	2956.00	2620.00	49	o77240 #1
82	240.00	11.29	2284.00	2956.00	2620.00	49	o77240 #2
83	240.00	22.65	2284.00	2956.00	2620.00	49	o77240 #3
84	240.00	49.63	2284.00	2956.00	2620.00	49	o77240 #4
85	240.00	77.32	2284.00	2956.00	2620.00	49	o77240 #5
86	240.00	8.45	4256.00	5504.00	4880.00	49	o77240 #6
87	240.00	11.29	4256.00	5504.00	4880.00	49	o77240 #7
88	240.00	22.65	4256.00	5504.00	4880.00	49	o77240 #8
89	240.00	49.63	4256.00	5504.00	4880.00	49	o77240 #9
90	240.00	77.32	4256.00	5504.00	4880.00	49	o77240 #10
91	240.00	8.45	6162.00	7938.00	7050.00	49	o77240 #11
92	240.00	11.29	6162.00	7938.00	7050.00	49	o77240 #12
93	240.00	22.65	6162.00	7938.00	7050.00	49	o77240 #13
94	240.00	49.63	6162.00	7938.00	7050.00	49	o77240 #14
95	240.00	77.32	6162.00	7938.00	7050.00	49	o77240 #15
96	240.00	8.45	9280.00	11920.00	10600.00	49	o77240 #16
97	240.00	11.29	9280.00	11920.00	10600.00	49	o77240 #17
98	240.00	22.65	9280.00	11920.00	10600.00	49	o77240 #18
99	240.00	49.63	9280.00	11920.00	10600.00	49	o77240 #19
100	240.00	77.32	9280.00	11920.00	10600.00	49	o77240 #20

Summary of Select Data Files

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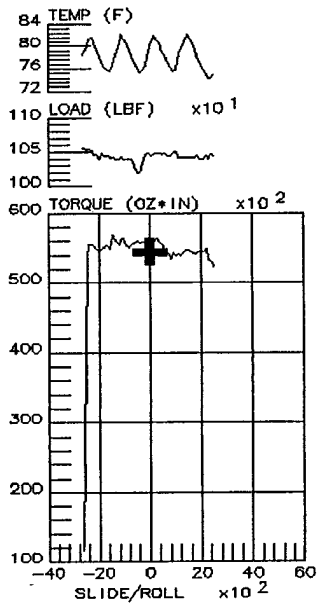
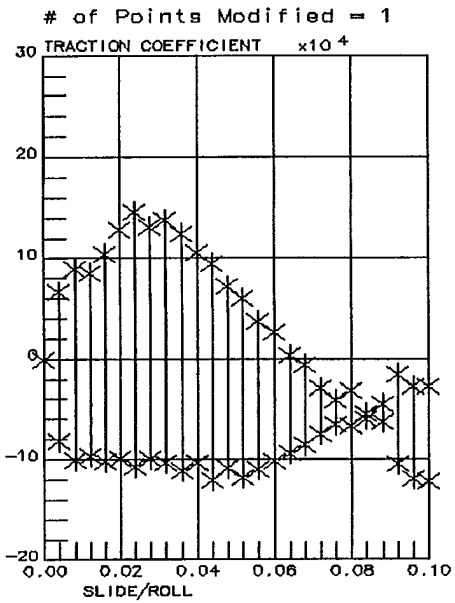
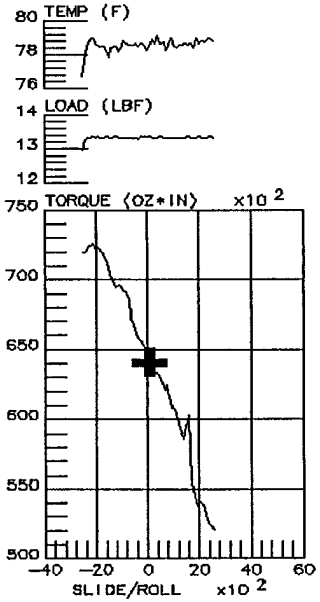
ai3.dat	79.00	7050.00	14	15
ai4.dat	79.00	10600.00	19	20
ai5.dat	120.00	2620.00	24	25
ai6.dat	120.00	4880.00	29	30
ai7.dat	120.00	7050.00	34	35
ai8.dat	120.00	10600.00	39	40
ai9.dat	159.00	2620.00	44	45
ai10.dat	159.00	4880.00	49	50
ai11.dat	159.00	7050.00	54	55
ai12.dat	159.00	10600.00	59	60
ai13.dat	200.00	2620.00	64	65
ai14.dat	200.00	4880.00	69	70
ai15.dat	200.00	7050.00	74	75
ai16.dat	200.00	10600.00	79	80
ai17.dat	240.00	2620.00	84	85
ai18.dat	240.00	4880.00	89	90
ai19.dat	240.00	7050.00	94	95
ai20.dat	240.00	10600.00	99	100

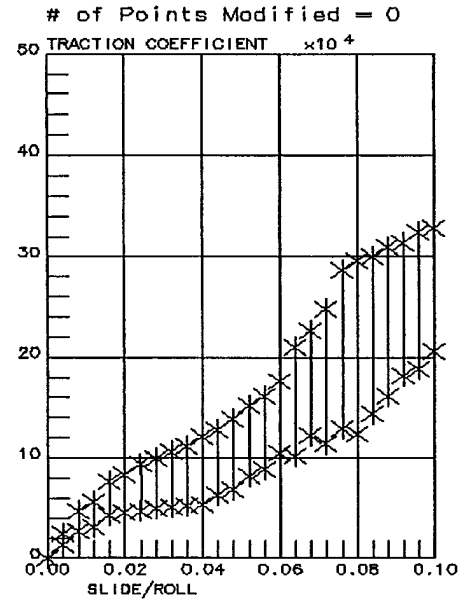
AI 85-42 PropLab #079-16 MIL-L-7808 #1
79F 8LBF 2620RPM 1 FILE: o77079



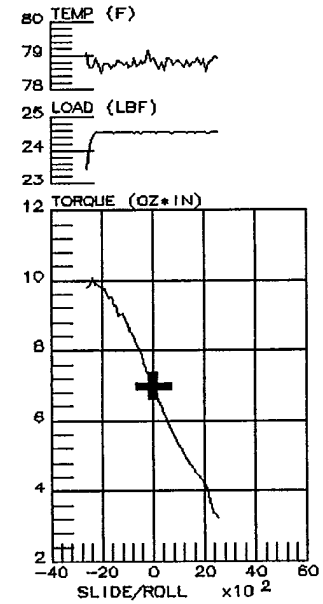


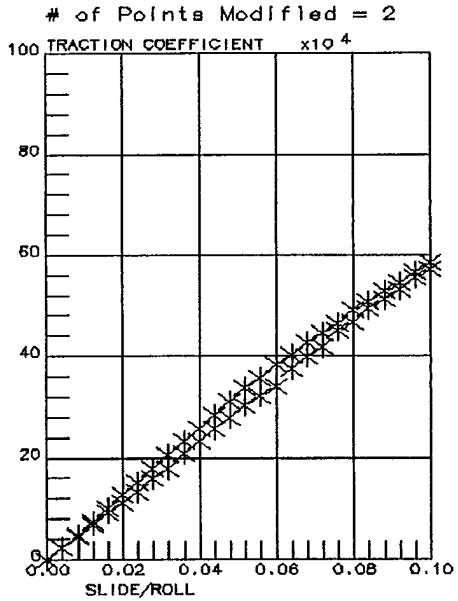
AI 85-42 PropLab #079-16 MIL-L-7808 #2
79F 11LBF 2620RPM 2 FILE: o77079



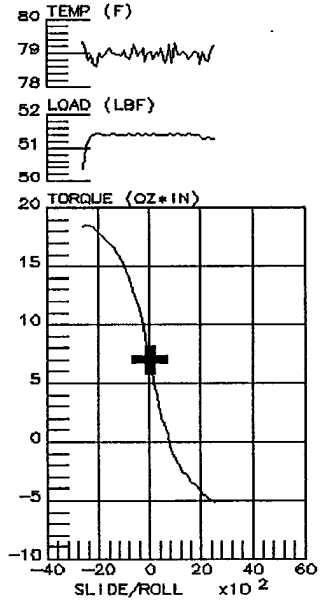


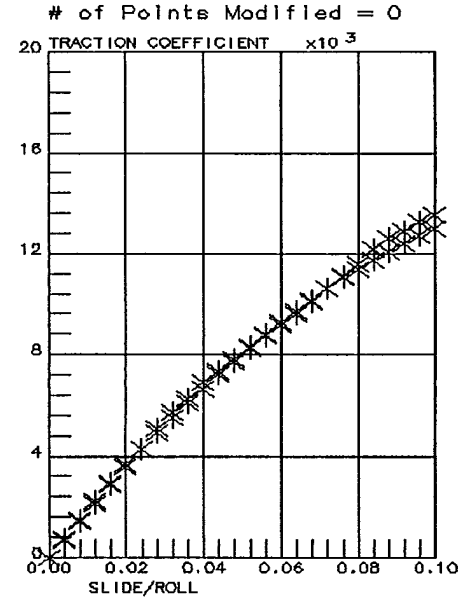
AI 85-42 PropLab #079-16 MIL-L-7808 #3
79F 23LBF 2620RPM 3 FILE: o77079



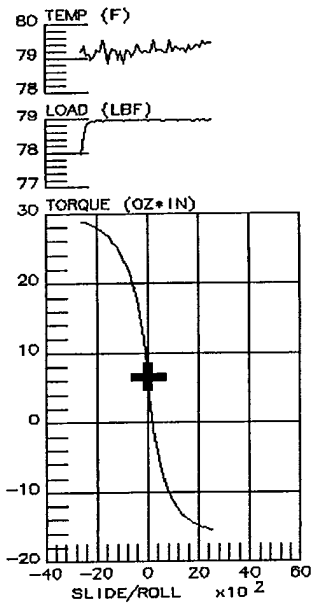


AI 85-42 PropLab #079-16 MIL-L-7808 #4
79F 50LBF 2620RPM 4 FILE: o77079





AI 85-42 PropLab #079-16 MIL-L-7808 #5
79F 77LBF 2620RPM 5 FILE: o77079



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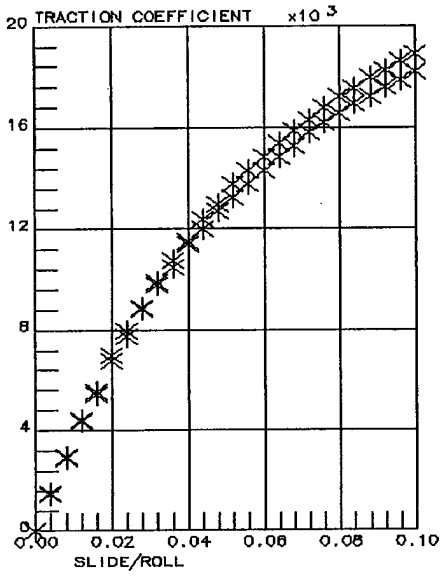
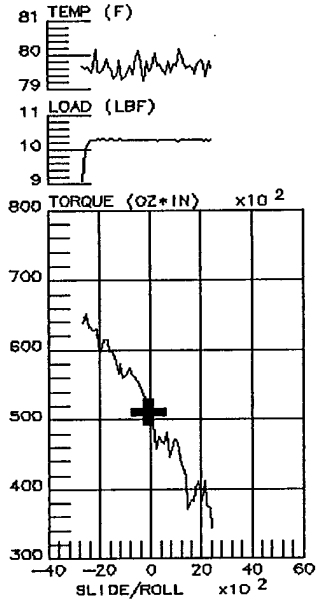


AI 85-42 PropLab #079-16 MIL-L-7808 #6
79F 8LBF 4880RPM 6 FILE: o77079



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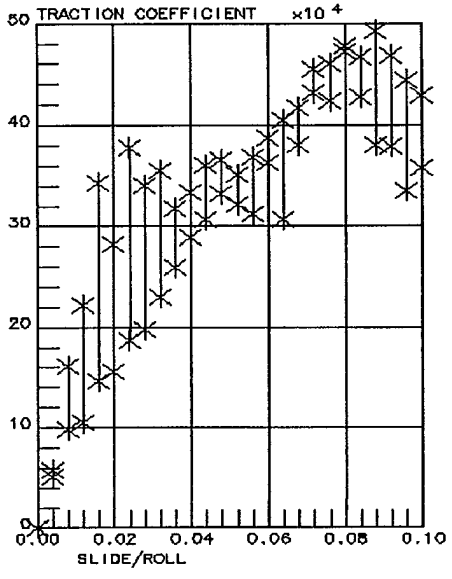
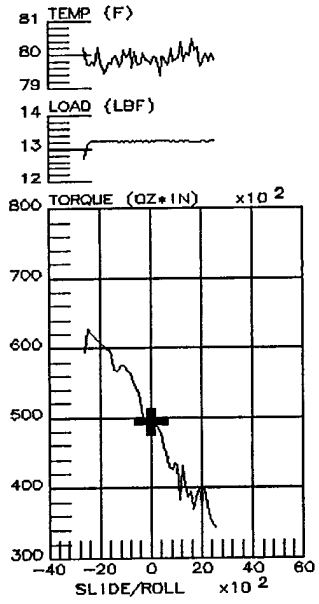


AI 85-42 PropLab #079-16 MIL-L-7808 #7
79F 11LBF 4880RPM 7 FILE: o77079



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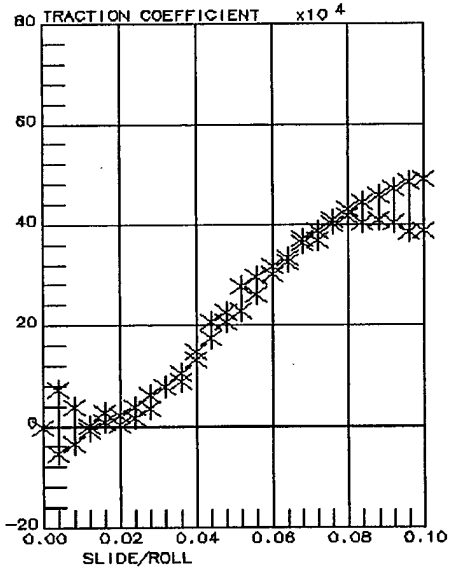
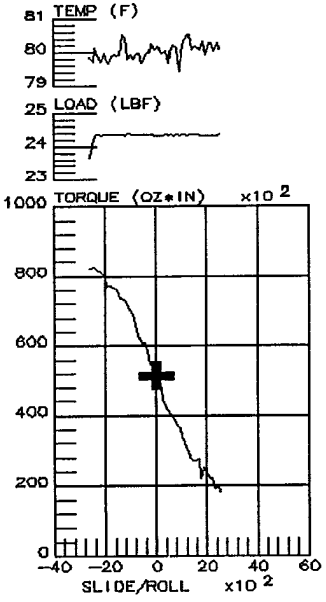


AI 85-42 PropLab #079-16 MIL-L-7808 #8
79F 23LBF 4880RPM 8 FILE: o77079



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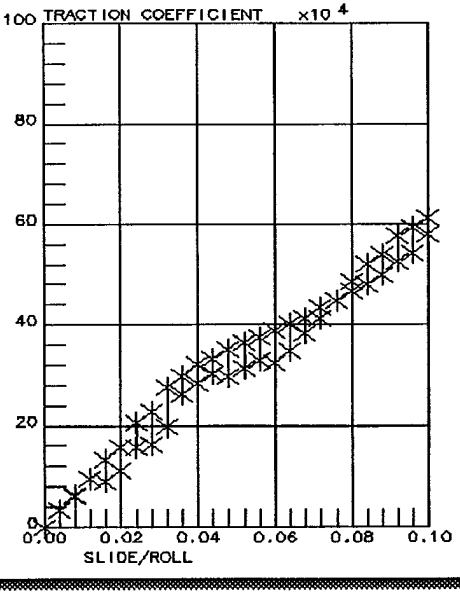
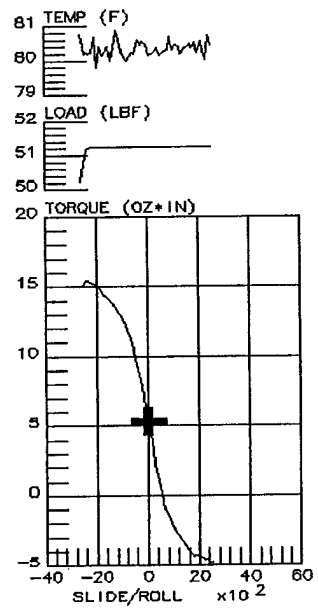


AI 85-42 PropLab #079-16 MIL-L-7808 #9
79F 50LBF 4880RPM 9 FILE: o77079



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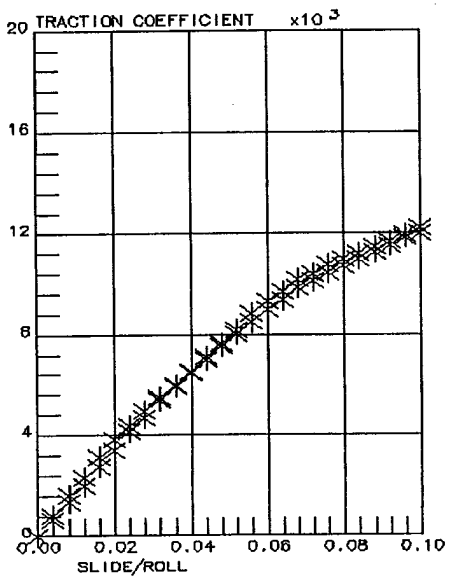
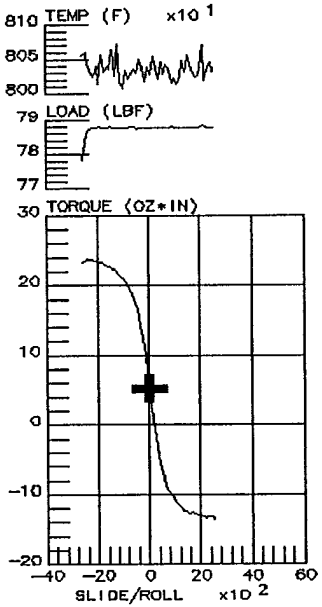


AI 85-42 PropLab #079-16 MIL-L-7808 #10
79F 77LBF 4880RPM 10 FILE: o77079



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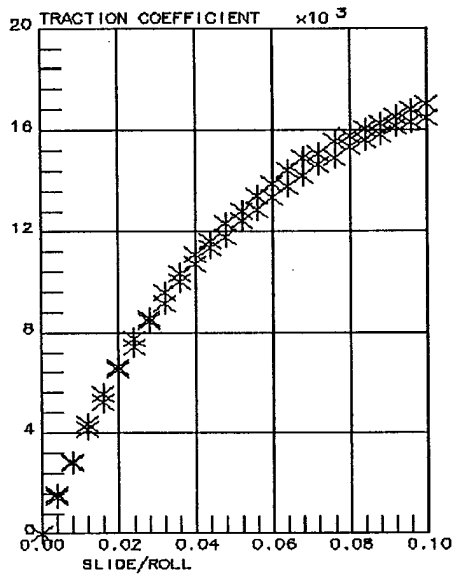
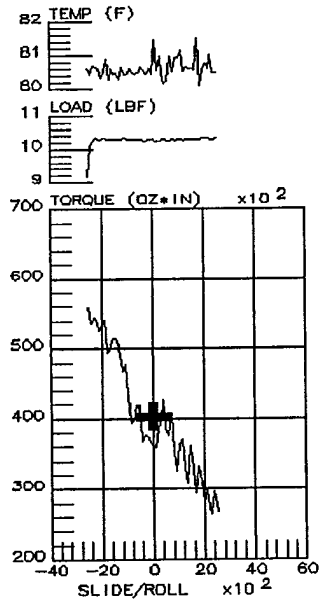


AI 85-42 PropLab #079-16 MIL-L-7808 #11
79F 81LBF 7050RPM 11 FILE: o77079



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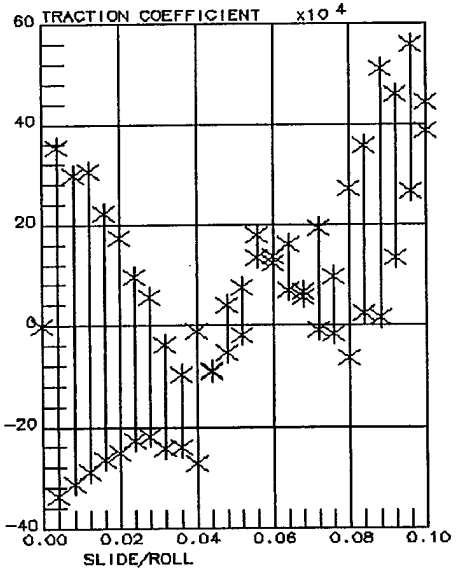
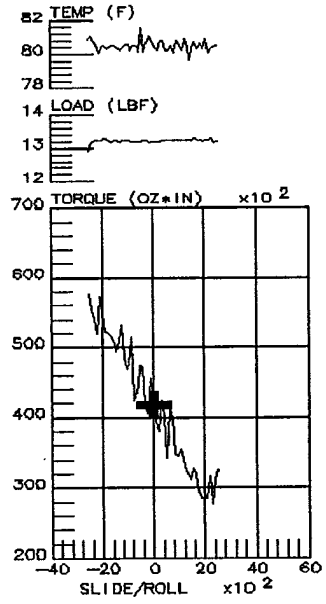


AI 85-42 PropLab #079-16 MIL-L-7808 #12
79F 11LBF 7050RPM 12 FILE: o77079



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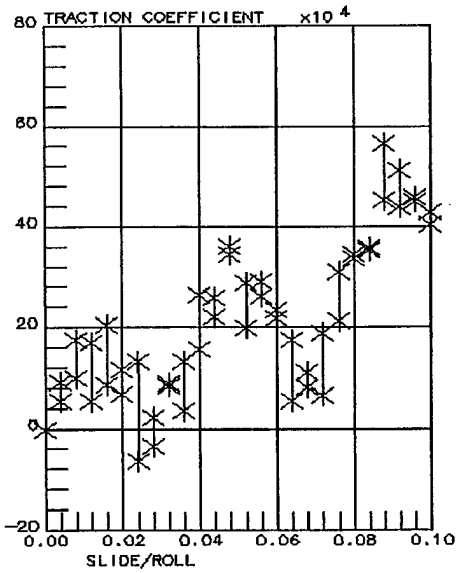
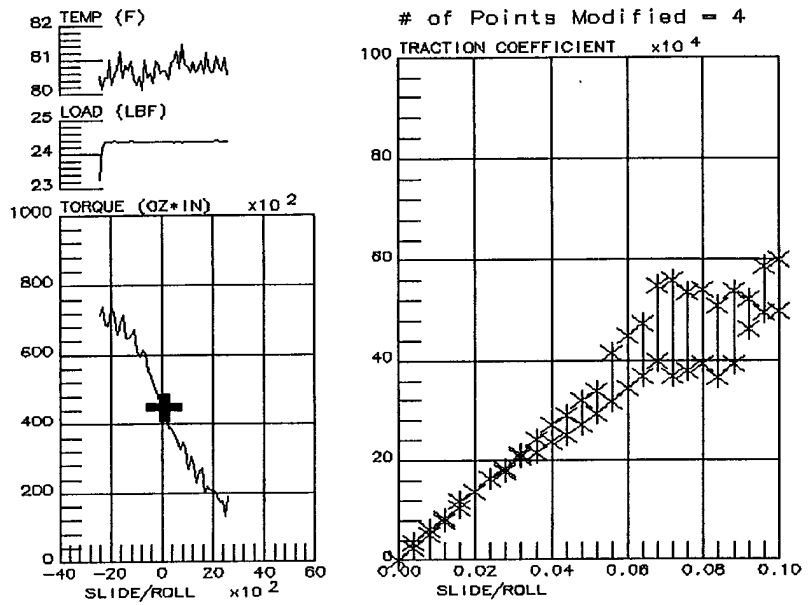
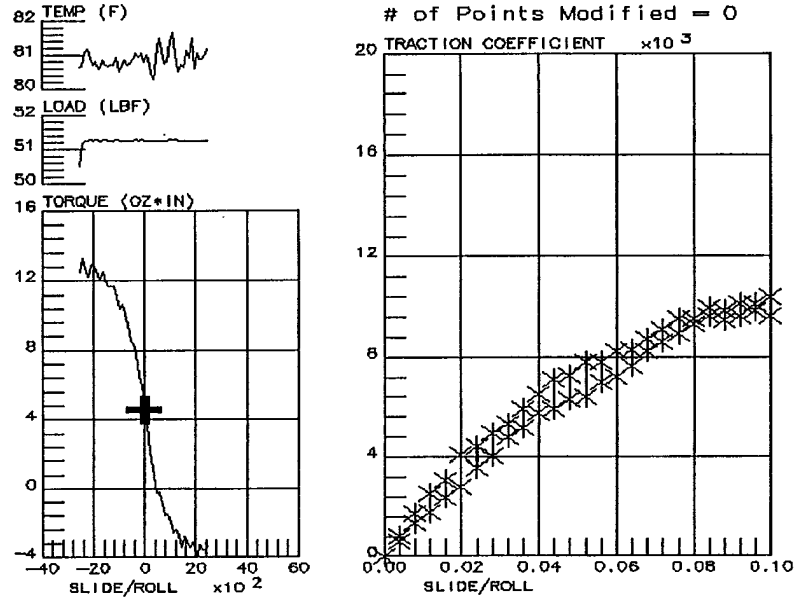


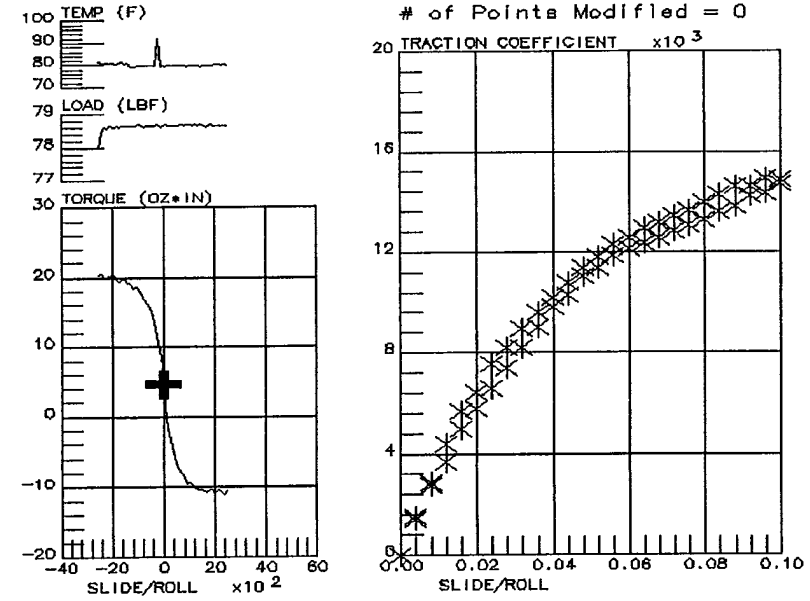
AI 85-42 PropLab #079-16 MIL-L-7808 #13
79F 23LBF 7050RPM 13 FILE: o77079



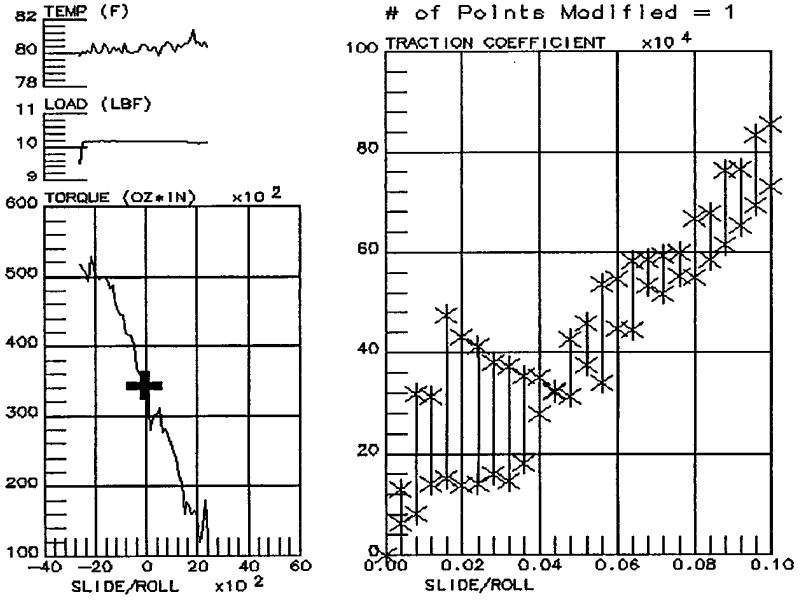
AI 85-42 PropLab #079-16 MIL-L-7808 #14
79F 50LBF 7050RPM 14 FILE: o77079



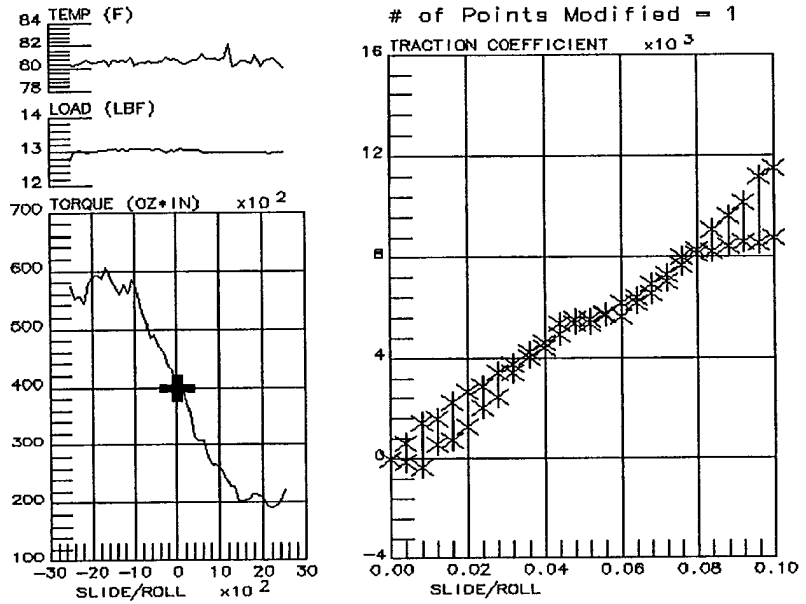
AI 85-42 PropLab #079-16 MIL-L-7808 #15
79F 77LBF 7050RPM 15 FILE: o77079



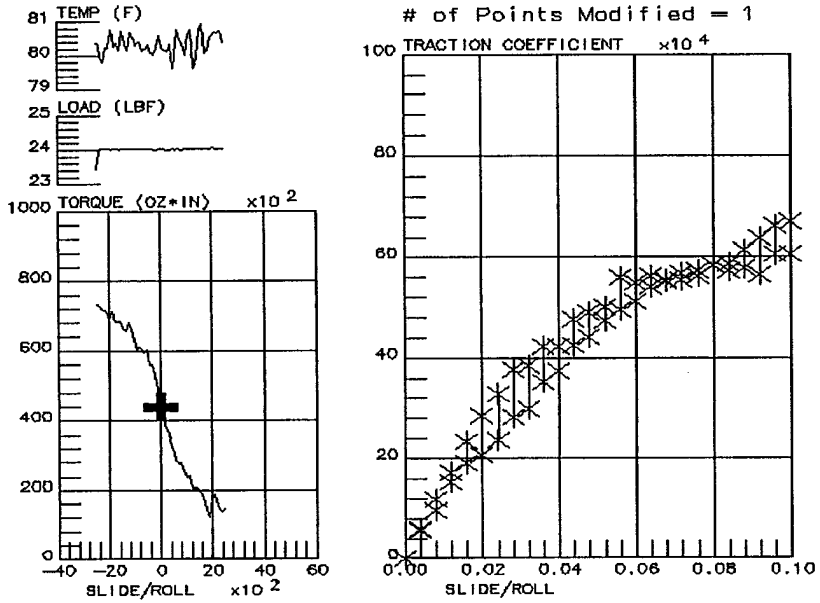
AI 85-42 PropLab #079-16 MIL-L-7808 #16
79F 8LBF 10600RPM 16 FILE: o77079



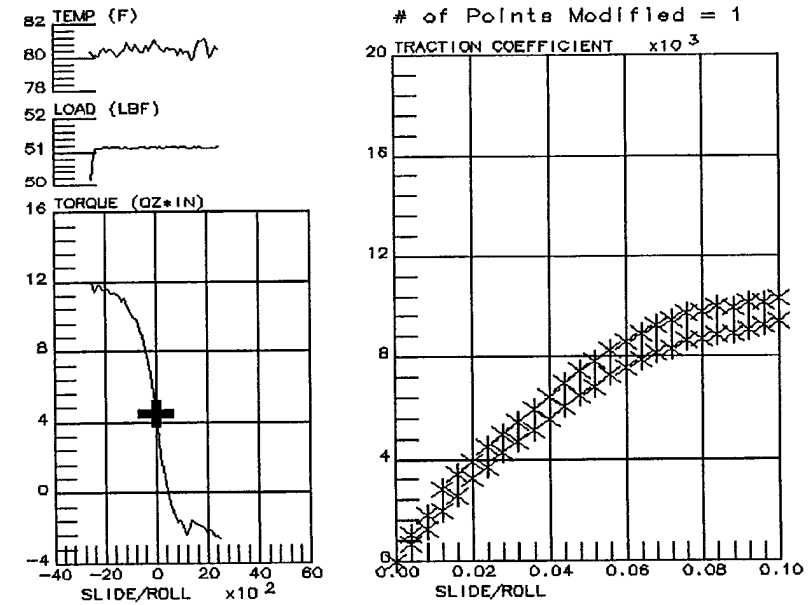
AI 85-42 PropLab #079-16 MIL-L-7808 #17
79F 11LBF 10600RPM 17 FILE: o77079



AI 85-42 PropLab #079-16 MIL-L-7808 #18
79F 23LBF 10600RPM 18 FILE: o77079



AI 85-42 PropLab #079-16 MIL-L-7808 #19
79F 50LBF 10600RPM 19 FILE: o77079



AI 85-42 PropLab #079-16 MIL-L-7808 #20
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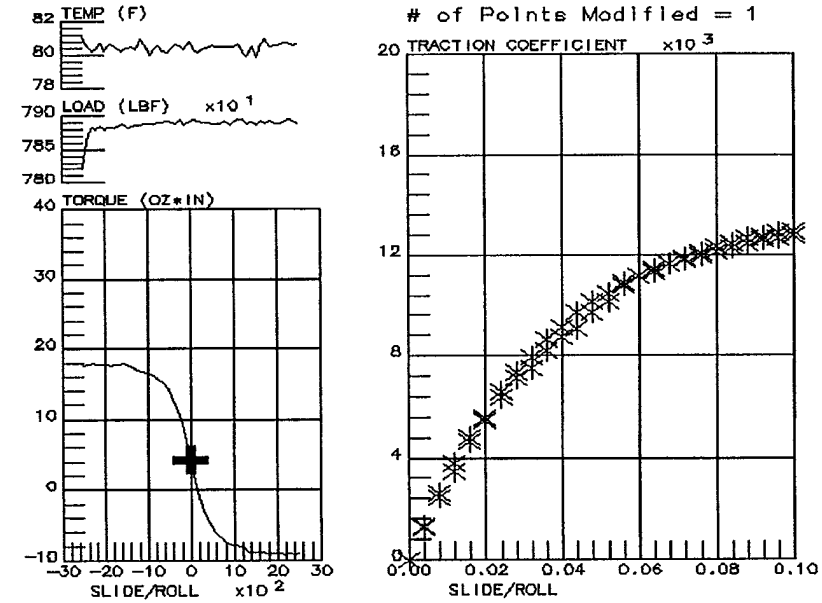
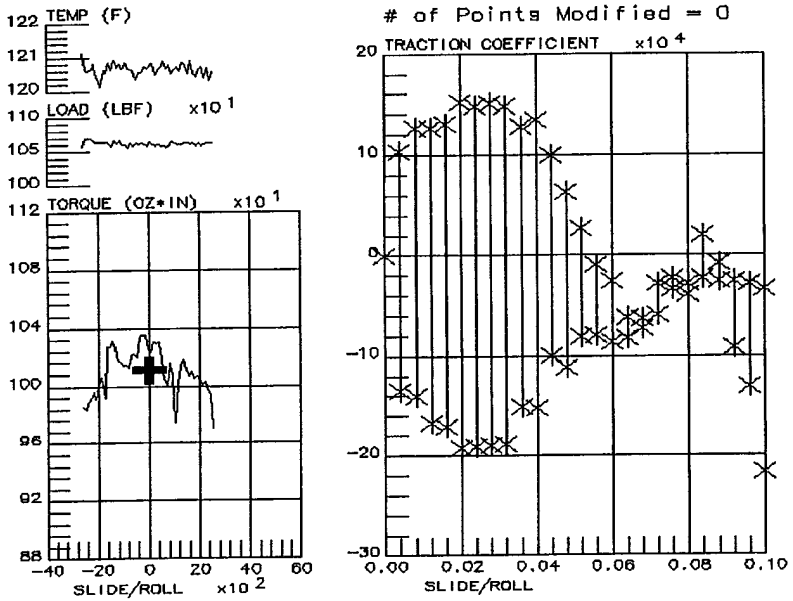
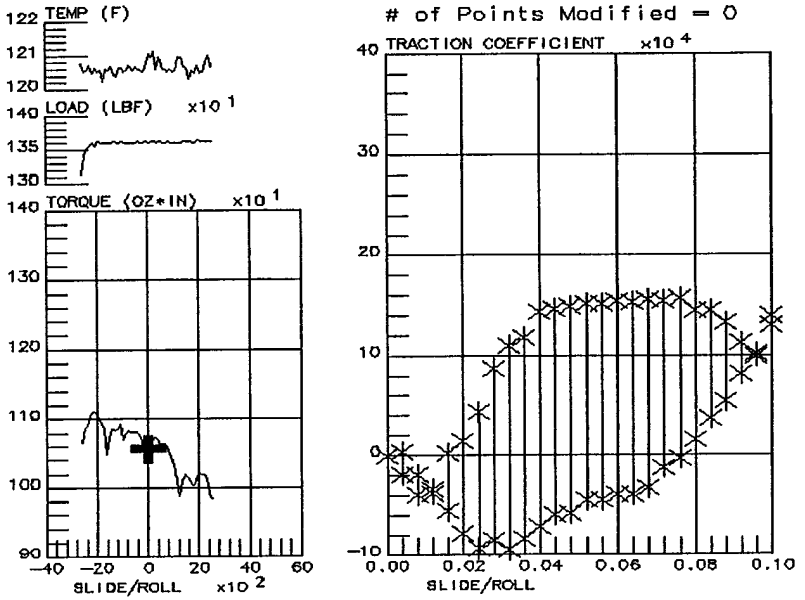


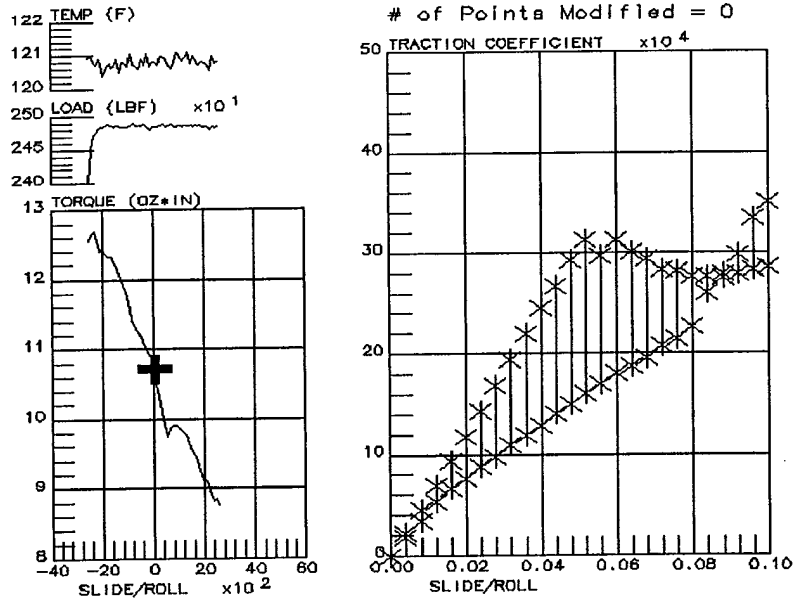
AI 85-42 PropLab #079-16 MIL-L-7808 #21
120F 8LBF 2620RPM 1 FILE: o77120



AI 85-42 PropLab #079-16 MIL-L-7808 #22
120F 11LBF 2620RPM 2 FILE: o77120



AI 85-42 PropLab #079-16 MIL-L-7808 #23
120F 23LBF 2620RPM 3 FILE: o77120



AI 85-42 PropLab #079-16 MIL-L-7808 #24
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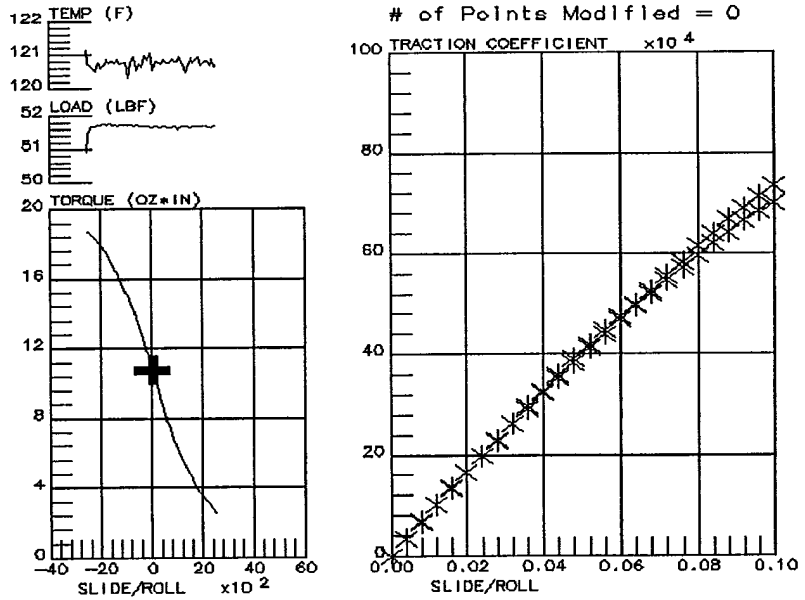
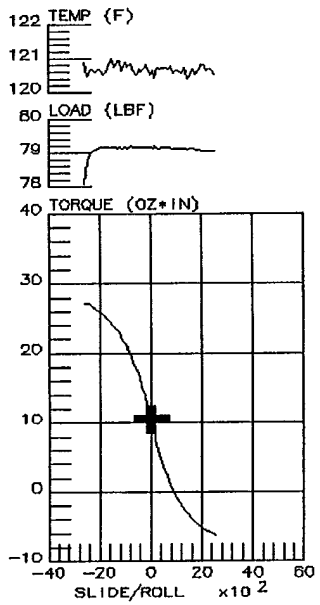


AI 85-42 PropLab #079-16 MIL-L-7808 #25
120F 77LBF 2620RPM 5 FILE: o77120



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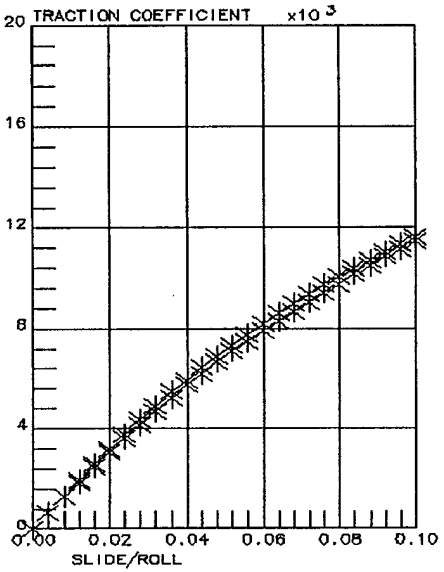
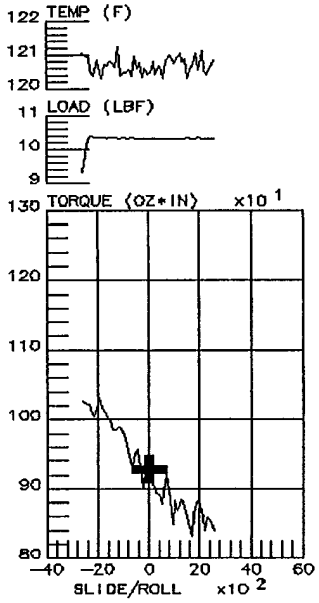


AI 85-42 PropLab #079-16 MIL-L-7808 #26
120F 8LBF 4880RPM 6 FILE: o77120



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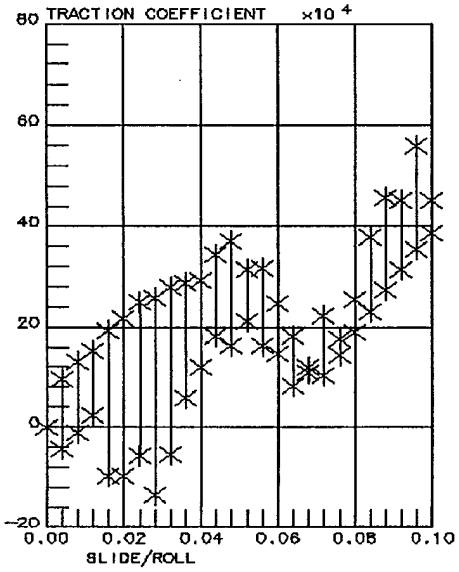
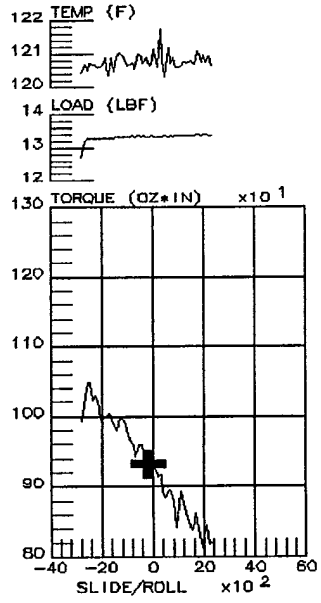


AI 85-42 PropLab #079-16 MIL-L-7808 #27
120F 11LBF 4880RPM 7 FILE: o77120



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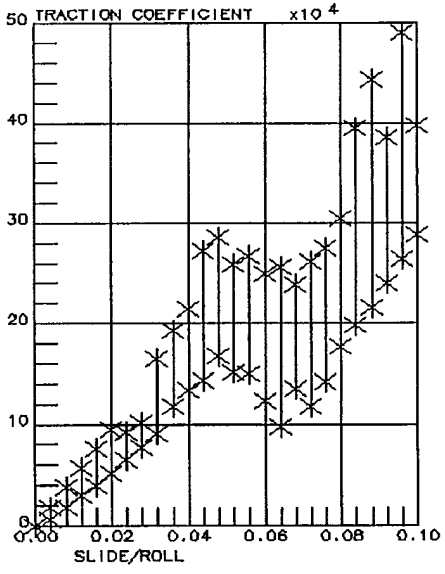
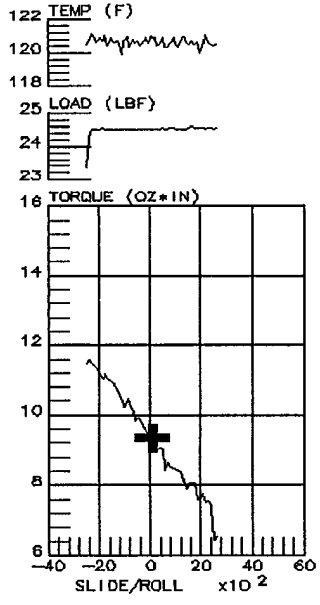


AI 85-42 PropLab #079-16 MIL-L-7808 #28
120F 23LBF 4880RPM 8 FILE: o77120



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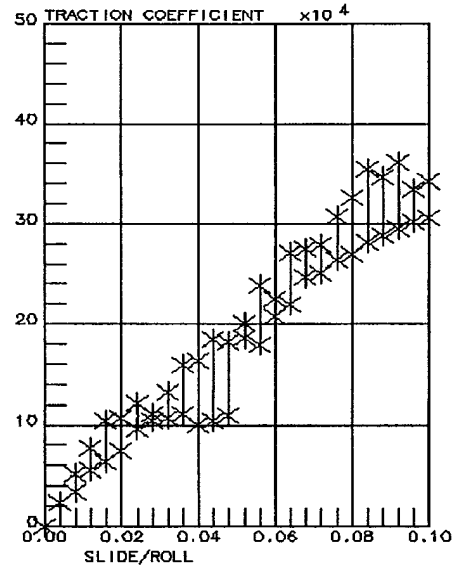
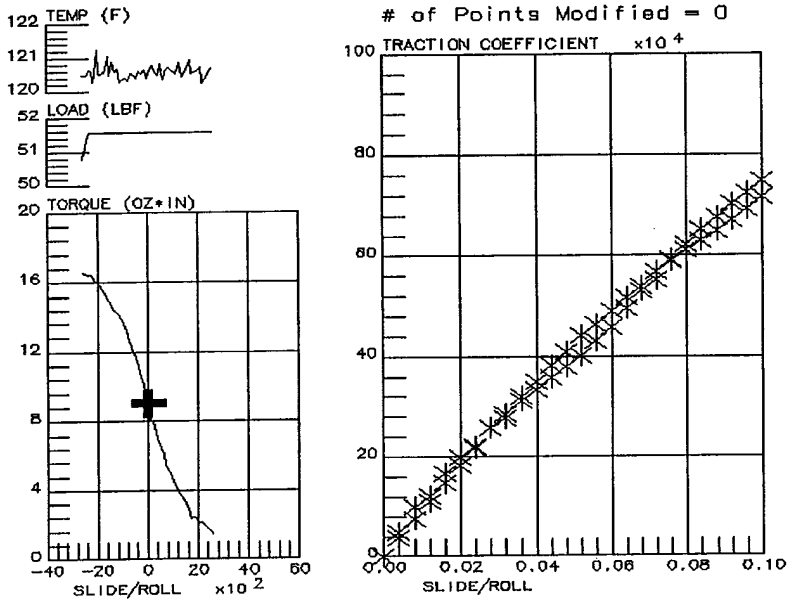


AI 85-42 PropLab #079-16 MIL-L-7808 #29
120F 50LBF 4880RPM 9 FILE: o77120



AI 85-42 PropLab #079-16 MIL-L-7808 #30
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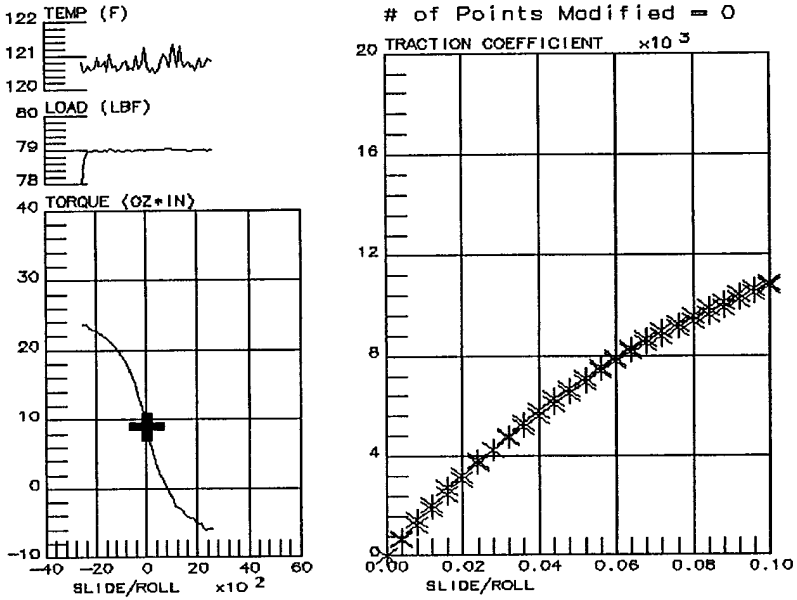
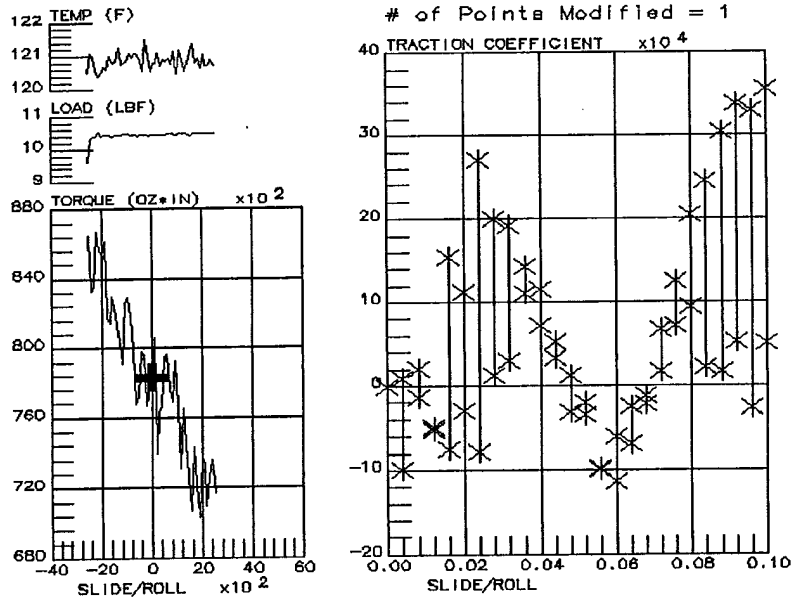
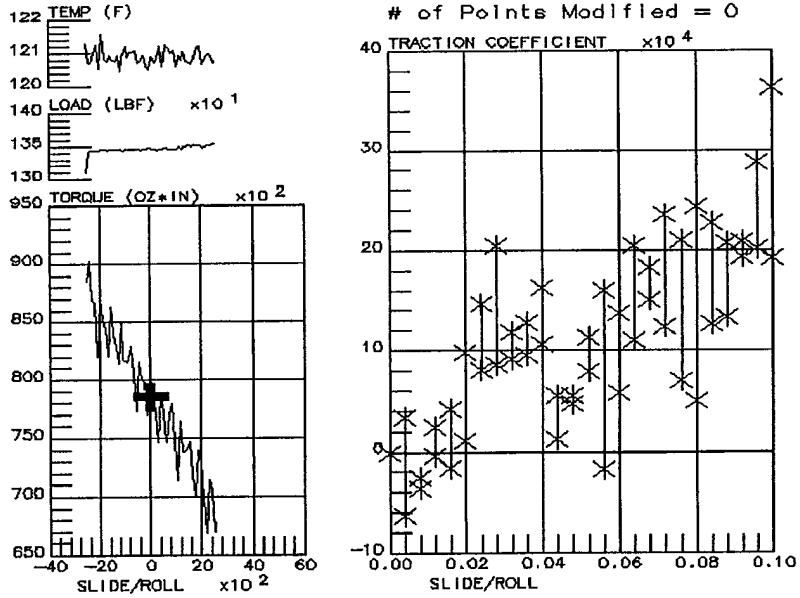


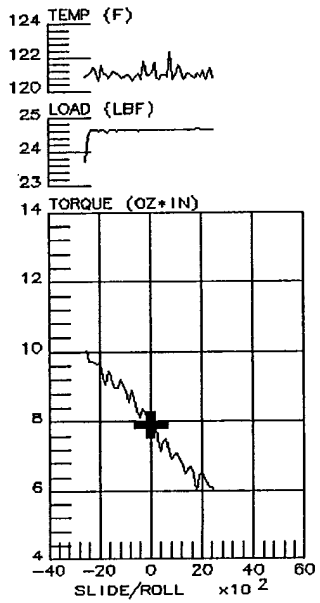
AI 85-42 PropLab #079-16 MIL-L-7808 #31
120F 8LBF 7050RPM 11 FILE: o77120



AI 85-42 PropLab #079-16 MIL-L-7808 #32
120F 11LBF 7050RPM 12 FILE: o77120



AI 85-42 PropLab #079-16 MIL-L-7808 #33
120F 23LBF 7050RPM 13 FILE: o77120



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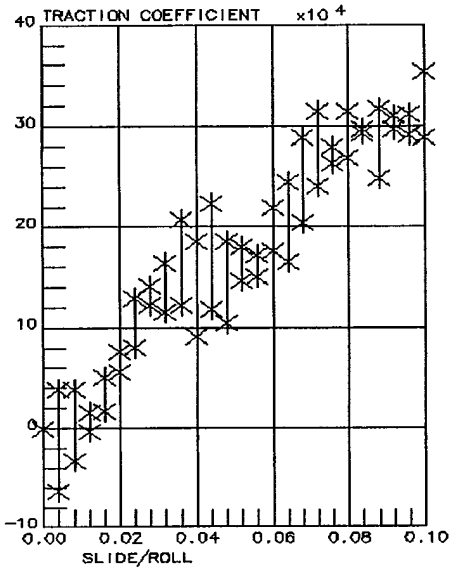
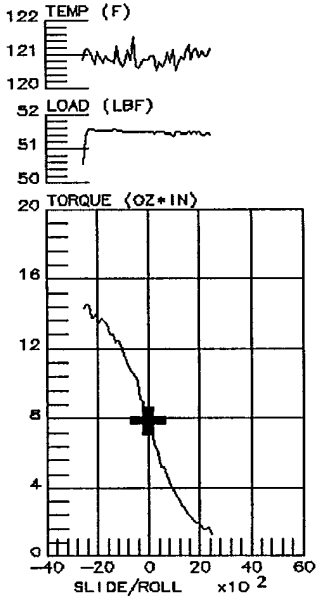


AI 85-42 PropLab #079-16 MIL-L-7808 #34
120F 50LBF 7050RPM 14 FILE: o77120



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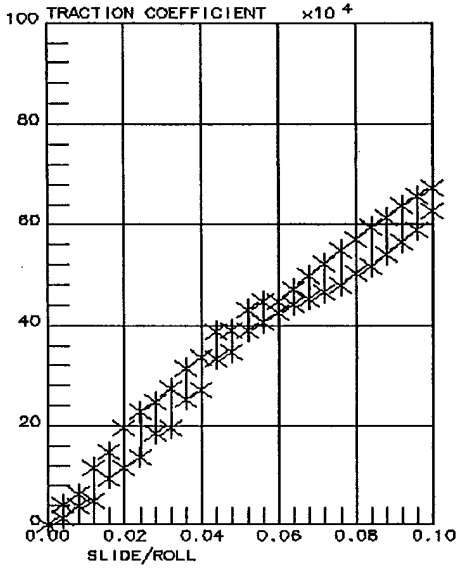
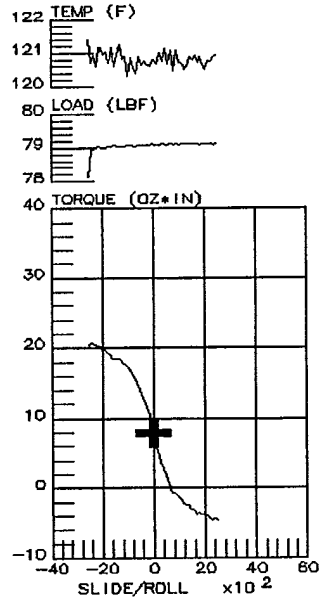


AI 85-42 PropLab #079-16 MIL-L-7808 #35
120F 77LBF 7050RPM 15 FILE: o77120



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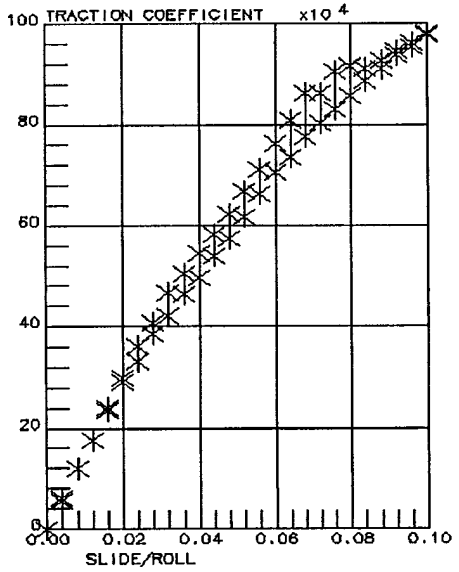
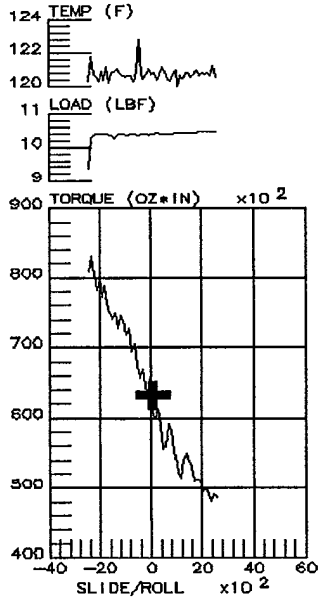


AI 85-42 PropLab #079-16 MIL-L-7808 #36
120F 8LBF 10600RPM 16 FILE: o77120



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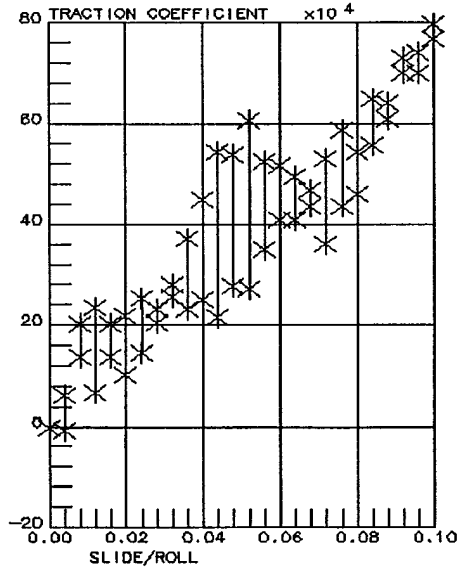
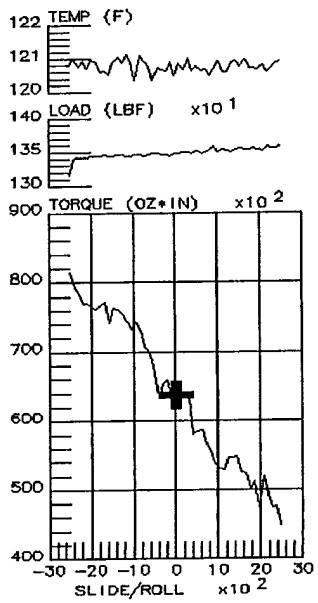


AI 85-42 PropLab #079-16 MIL-L-7808 #37
120F 11LBF 10600RPM 17 FILE: o77120



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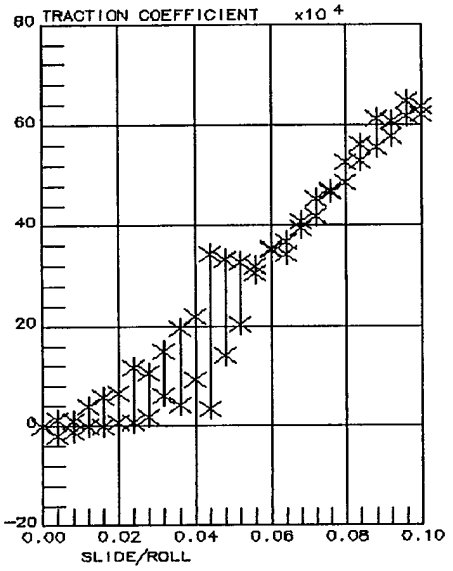
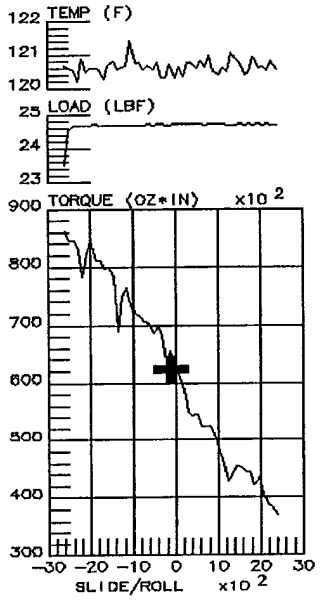


AI 85-42 PropLab #079-16 MIL-L-7808 #38
120F 23LBF 10600RPM 18 FILE: o77120



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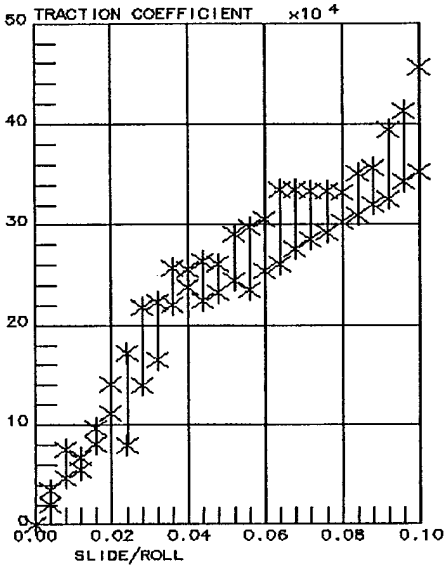
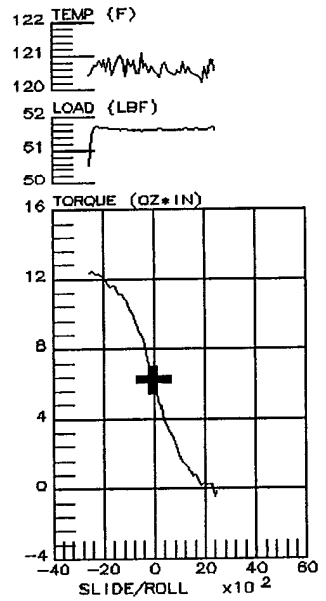


AI 85-42 PropLab #079-16 MIL-L-7808 #39
120F 50LBF 10600RPM 19 FILE: o77120



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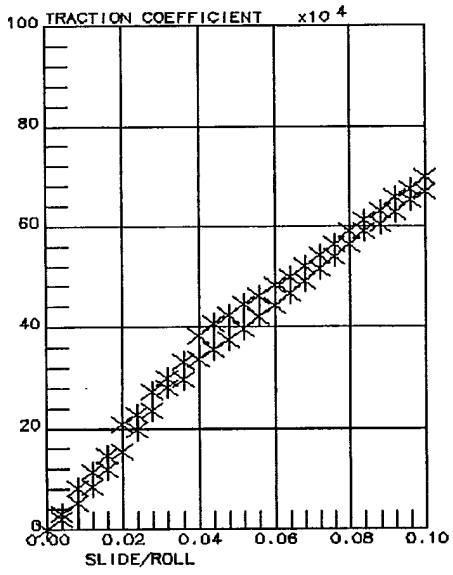
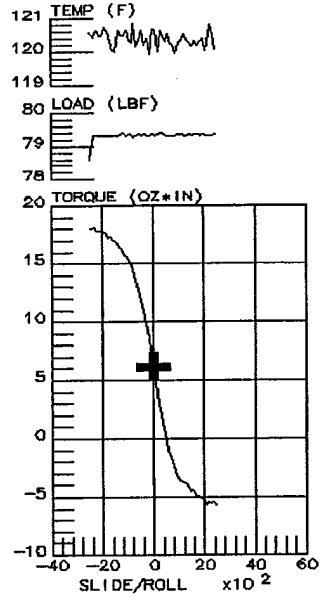


AI 85-42 PropLab #079-16 MIL-L-7808 #40
120F 77LBF 10600RPM 20 FILE: o77120



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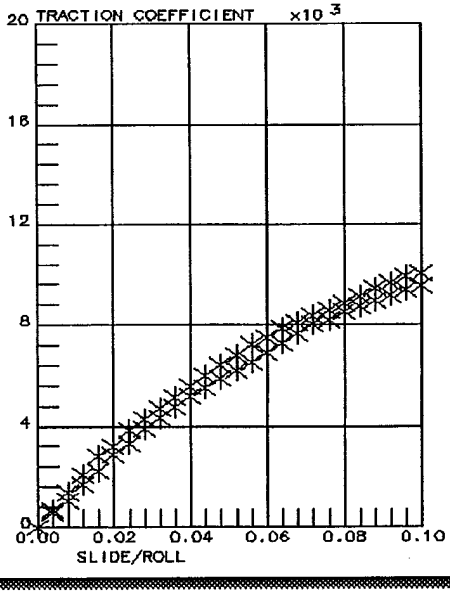
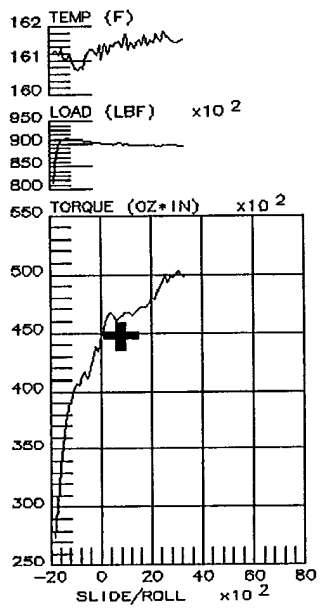
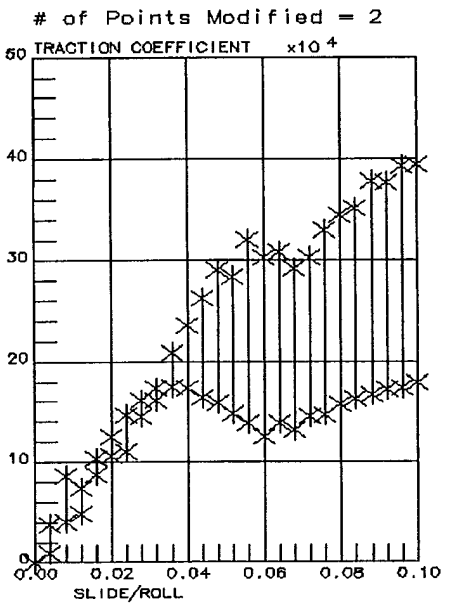
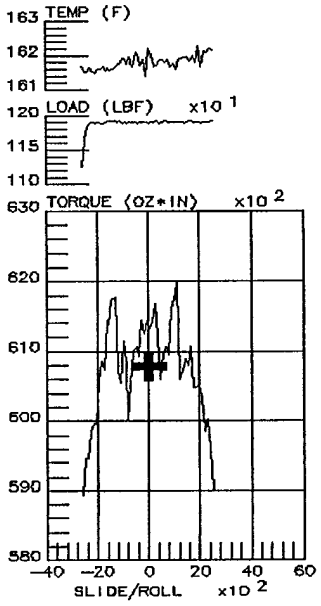


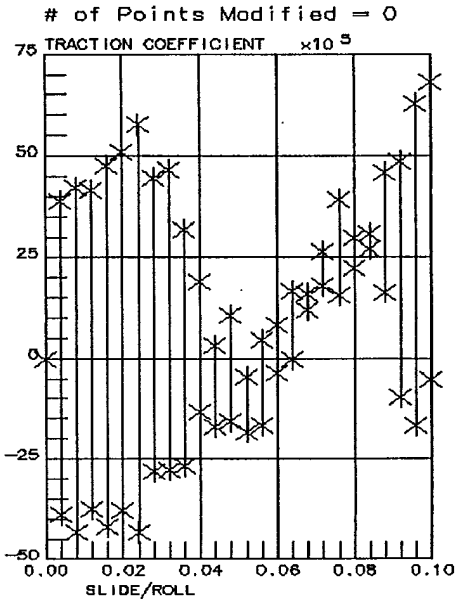
AI 85-42 PropLab #079-16 MIL-L-7808 #41
159F 8LBF 2620RPM 1 FILE: o77159



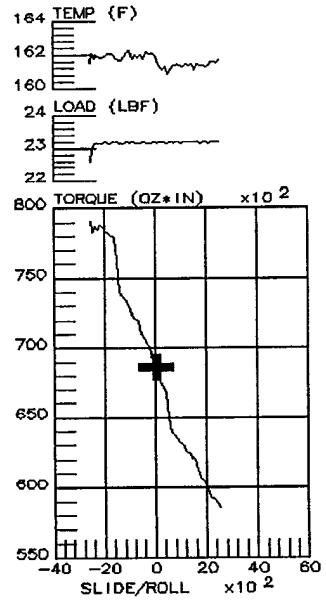


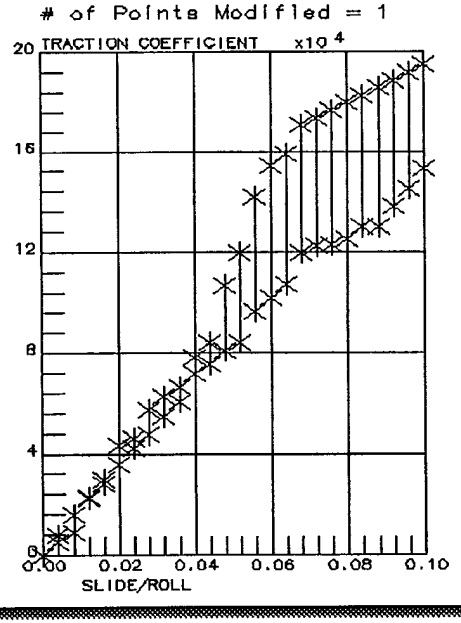
AI 85-42 PropLab #079-16 MIL-L-7808 #42
159F 11LBF 2620RPM 2 FILE: o77159



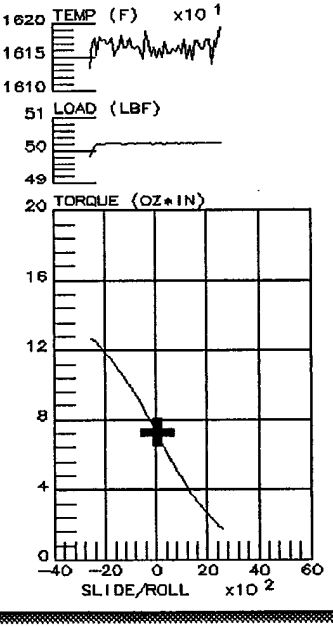


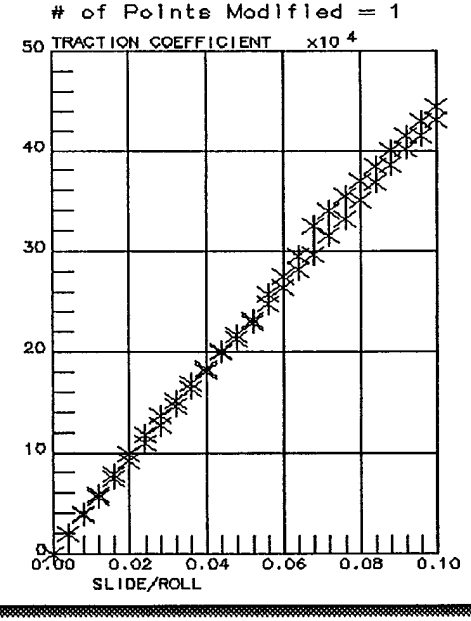
AI 85-42 PropLab #079-16 MIL-L-7808 #43
159F 23LBF 2620RPM 3 FILE: o77159



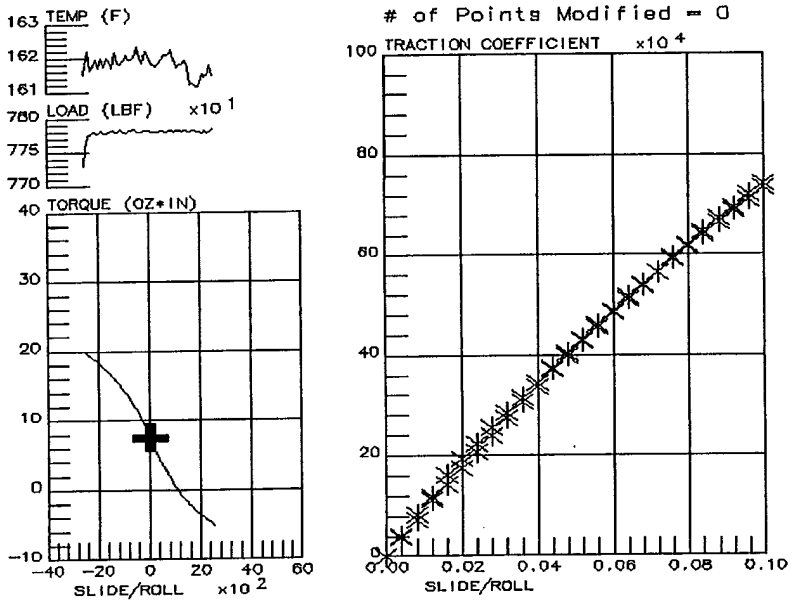


AI 85-42 PropLab #079-16 MIL-L-7808 #44
159F 50LBF 2620RPM 4 FILE: o77159

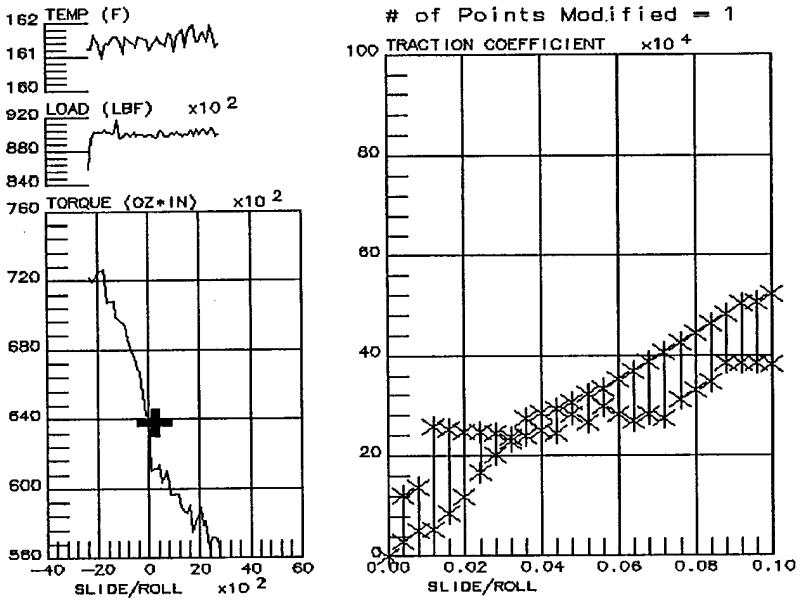




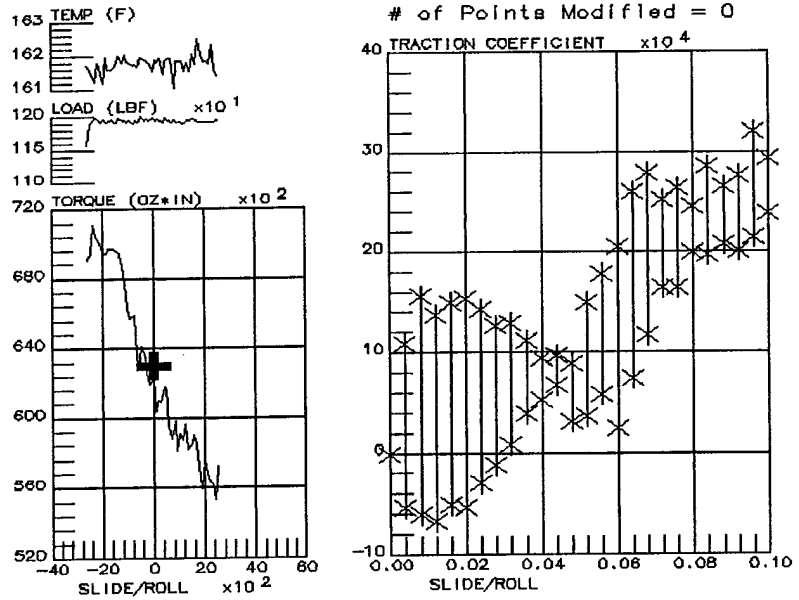
AI 85-42 PropLab #079-16 MIL-L-7808 #45
159F 77LBF 2620RPM 5 FILE: o77159



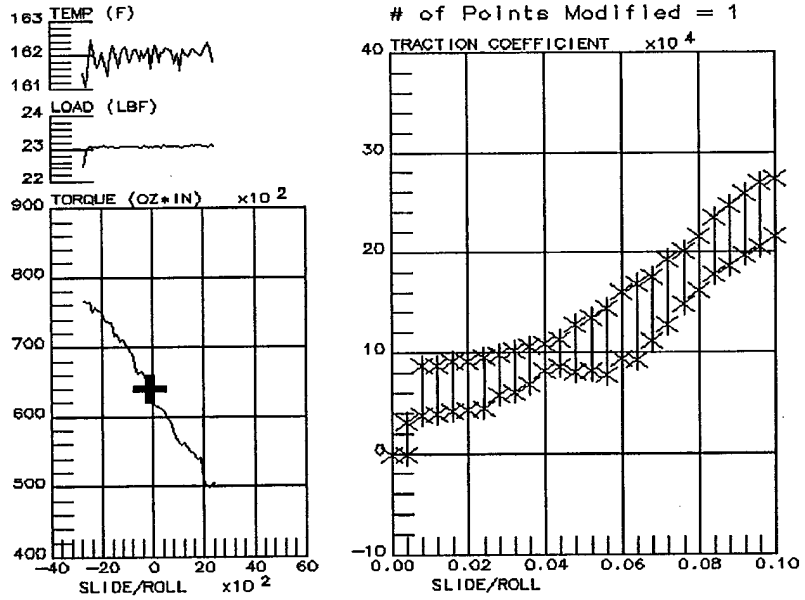
AI 85-42 PropLab #079-16 MIL-L-7808 #46
159F 8LBF 4880RPM 6 FILE: o77159



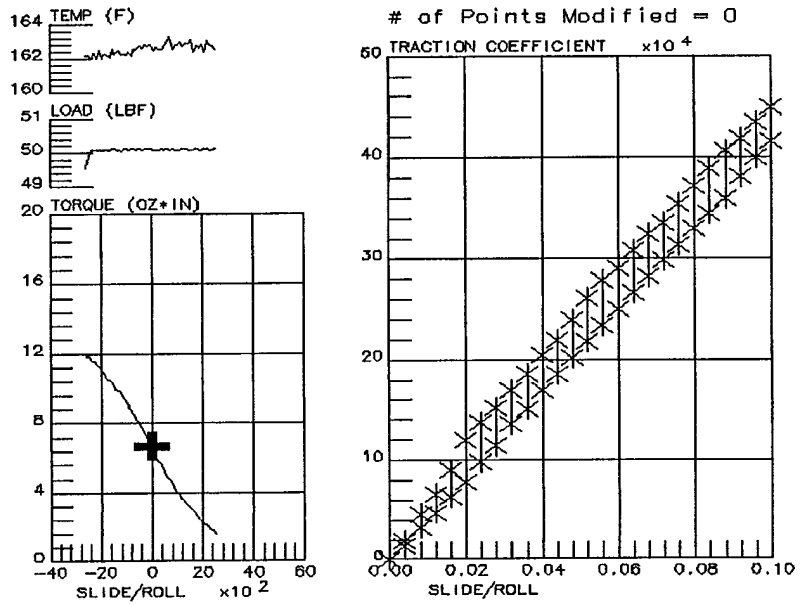
AI 85-42 PropLab #079-16 MIL-L-7808 #47
159F 11LBF 4880RPM 7 FILE: o77159



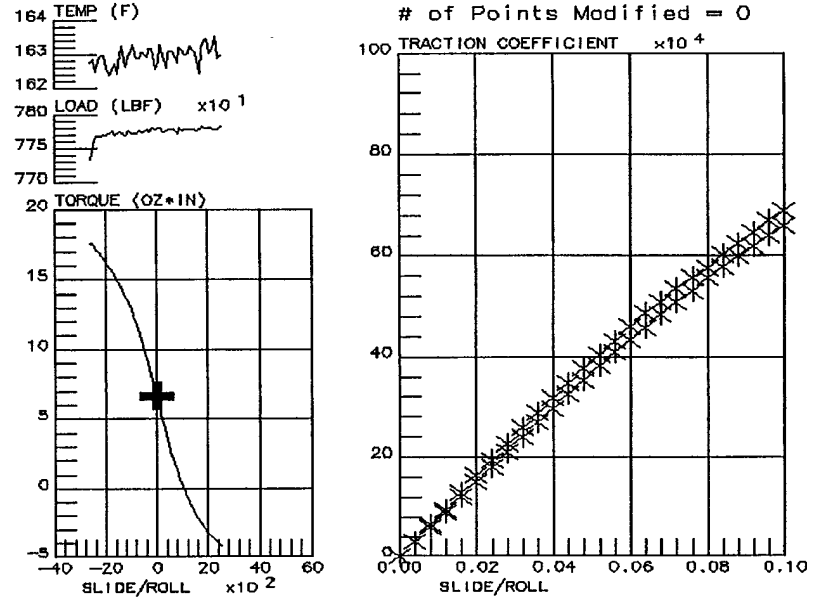
AI 85-42 PropLab #079-16 MIL-L-7808 #48
159F 23LBF 4880RPM 8 FILE: o77159



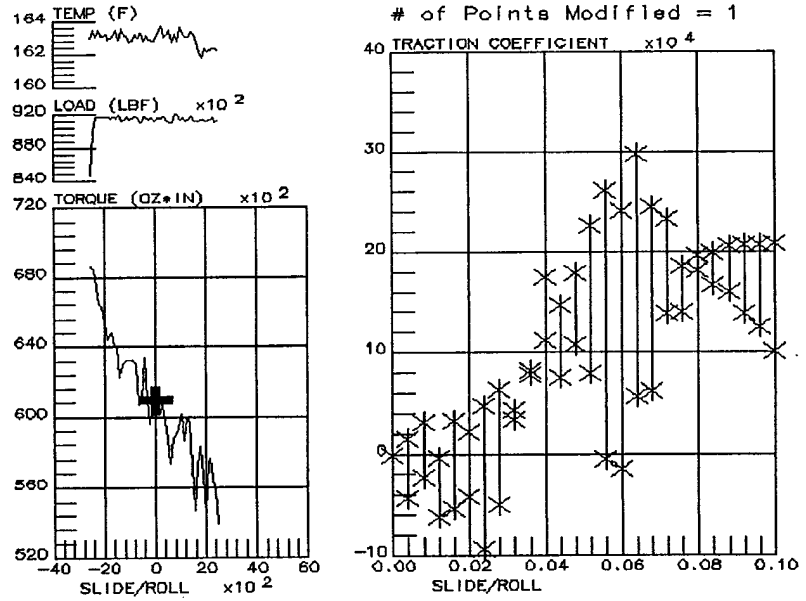
AI 85-42 PropLab #079-16 MIL-L-7808 #49
159F 50LBF 4880RPM 9 FILE: o77159



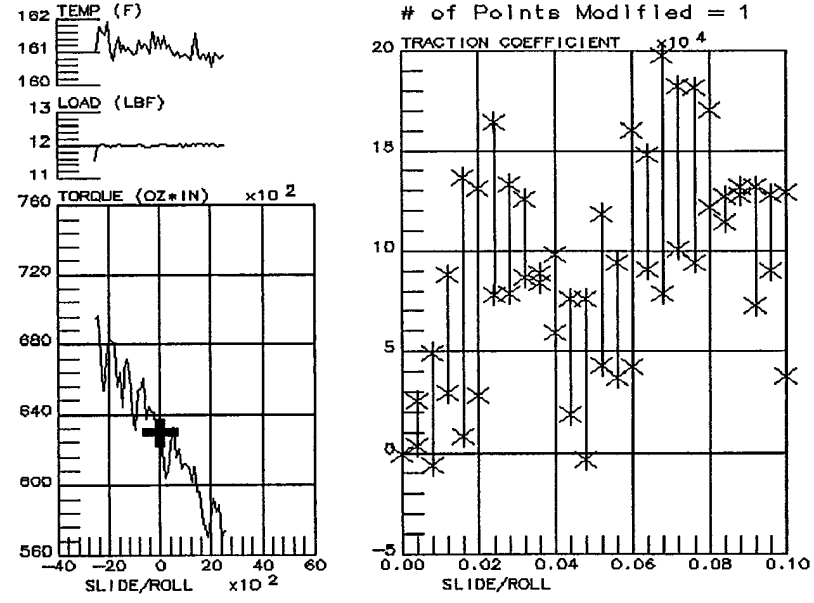
AI 85-42 PropLab #079-16 MIL-L-7808 #50
159F 77LBF 4880RPM 10 FILE: o77159



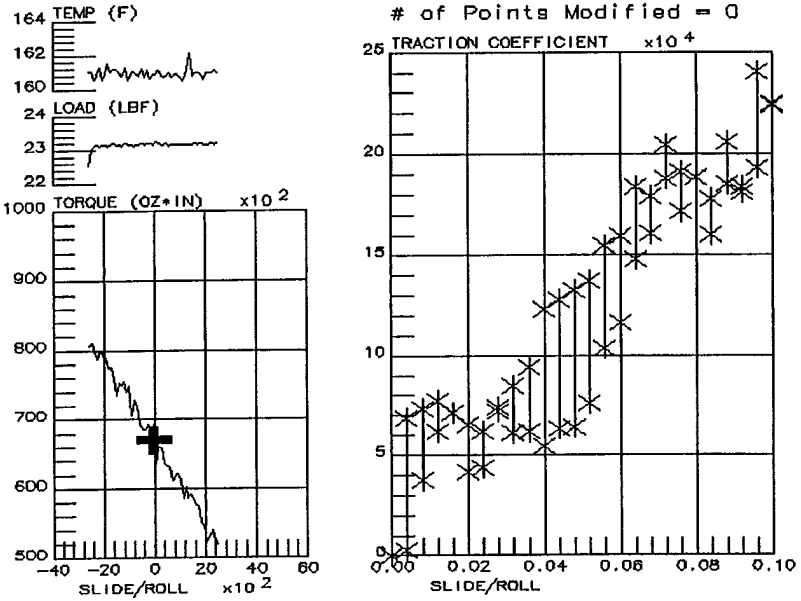
AI 85-42 PropLab #079-16 MIL-L-7808 #51
159F 8LBF 7050RPM 11 FILE: o77159



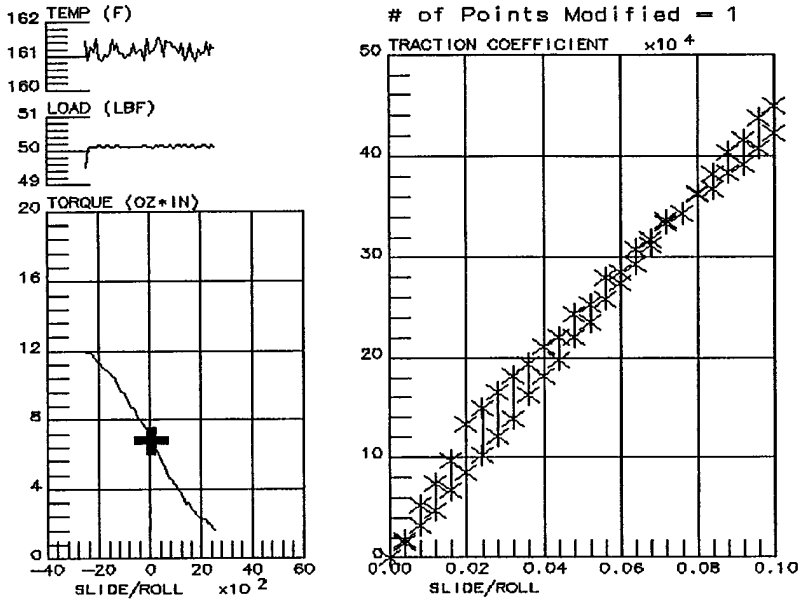
AI 85-42 PropLab #079-16 MIL-L-7808 #52
159F 11LBF 7050RPM 12 FILE: o77159



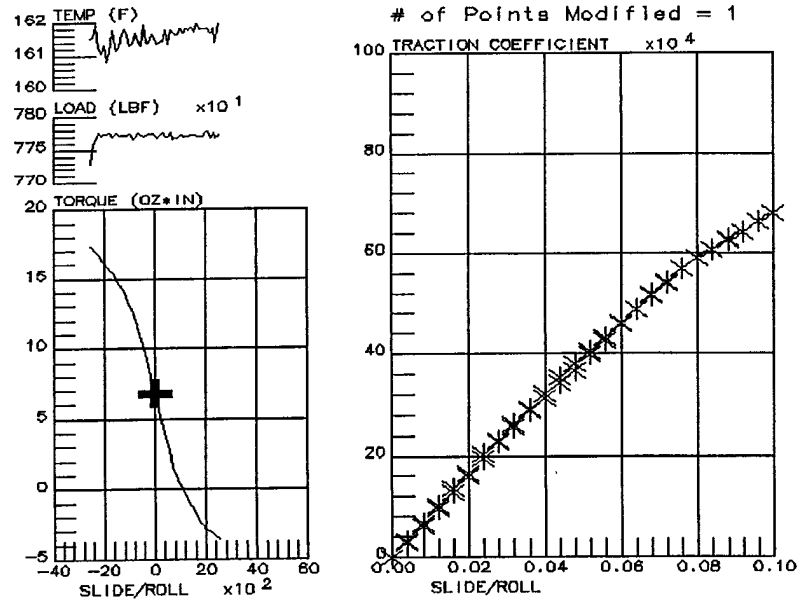
AI 85-42 PropLab #079-16 MIL-L-7808 #53
159F 23LBF 7050RPM 13 FILE: o77159



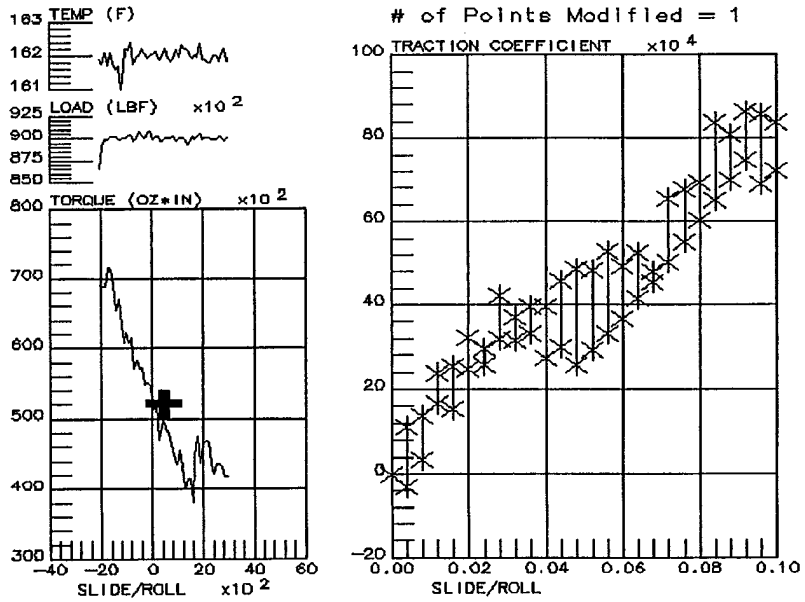
AI 85-42 PropLab #079-16 MIL-L-7808 #54
159F 50LBF 7050RPM 14 FILE: o77159



AI 85-42 PropLab #079-16 MIL-L-7808 #55
159F 77LBF 7050RPM 15 FILE: o77159



AI 85-42 PropLab #079-16 MIL-L-7808 #56
159F 8LBF 10600RPM 16 FILE: o77159



AI 85-42 PropLab #079-16 MIL-L-7808 #57
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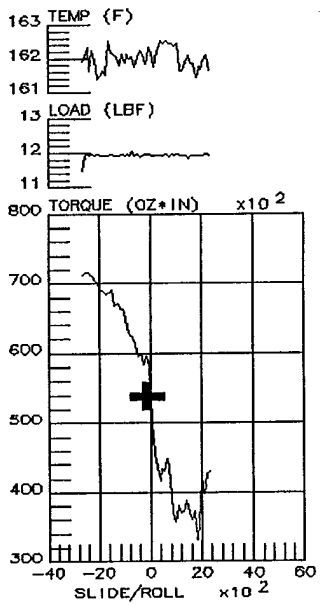

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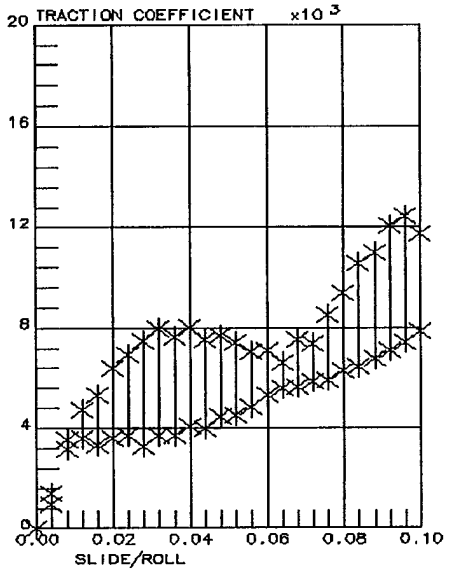
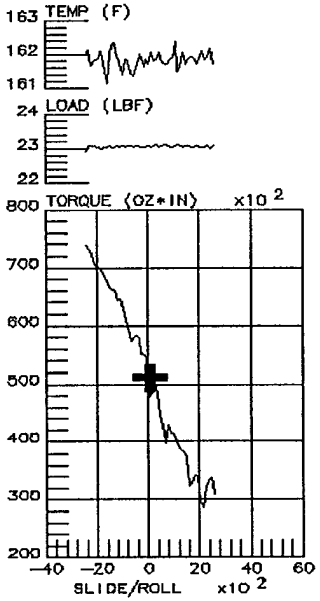


AI 85-42 PropLab #079-16 MIL-L-7808 #58
159F 23LBF 10600RPM 18 FILE: o77159



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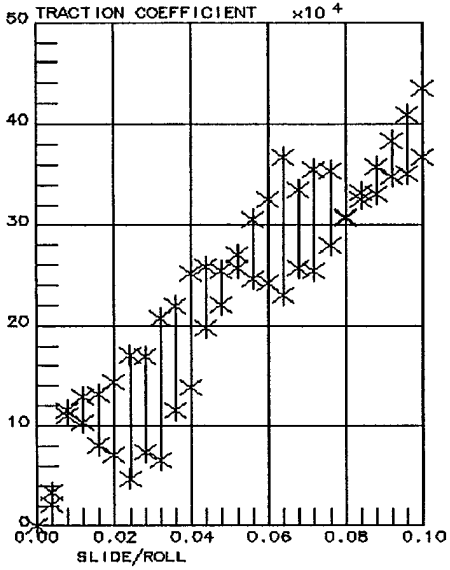
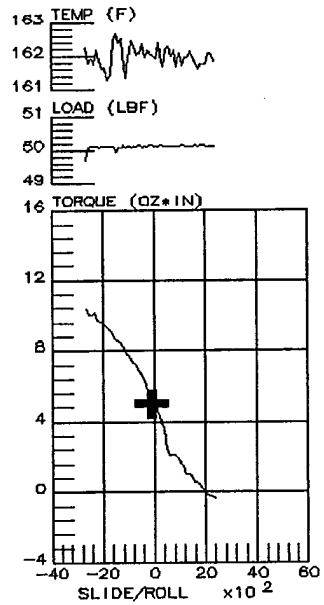


AI 85-42 PropLab #079-16 MIL-L-7808 #59
159F 50LBF 10600RPM 19 FILE: o77159



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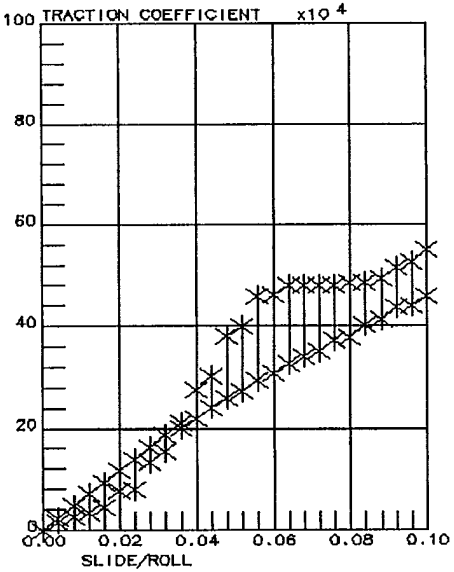
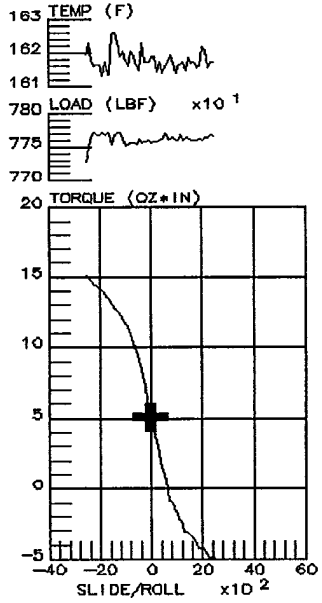


AI 85-42 PropLab #079-16 MIL-L-7808 #60
159F 77LBF 10600RPM 20 FILE: o77159



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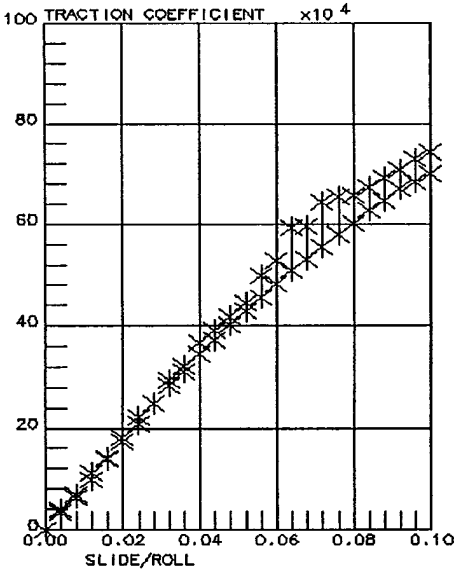
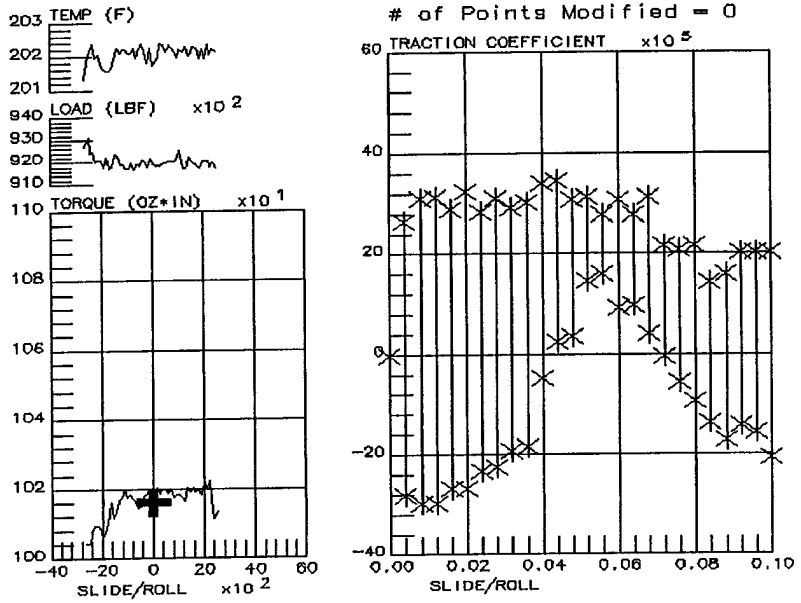
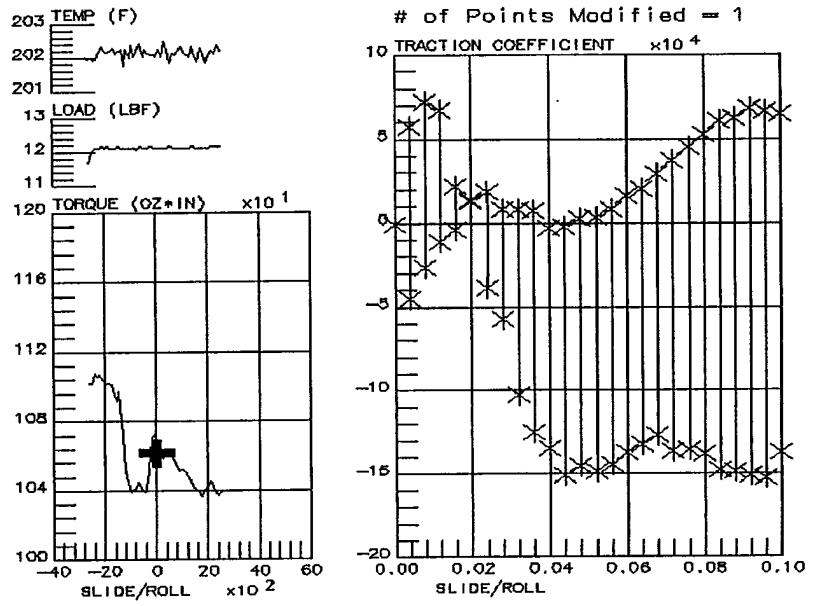


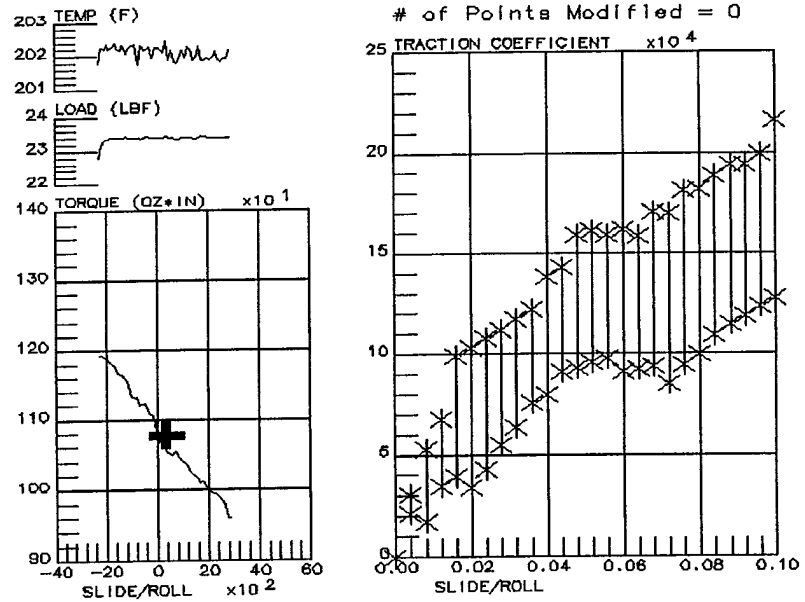
AI 85-42 PropLab #079-16 MIL-L-7808 #61
200F 8LBF 2620RPM 1 FILE: o77200



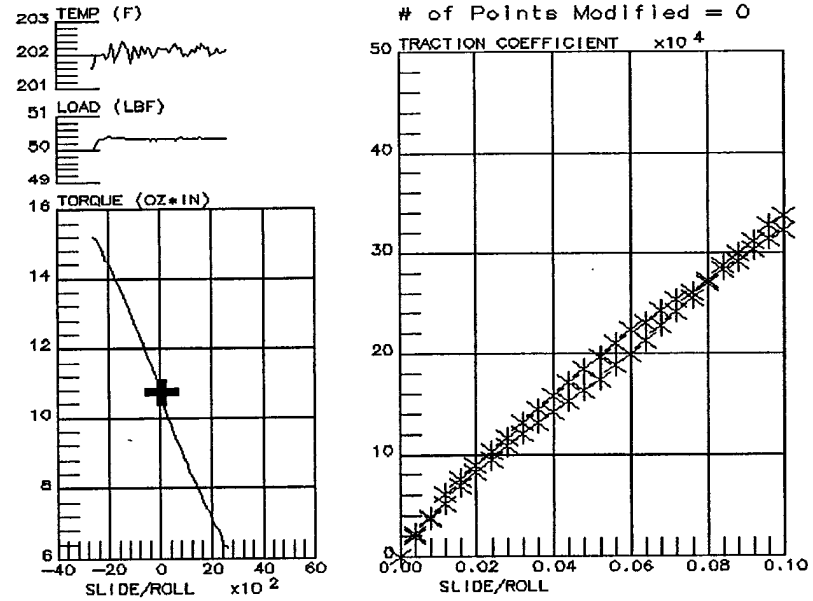
AI 85-42 PropLab #079-16 MIL-L-7808 #62
200F 11LBF 2620RPM 2 FILE: o77200



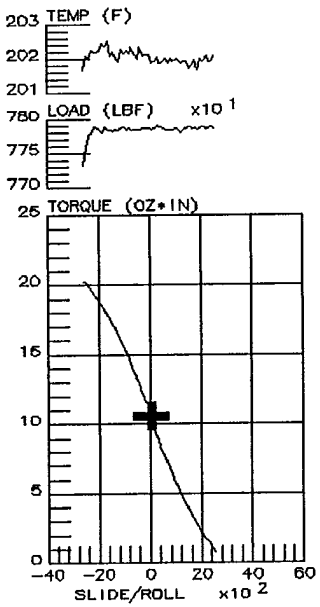
AI 85-42 PropLab #079-16 MIL-L-7808 #63
200F 23LBF 2620RPM 3 FILE: o77200

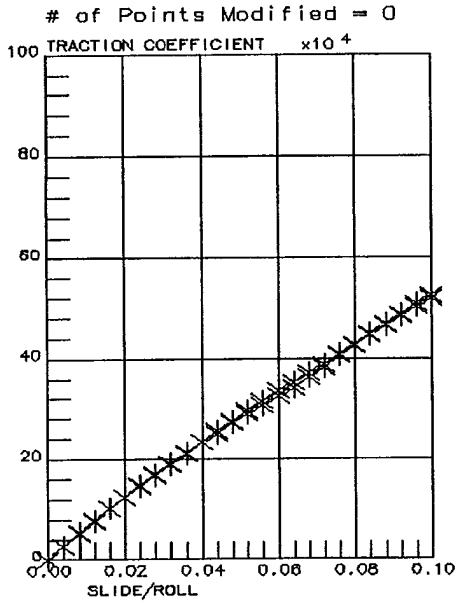


AI 85-42 PropLab #079-16 MIL-L-7808 #64
200F 50LBF 2620RPM 4 FILE: o77200

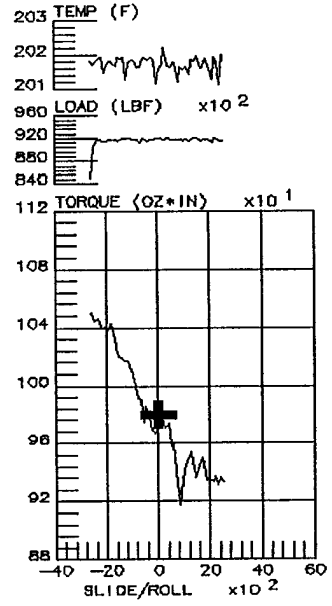


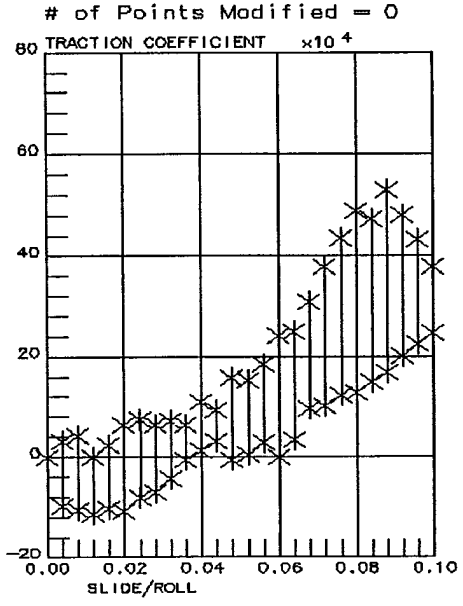
AI 85-42 PropLab #079-16 MIL-L-7808 #65
200F 77LBF 2620RPM 5 FILE: o77200



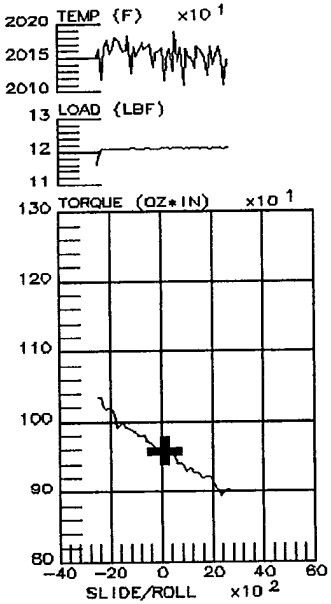


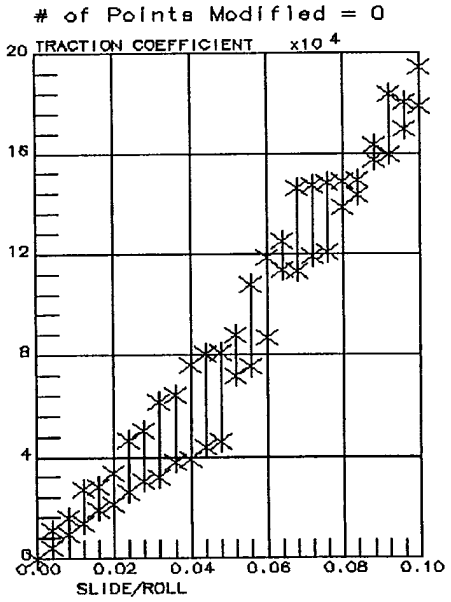
AI 85-42 PropLab #079-16 MIL-L-7808 #66
200F 8LBF 4880RPM 6 FILE: o77200



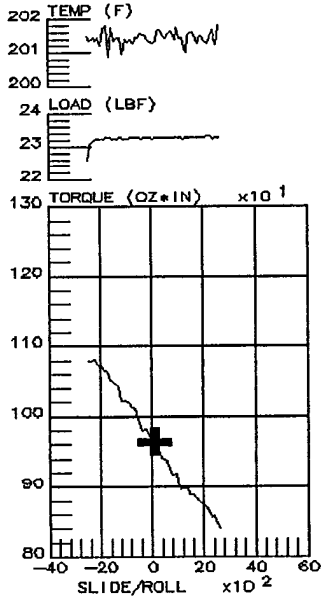


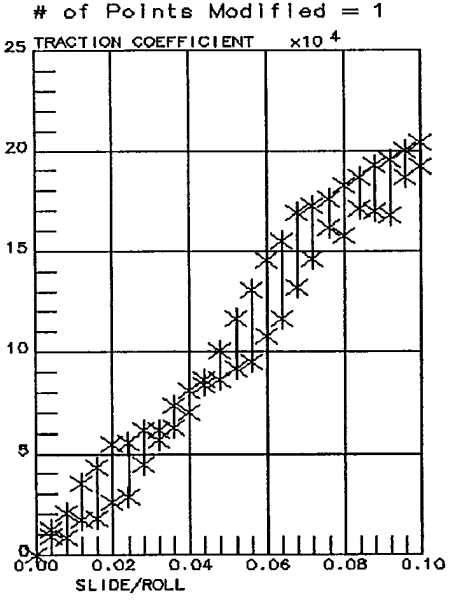
AI 85-42 PropLab #079-16 MIL-L-7808 #67
200F 11LBF 4880RPM 7 FILE: o77200



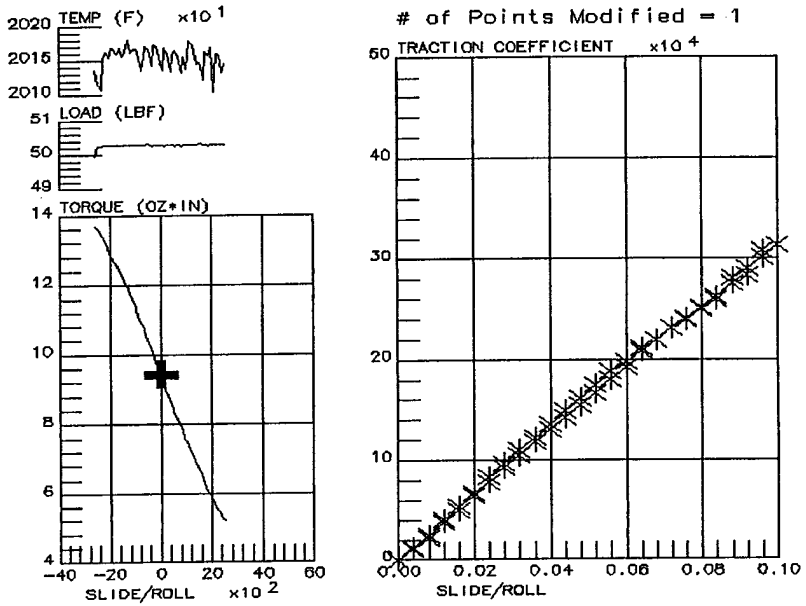


AI 85-42 PropLab #079-16 MIL-L-7808 #68
200F 23LBF 4880RPM 8 FILE: o77200

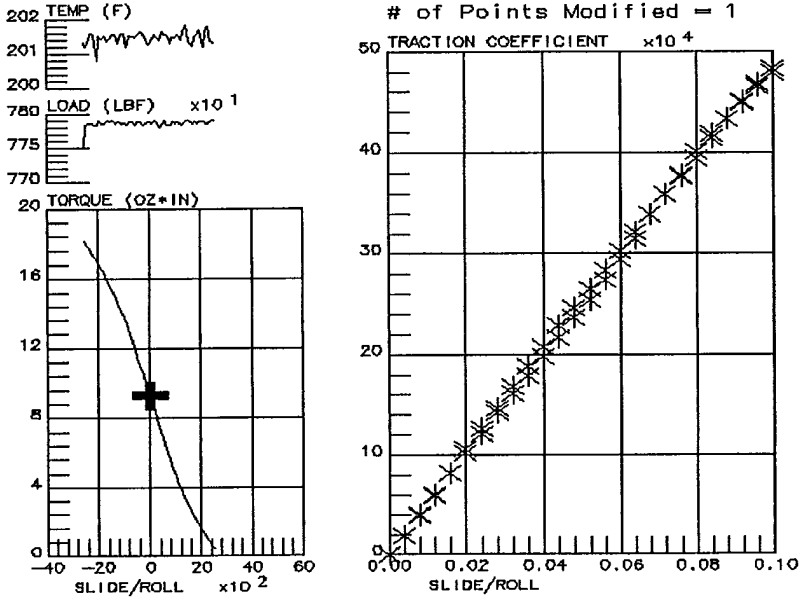




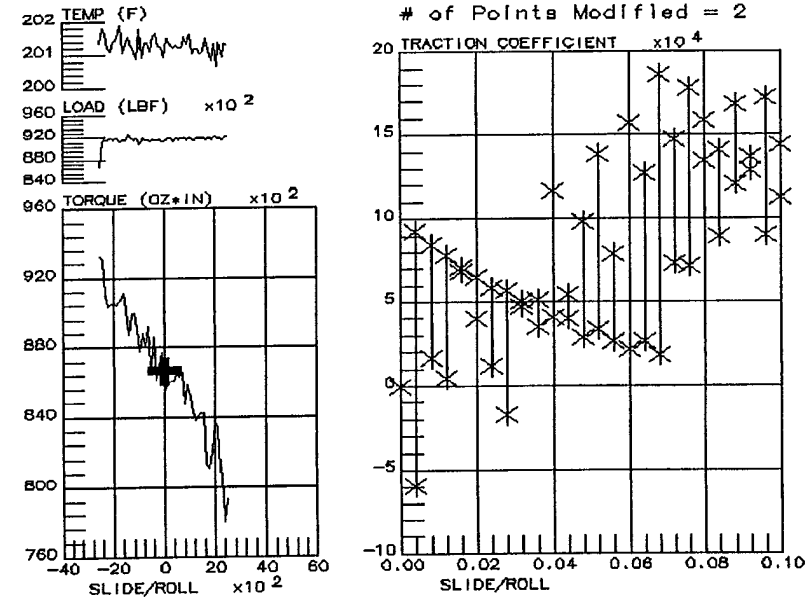
AI 85-42 PropLab #079-16 MIL-L-7808 #69
200F 50LBF 4880RPM 9 FILE: o77200



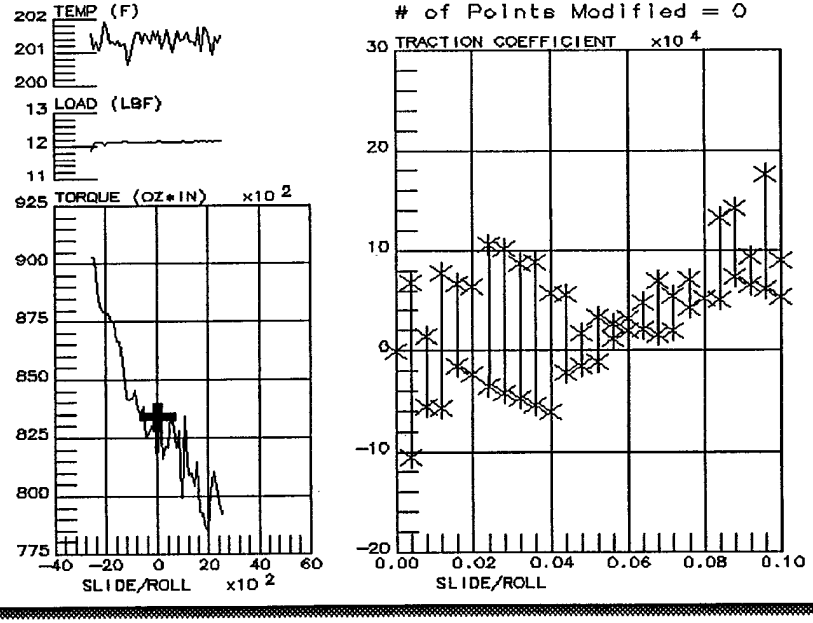
AI 85-42 PropLab #079-16 MIL-L-7808 #70
200F 77LBF 4880RPM 10 FILE: o77200



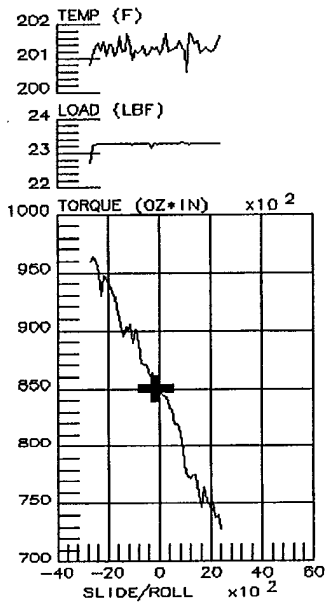
AI 85-42 PropLab #079-16 MIL-L-7808 #71
200F 8LBF 7050RPM 11 FILE: o77200

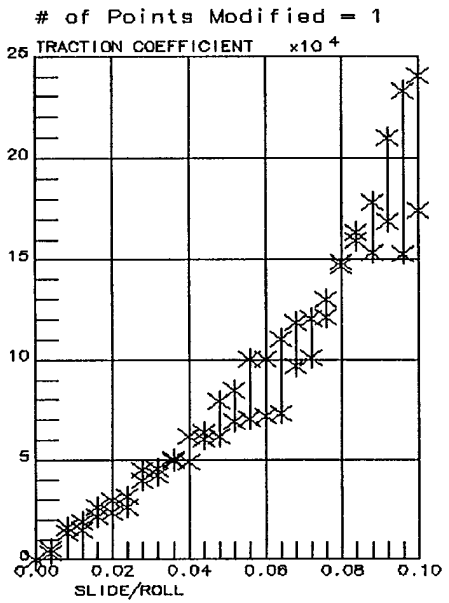


AI 85-42 PropLab #079-16 MIL-L-7808 #72
200F 11LBF 7050RPM 12 FILE: o77200

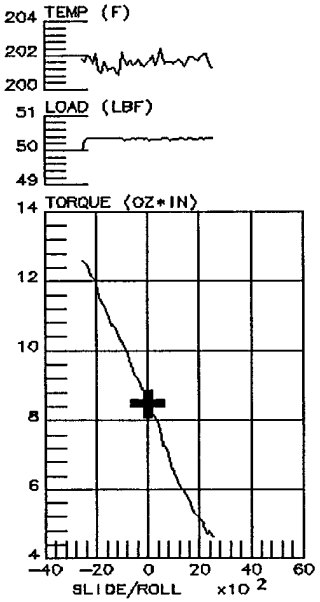


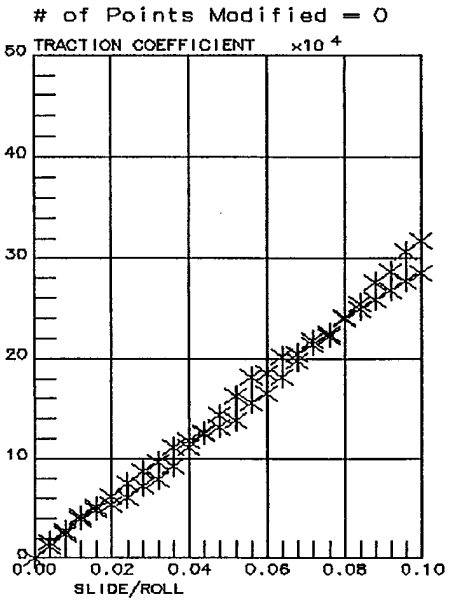
AI 85-42 PropLab #079-16 MIL-L-7808 #73
200F 23LBF 7050RPM 13 FILE: o77200



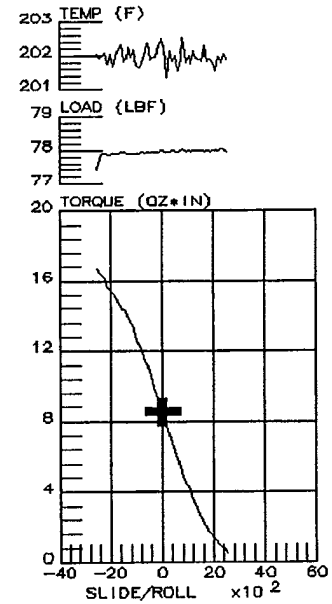


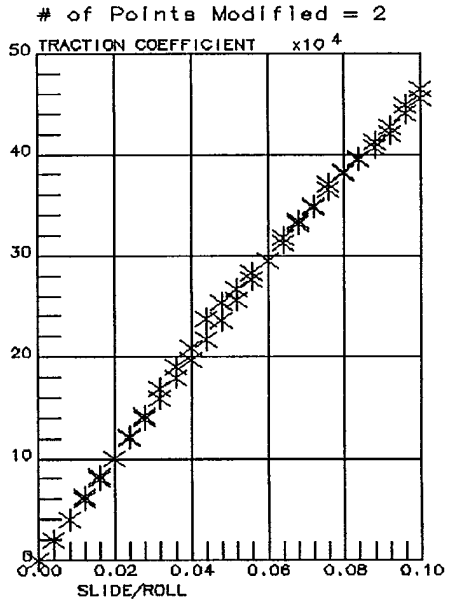
AI 85-42 PropLab #079-16 MIL-L-7808 #74
200F 50LBF 7050RPM 14 FILE: o77200



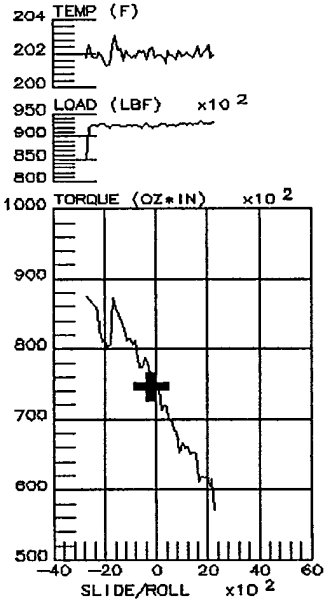


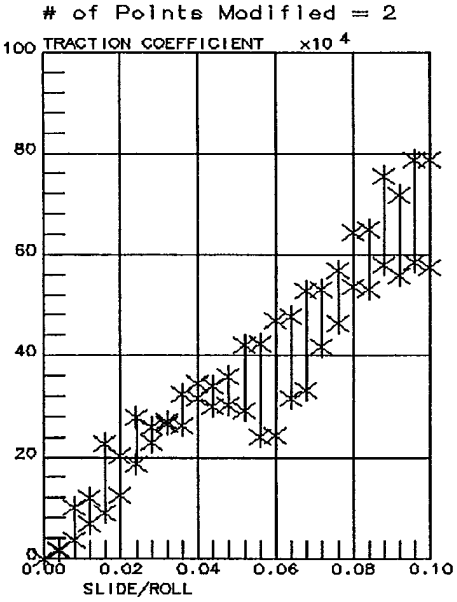
AI 85-42 PropLab #079-16 MIL-L-7808 #75
200F 77LBF 7050RPM 15 FILE: o77200



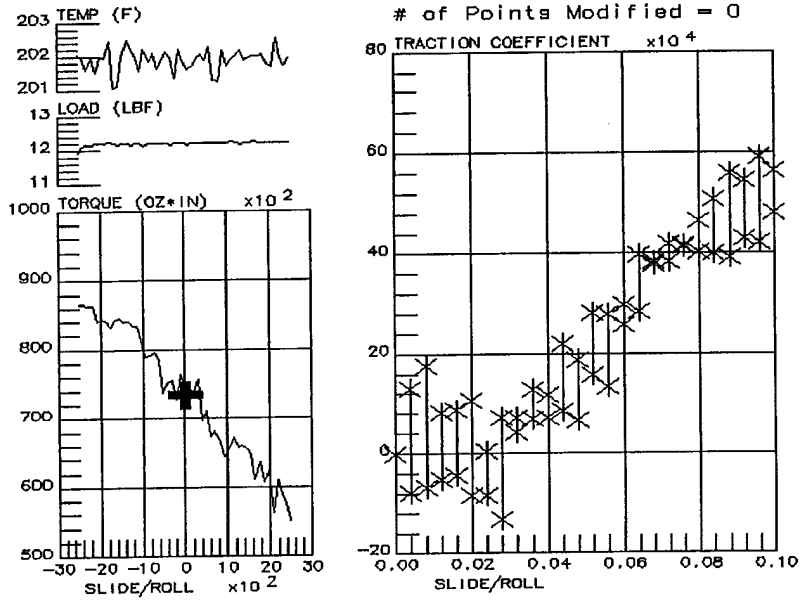


AI 85-42 PropLab #079-16 MIL-L-7808 #76
200F 8LBF 10600RPM 16 FILE: o77200

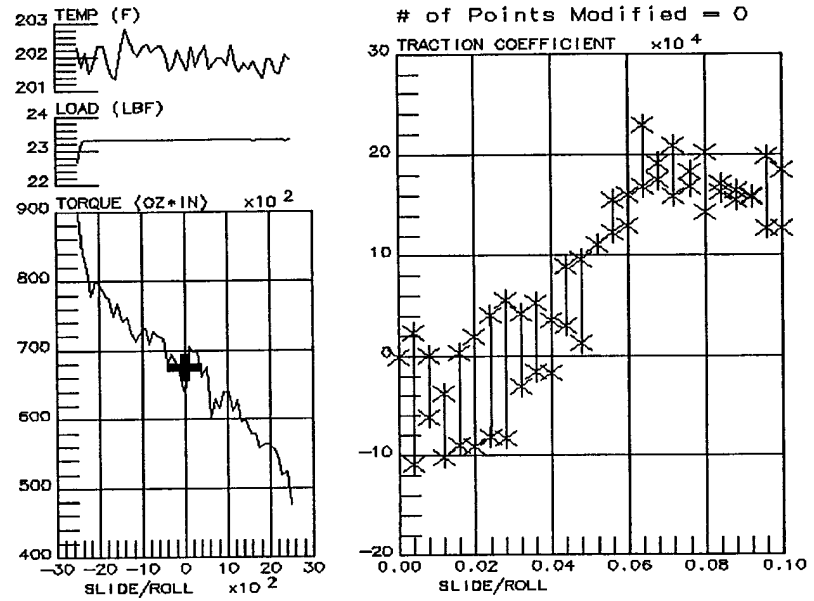




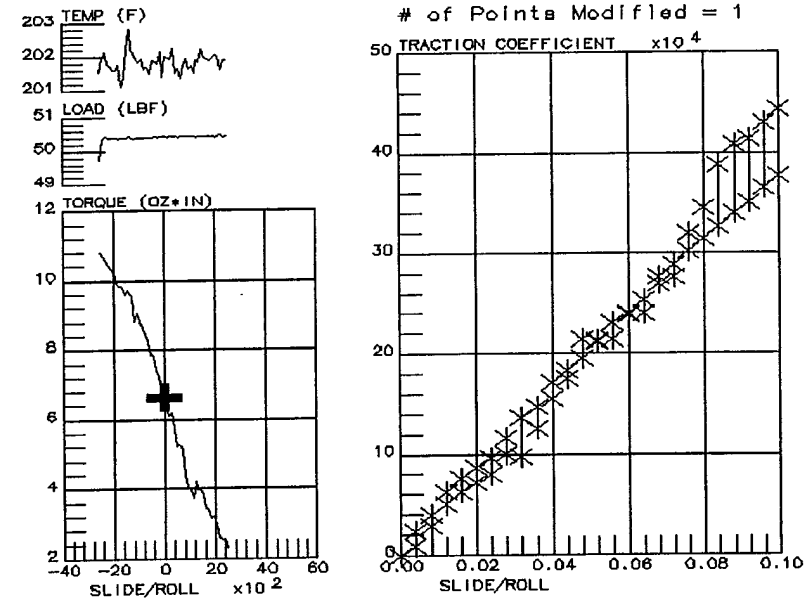
AI 85-42 PropLab #079-16 MIL-L-7808 #77
200F 11LBF 10600RPM 17 FILE: o77200



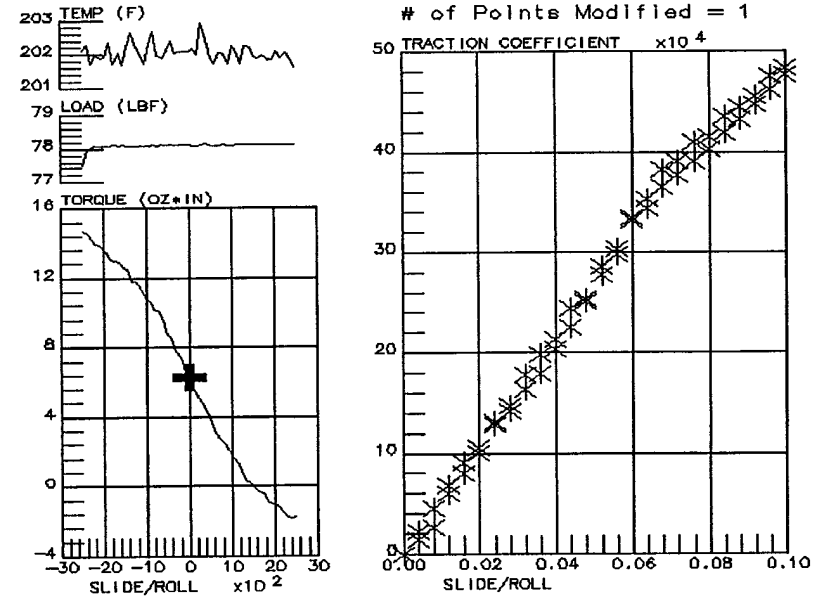
AI 85-42 PropLab #079-16 MIL-L-7808 #78
200F 23LBF 10600RPM 18 FILE: o77200



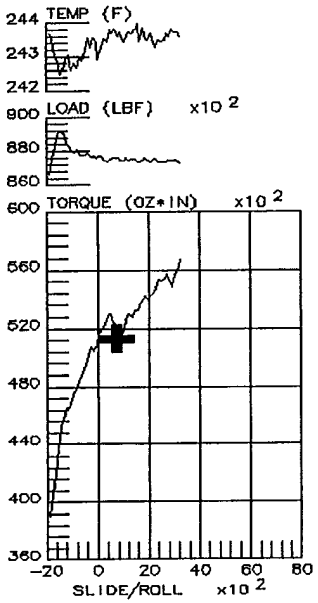
AI 85-42 PropLab #079-16 MIL-L-7808 #79
200F 50LBF 10600RPM 19 FILE: o77200

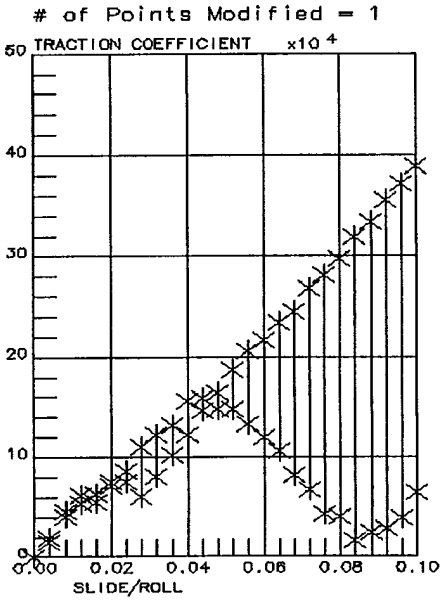


AI 85-42 PropLab #079-16 MIL-L-7808 #80
200F 77LBF 10600RPM 20 FILE: o77200

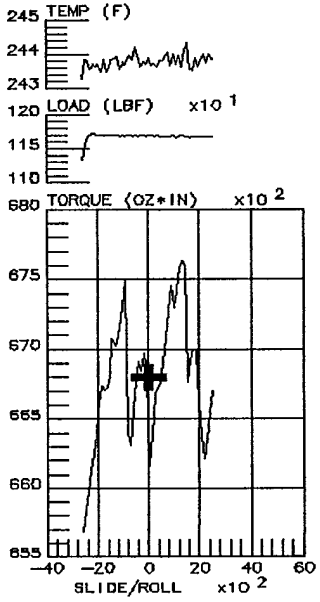


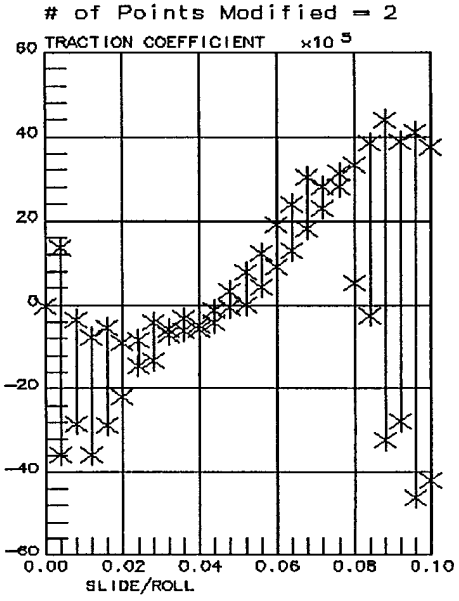
AI 85-42 PropLab #079-16 MIL-L-7808 #81
240F 8LBF 2620RPM 1 FILE: o77240



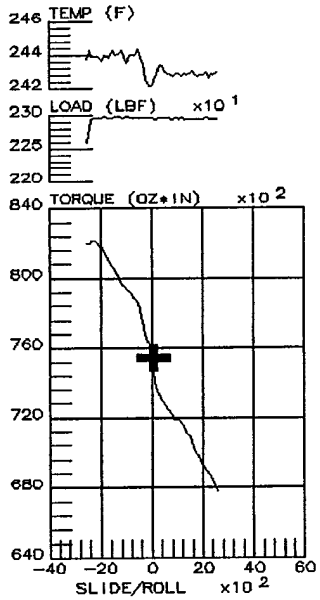


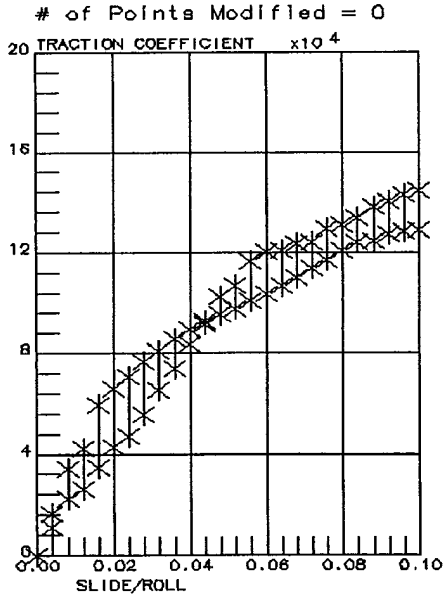
AI 85-42 PropLab #079-16 MIL-L-7808 #82
240F 11LBF 2620RPM 2 FILE: o77240



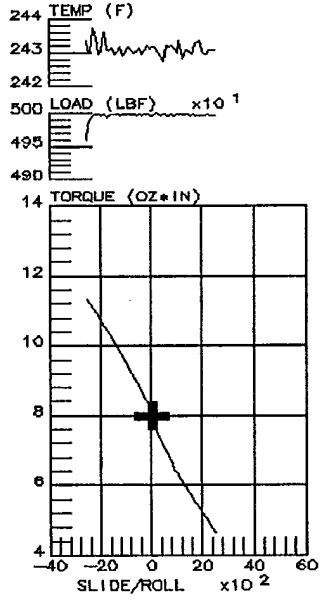


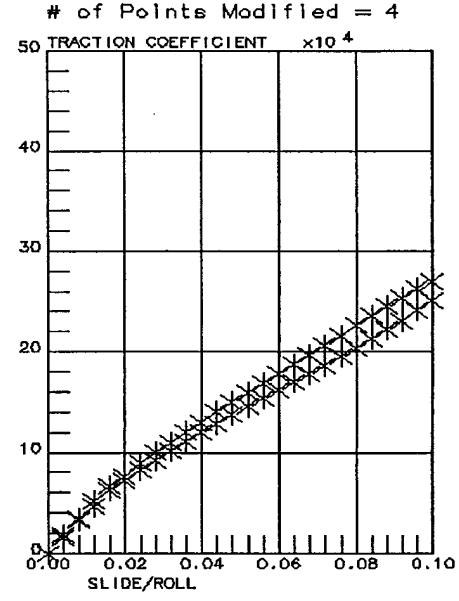
AI 85-42 PropLab #079-16 MIL-L-7808 #83
240F 23LBF 2620RPM 3 FILE: o77240



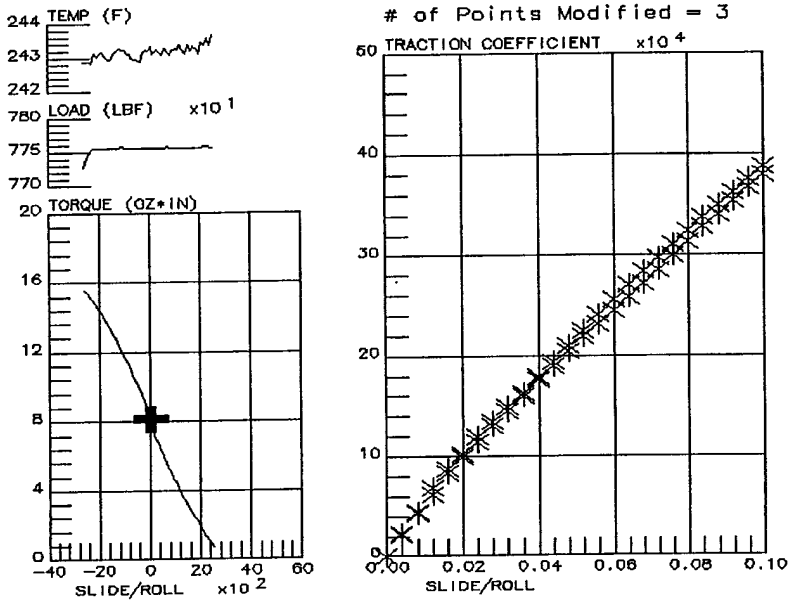


AI 85-42 PropLab #079-16 MIL-L-7808 #84
240F 50LBF 2620RPM 4 FILE: o77240





AI 85-42 PropLab #079-16 MIL-L-7808 #85
240F 77LBF 2620RPM 5 FILE: o77240



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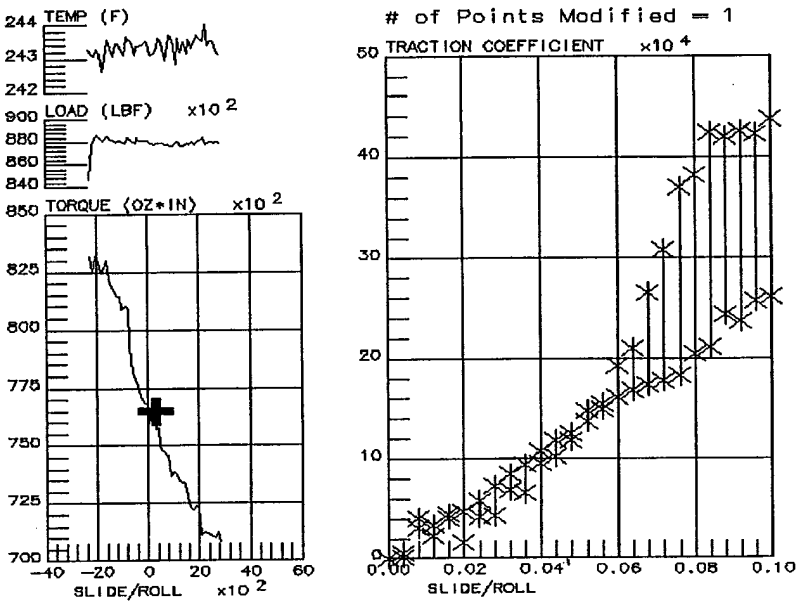
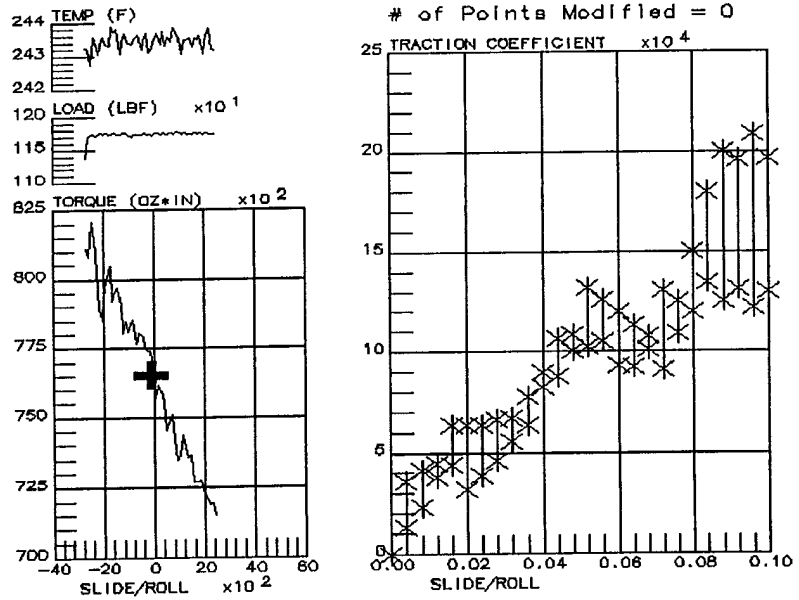
240F 8LBF 4880RPM 6 FILE: o77240



AI 85-42 PropLab #079-16 MIL-L-7808 #87
240F 11LBF 4880RPM 7 FILE: o77240



AI 85-42 PropLab #079-16 MIL-L-7808 #88
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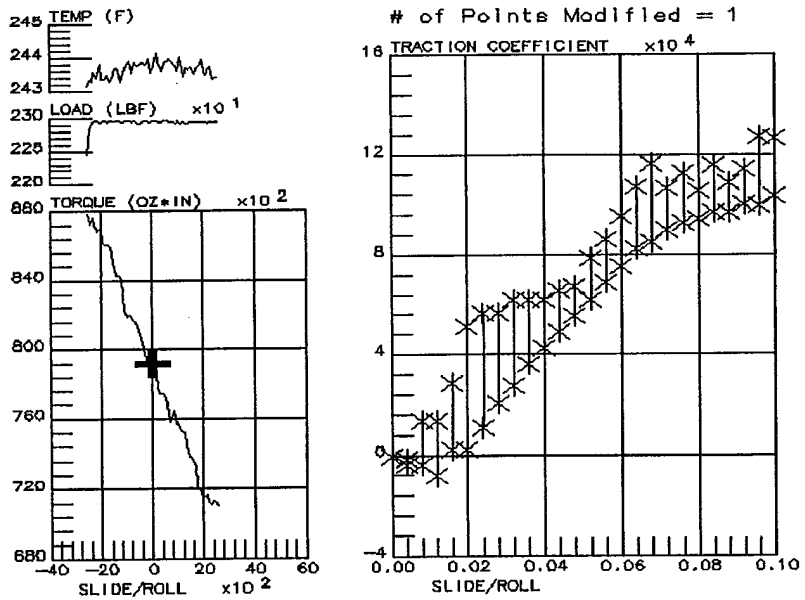

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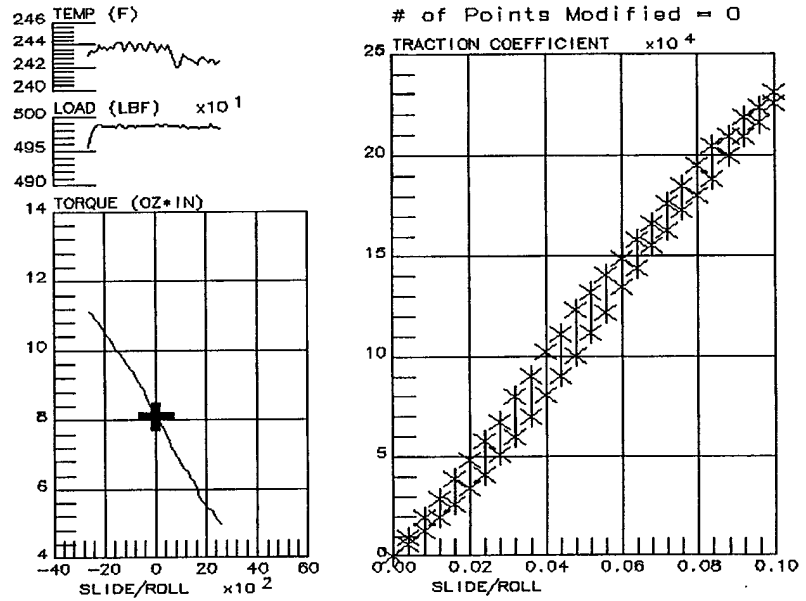
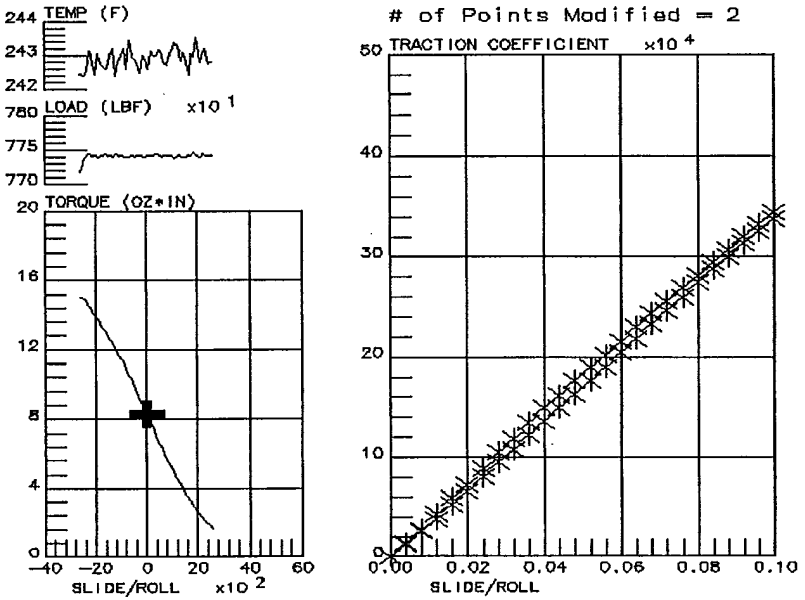
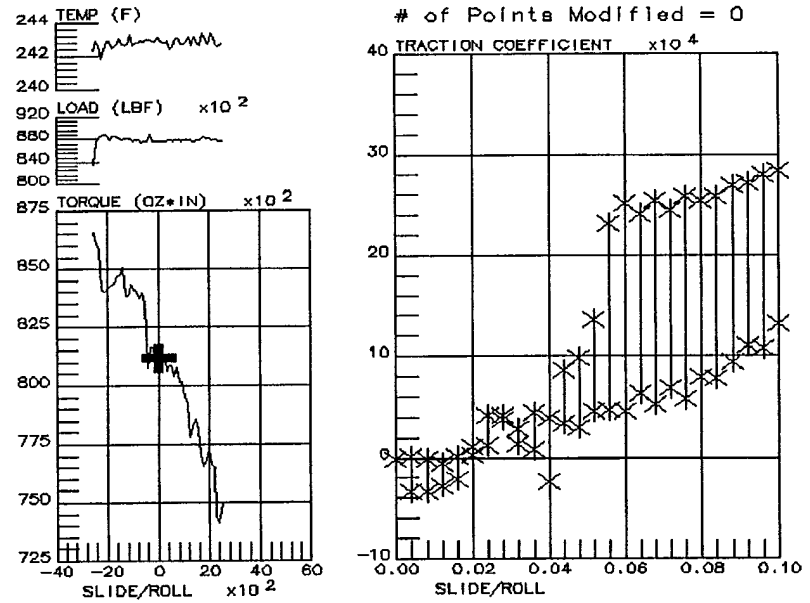


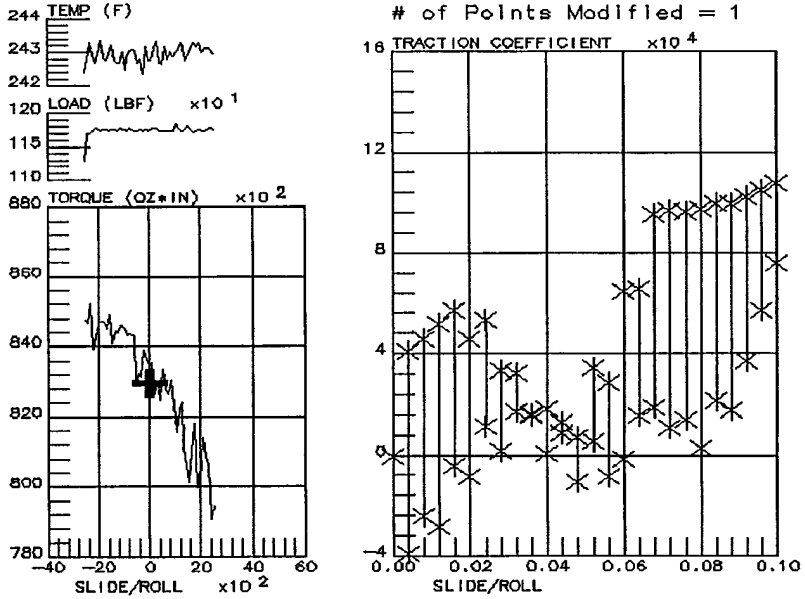
AI 85-42 PropLab #079-16 MIL-L-7808 #90
240F 77LBF 4880RPM 10 FILE: o77240



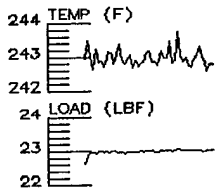
AI 85-42 PropLab #079-16 MIL-L-7808 #91
240F 8LBF 7050RPM 11 FILE: o77240

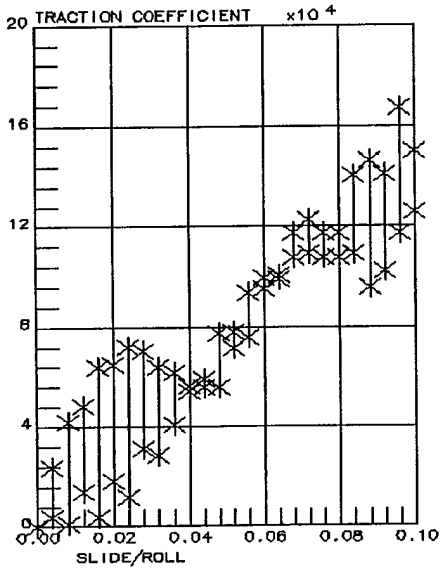


AI 85-42 PropLab #079-16 MIL-L-7808 #92
240F 11LBF 7050RPM 12 FILE: o77240

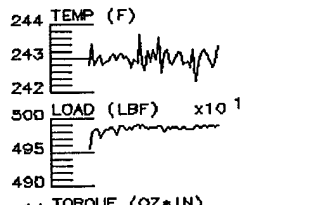


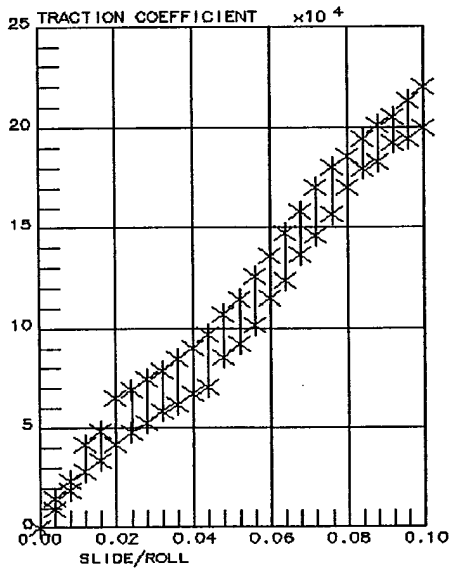
AI 85-42 PropLab #079-16 MIL-L-7808 #93
240F 23LBF 7050RPM 13 FILE: o77240



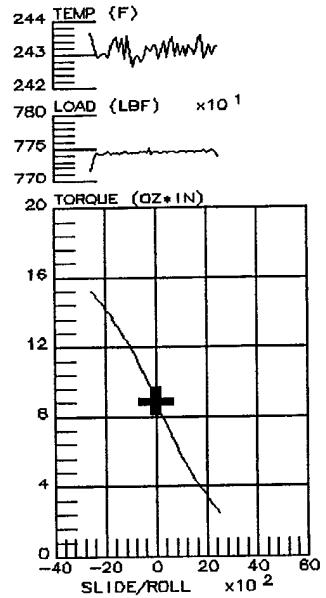


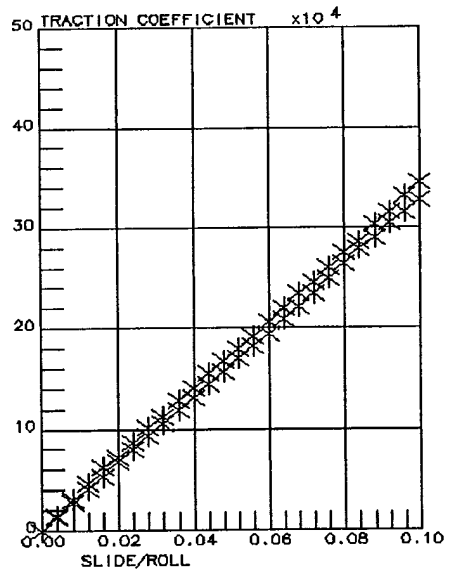
AI 85-42 PropLab #079-16 MIL-L-7808 #94
240F 50LBF 7050RPM 14 FILE: o77240





AI 85-42 PropLab #079-16 MIL-L-7808 #95
240F 77LBF 7050RPM 15 FILE: o77240





AI 85-42 PropLab #079-16 MIL-L-7808 #96
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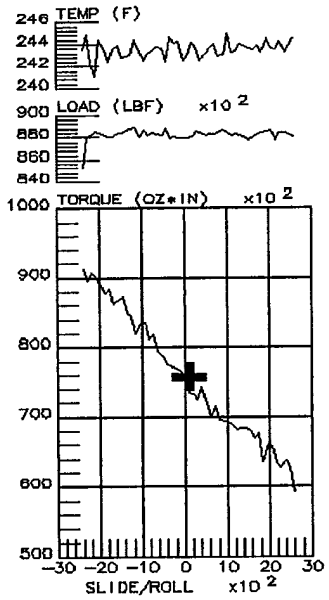
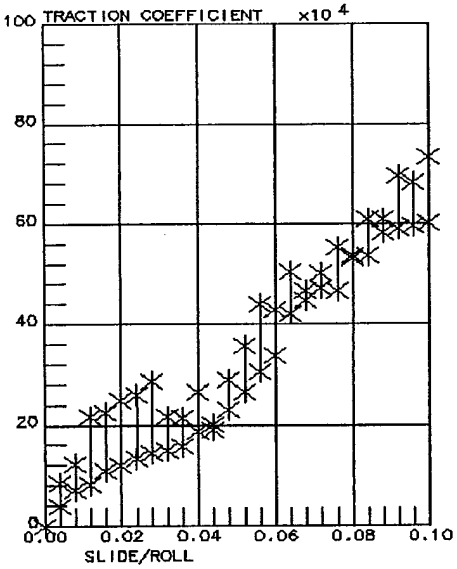
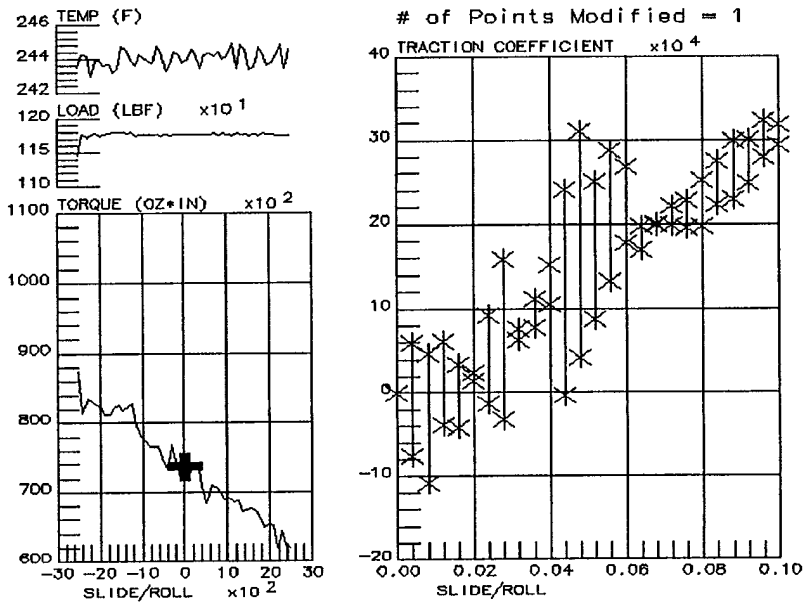
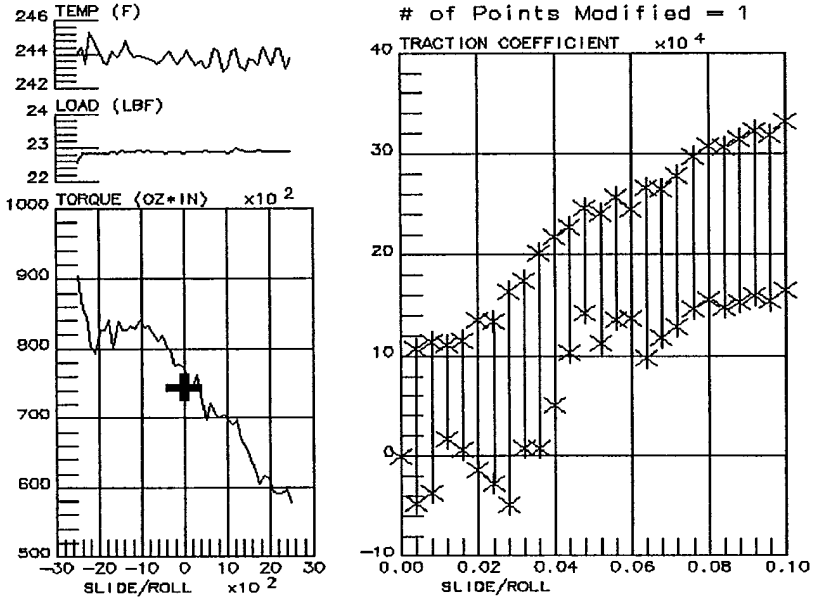




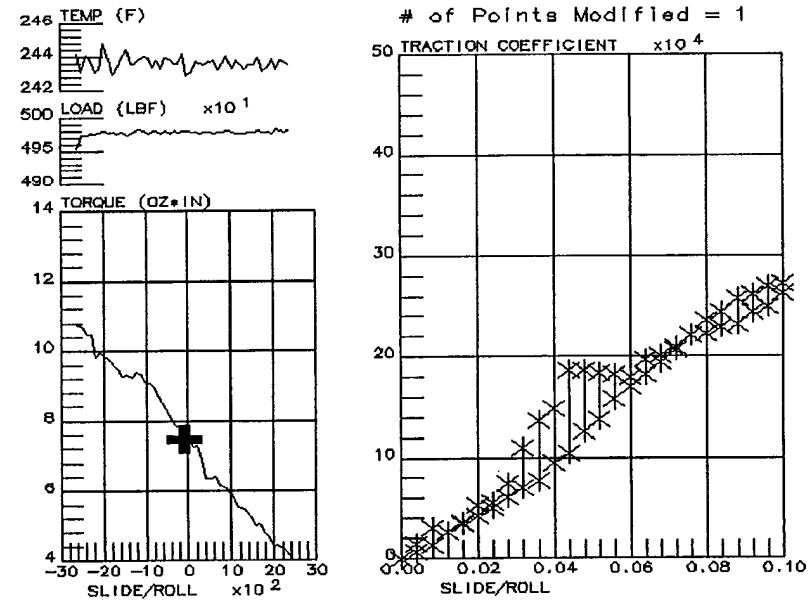
AI 85-42 PropLab #079-16 MIL-L-7808 #97
240F 11LBF 10600RPM 17 FILE: o77240



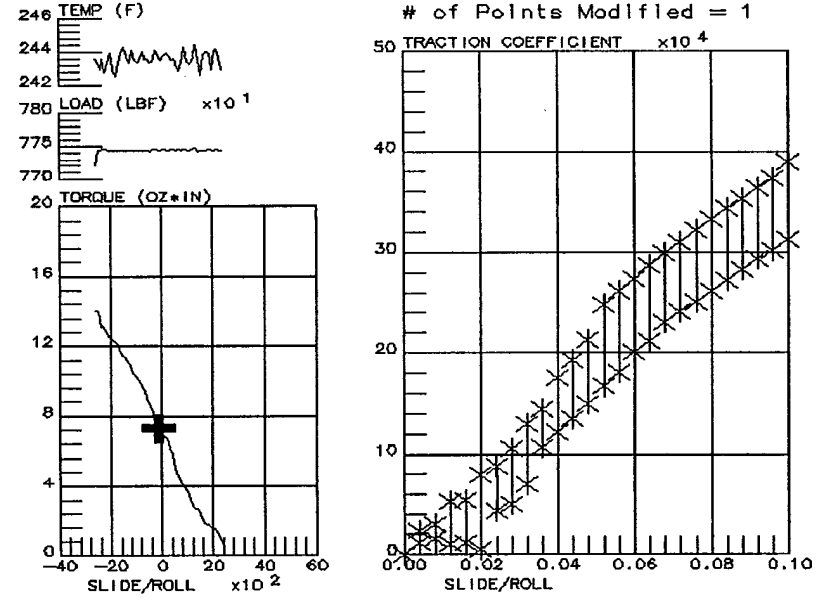
AI 85-42 PropLab #079-16 MIL-L-7808 #98
240F 23LBF 10600RPM 18 FILE: o77240



AI 85-42 PropLab #079-16 MIL-L-7808 #99
240F 50LBF 10600RPM 19 FILE: o77240



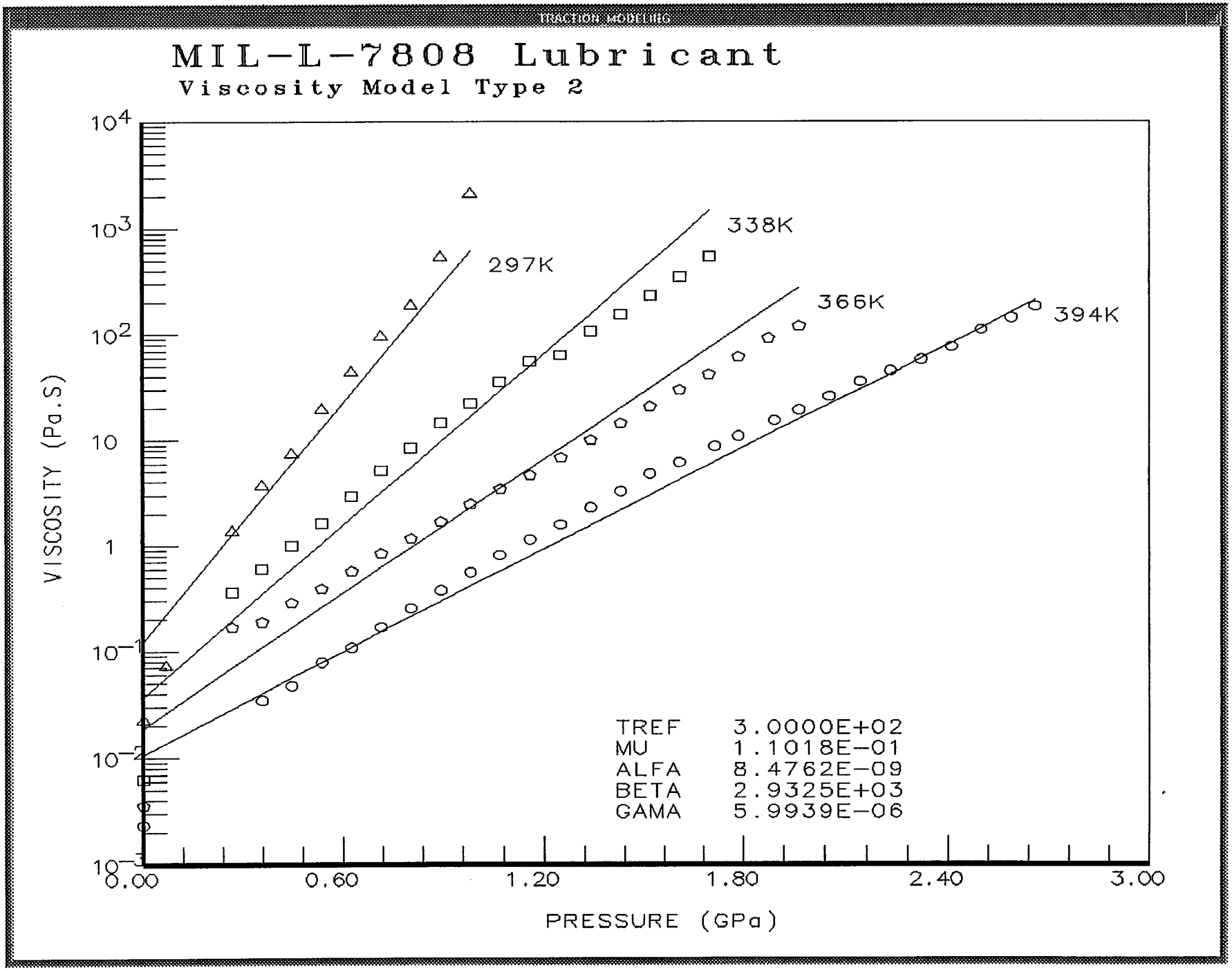
AI 85-42 PropLab #079-16 MIL-L-7808 #100
240F 77LBF 10600RPM 20 FILE: o77240



Lubricant name = AI 85-42 PropLab #79-16 MIL-L-7808

NEWTONIAN MODEL TYPE 1

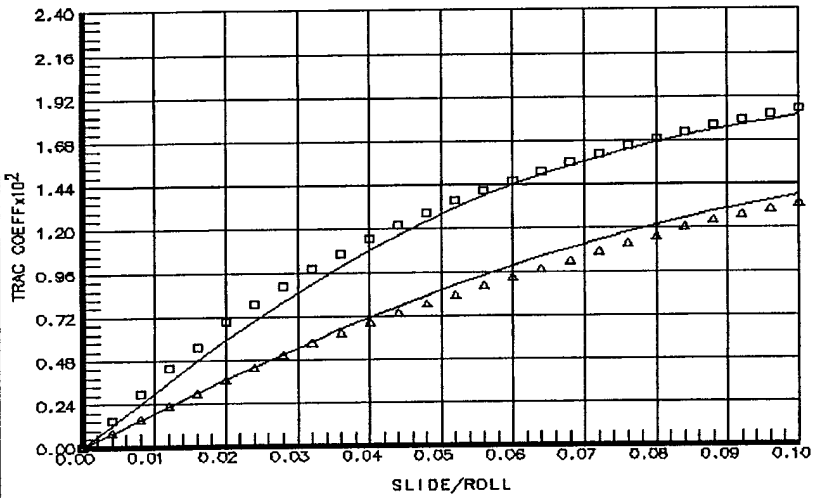
Dataset Name	Inlet Temp (K)	Roll Velocity (M/S)	XMU* (Pa.S)	ALFA* (1/Pa)	BETA* (1/K)
ai1.dat	2.9944E+02	5.2267E+00	5.6467E-01	5.2000E-09	6.7660E-02
ai2.dat	2.9944E+02	9.7352E+00	3.6319E-01	5.2000E-09	4.4096E-02
ai3.dat	2.9944E+02	1.4064E+01	2.4268E-01	5.2000E-09	4.2192E-02
ai4.dat	2.9944E+02	2.1146E+01	1.5258E-01	5.2000E-09	4.0224E-02
ai5.dat	3.2222E+02	5.2267E+00	1.8136E-01	5.2000E-09	6.2017E-02
ai6.dat	3.2222E+02	9.7352E+00	1.2885E-01	5.2000E-09	4.4216E-02
ai7.dat	3.2222E+02	1.4064E+01	8.8223E-02	5.2000E-09	3.3151E-02
ai8.dat	3.2222E+02	2.1146E+01	6.4734E-02	5.2000E-09	3.0114E-02
ai9.dat	3.4389E+02	5.2267E+00	7.7012E-02	5.2000E-09	4.1539E-02
ai10.dat	3.4389E+02	9.7352E+00	5.5537E-02	5.2000E-09	4.3620E-02
ai11.dat	3.4389E+02	1.4064E+01	4.3356E-02	5.2000E-09	2.9351E-02
ai12.dat	3.4389E+02	2.1146E+01	4.0220E-02	5.2000E-09	3.6677E-02
ai13.dat	3.6667E+02	5.2267E+00	5.0033E-02	5.2000E-09	1.9730E-01
ai14.dat	3.6667E+02	9.7352E+00	2.6551E-02	5.2000E-09	3.3176E-02
ai15.dat	3.6667E+02	1.4064E+01	2.1309E-02	5.2000E-09	3.5267E-02
ai16.dat	3.6667E+02	2.1146E+01	2.1472E-02	5.2000E-09	5.3240E-02
ai17.dat	3.8889E+02	5.2267E+00	4.8146E-02	5.2000E-09	4.1650E-01
ai18.dat	3.8889E+02	9.7352E+00	1.5616E-02	5.2000E-09	5.9221E-02
ai19.dat	3.8889E+02	1.4064E+01	1.1311E-02	5.2000E-09	1.6477E-02
ai20.dat	3.8889E+02	2.1146E+01	1.3180E-02	5.2000E-09	7.3631E-02


MIL-L-7808 Lubricant
Viscosity Model Type 2
VISCOSITY (Pa.S)
PRESSURE (GPa)
297K
338K
366K
394K
TREF 3.0000E+02
MU 1.1018E-01
ALFA 8.4762E-09
BETA 2.9325E+03
GAMA 5.9939E-06

AI 85-42 PropLab #079-16 MIL-L-7808

NEWTONIAN MODEL TYPE 1 ai1.dat

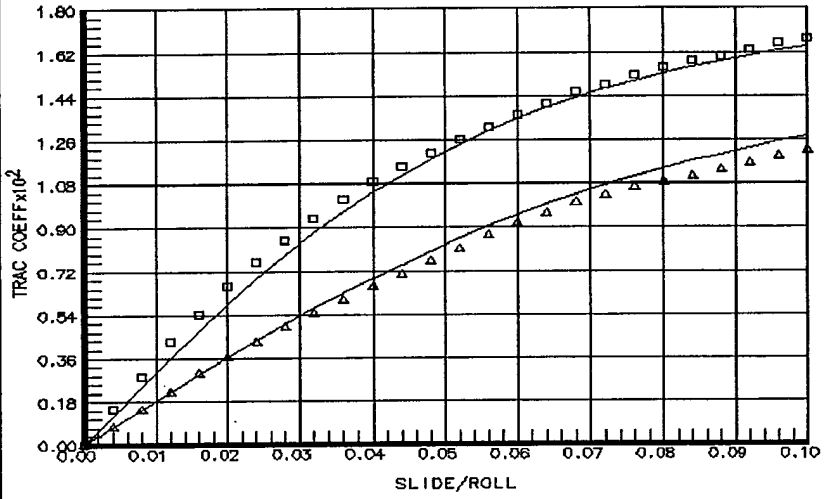
						XMU*	ALFA*	BETA*
△	883MPA	222N	5.23M/S	299K #	4	5.647E-01	5.200E-09	6.766E-02
□	1019MPA	342N	5.23M/S	299K #	5	5.647E-01	5.200E-09	6.766E-02



AI 85-42 PropLab #079-16 MIL-L-7808

NEWTONIAN MODEL TYPE 1 ai2.dat

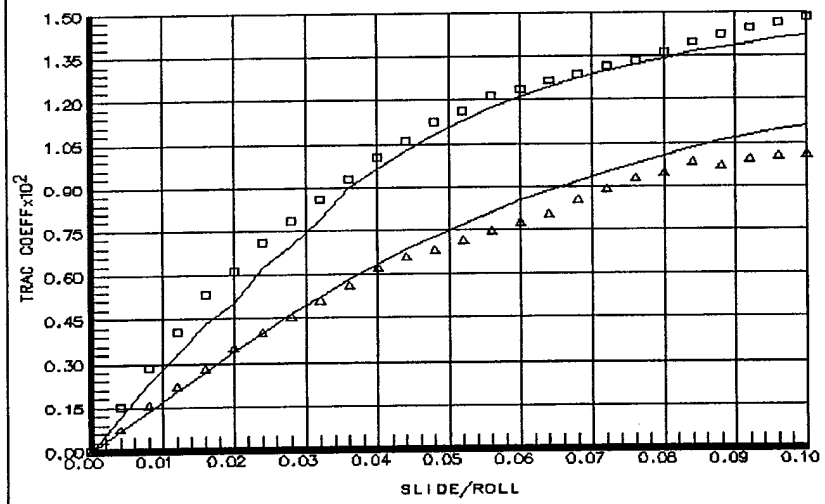
						XMU*	ALFA*	BETA*
△	883MPA	222N	9.74M/S	299K #	9	3.632E-01	5.200E-09	4.410E-02
□	1019MPA	342N	9.74M/S	299K #	10	3.632E-01	5.200E-09	4.410E-02



AI 85-42 PropLab #079-16 MIL-L-7808

NEWTONIAN MODEL TYPE 1 ai3.dat

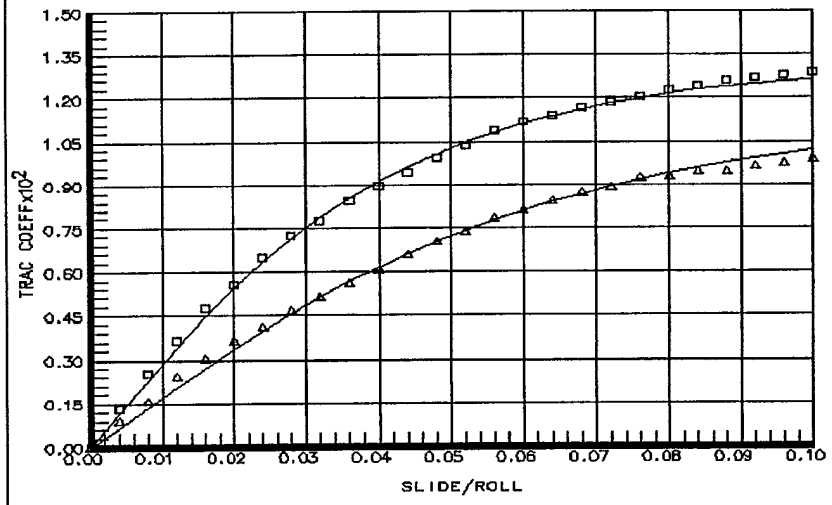
						XMU*	ALFA*	BETA*
△	883MPA	222N	14.06M/S	299K #	14	2.427E-01	5.200E-09	4.219E-02
□	1018MPA	342N	14.06M/S	299K #	15	2.427E-01	5.200E-09	4.219E-02



AI 85-42 PropLab #079-16 MIL-L-7808

NEWTONIAN MODEL TYPE 1 ai4.dat

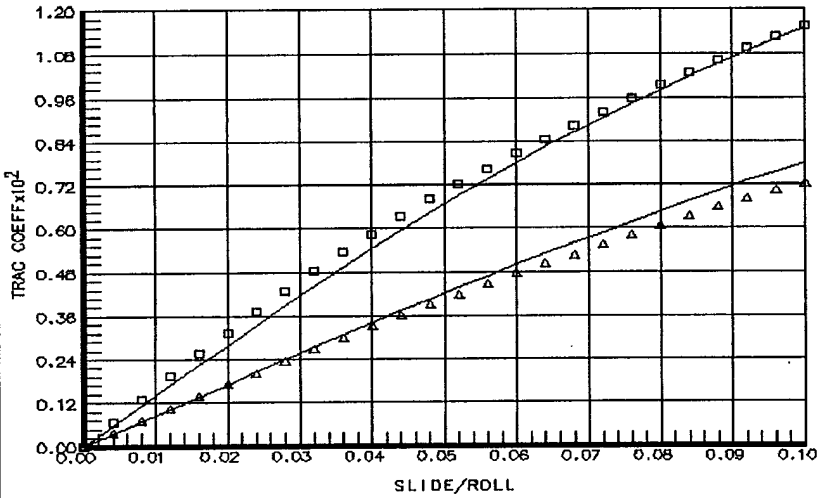
						XMU*	ALFA*	BETA*
△	882MPA	222N	21.15M/S	299K #	19	1.526E-01	5.200E-09	4.022E-02
□	1019MPA	342N	21.15M/S	299K #	20	1.526E-01	5.200E-09	4.022E-02



AI 85-42 PropLab #079-16 MIL-L-7808

NEWTONIAN MODEL TYPE 1 ai5.dat

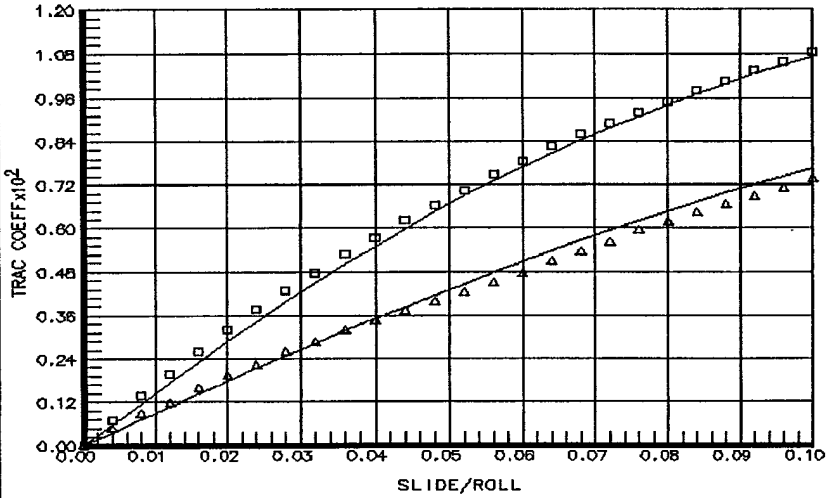
					XMU*	ALFA*	BETA*
△	885MPA	222N	5.23M/S	322K # 24	1.814E-01	5.200E-09	6.202E-02
□	1020MPA	342N	5.23M/S	322K # 25	1.814E-01	5.200E-09	6.202E-02



AI 85-42 PropLab #079-16 MIL-L-7808

NEWTONIAN MODEL TYPE 1 ai6.dat

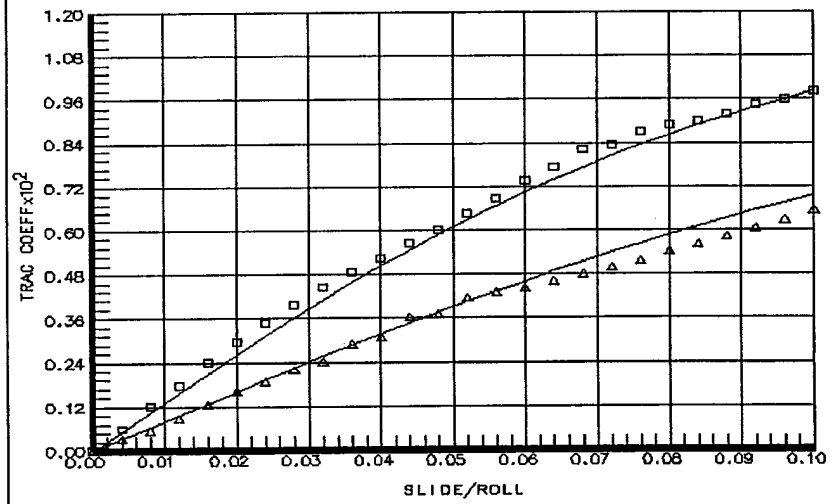
					XMU*	ALFA*	BETA*
△	884MPA	222N	9.74M/S	322K # 29	1.288E-01	5.200E-09	4.422E-02
□	1019MPA	342N	9.74M/S	322K # 30	1.288E-01	5.200E-09	4.422E-02



AI 85-42 PropLab #079-16 MIL-L-7808

NEWTONIAN MODEL TYPE 1 ai7.dat

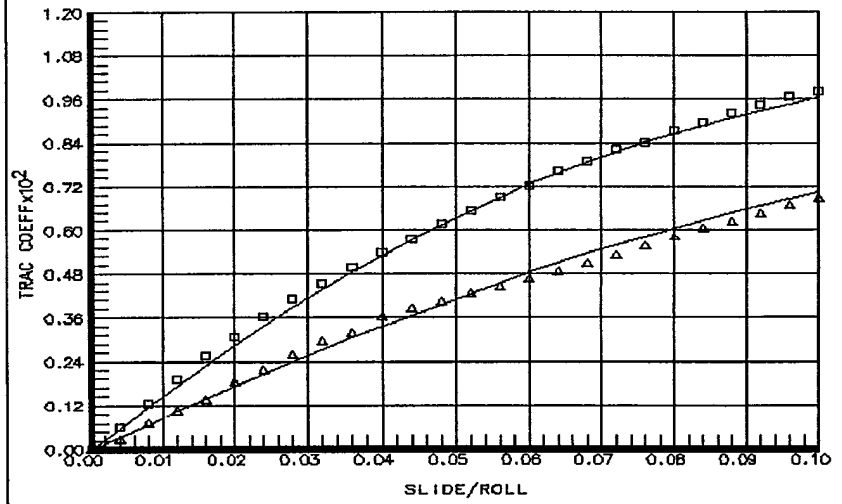
					XMU*	ALFA*	BETA*
△	884MPA	222N	14.06M/S	322K # 34	8.822E-02	5.200E-09	3.315E-02
□	1020MPA	342N	14.06M/S	322K # 35	8.822E-02	5.200E-09	3.315E-02



AI 85-42 PropLab #079-16 MIL-L-7808

NEWTONIAN MODEL TYPE 1 ai8.dat

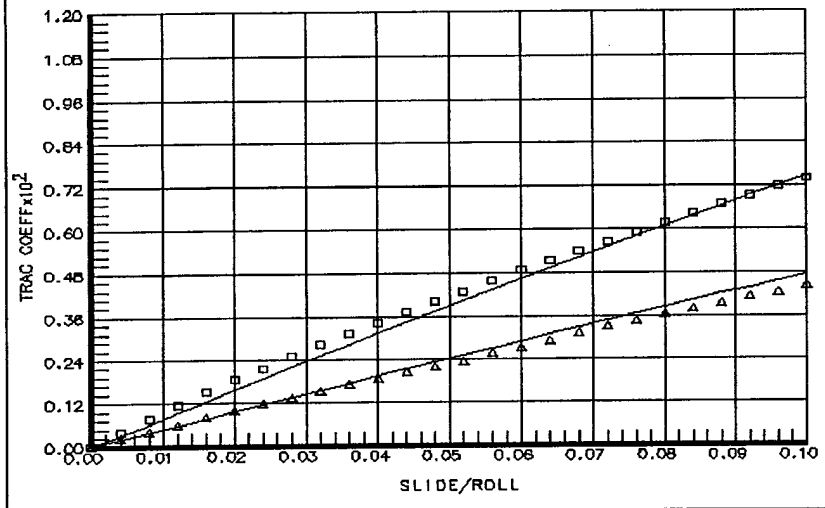
					XMU*	ALFA*	BETA*
△	884MPA	222N	21.15M/S	322K # 39	6.473E-02	5.200E-09	3.011E-02
□	1021MPA	342N	21.15M/S	322K # 40	6.473E-02	5.200E-09	3.011E-02



AI 85-42 PropLab #079-16 MIL-L-7808

NEWTONIAN MODEL TYPE 1 ai9.dat

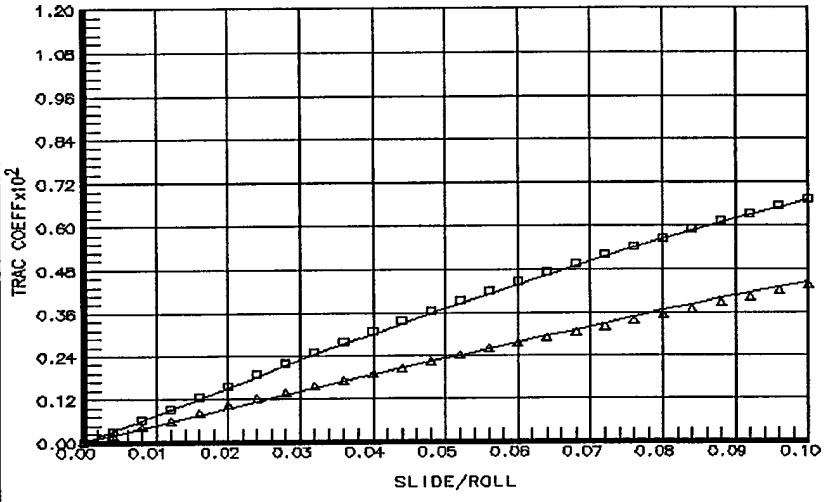
				XMU*	ALFA*	BETA*
△ 877MPA	222N	5.23M/S	344K # 44	7.701E-02	5.200E-09	4.164E-02
□ 1014MPA	342N	5.23M/S	344K # 45	7.701E-02	5.200E-09	4.164E-02



AI 85-42 PropLab #079-16 MIL-L-7808

NEWTONIAN MODEL TYPE 1 ai10.dat

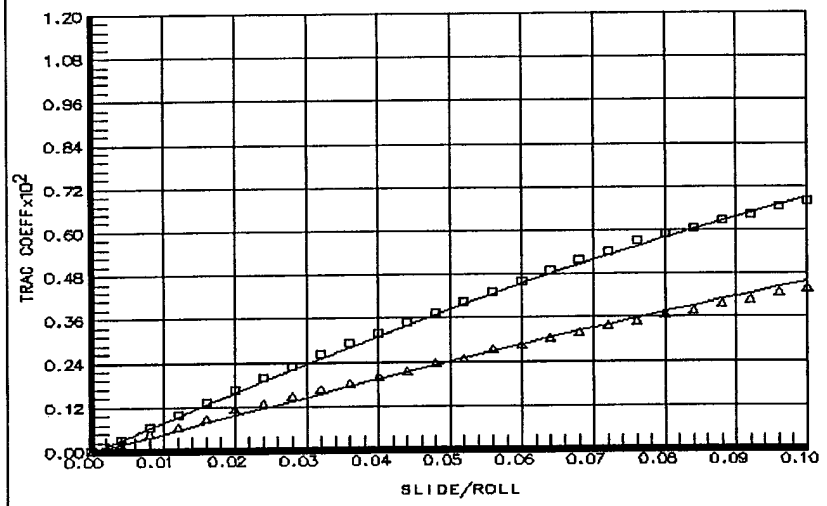
				XMU*	ALFA*	BETA*
△ 876MPA	222N	9.74M/S	344K # 49	5.554E-02	5.200E-09	4.362E-02
□ 1014MPA	342N	9.74M/S	344K # 50	5.554E-02	5.200E-09	4.362E-02



AI 85-42 PropLab #079-16 MIL-L-7808

NEWTONIAN MODEL TYPE 1 ai11.dat

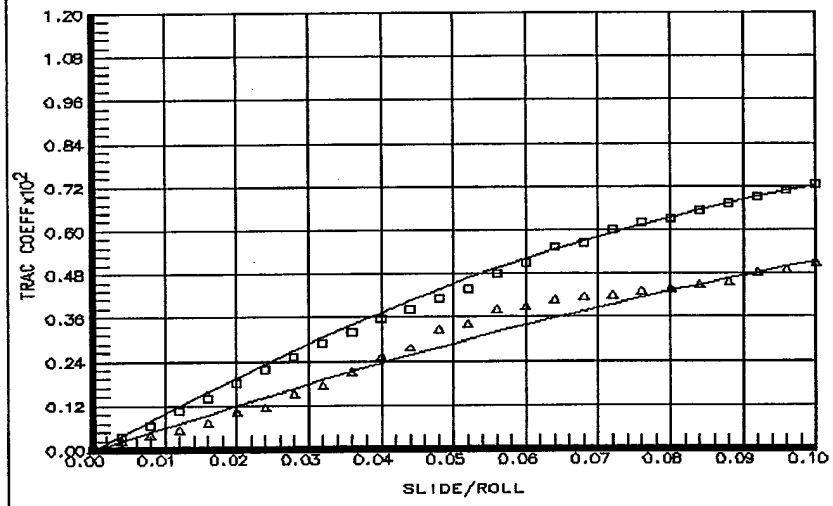
				XMU*	ALFA*	BETA*
△ 876MPA	222N	14.06M/S	344K # 54	4.336E-02	5.200E-09	2.935E-02
□ 1014MPA	342N	14.06M/S	344K # 55	4.336E-02	5.200E-09	2.935E-02



AI 85-42 PropLab #079-16 MIL-L-7808

NEWTONIAN MODEL TYPE 1 ai12.dat

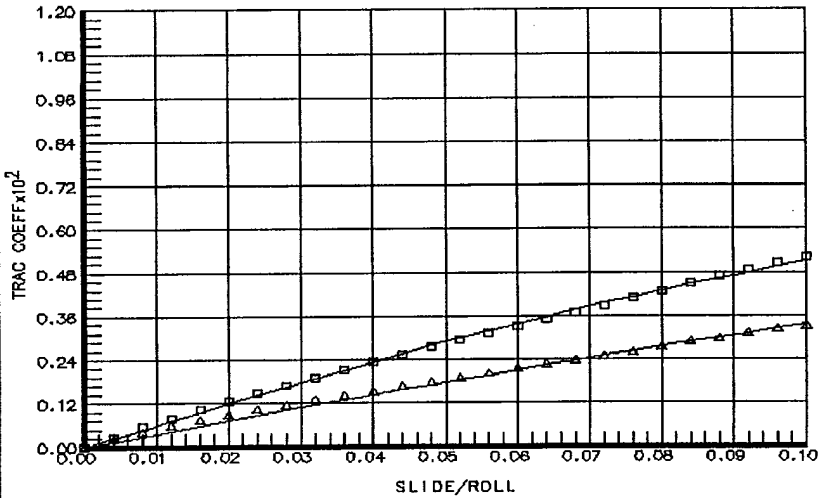
				XMU*	ALFA*	BETA*
△ 876MPA	222N	21.15M/S	344K # 59	4.022E-02	5.200E-09	3.668E-02
□ 1013MPA	342N	21.15M/S	344K # 60	4.022E-02	5.200E-09	3.668E-02



AI 85-42 PropLab #079-16 MIL-L-7808

NEWTONIAN MODEL TYPE 1 ai13.dat

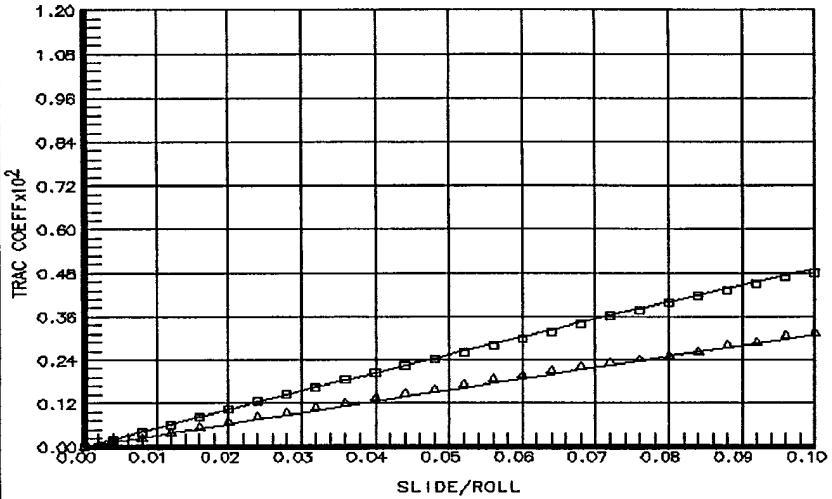
					XMU*	ALFA*	BETA*
△	877MPA	222N	5.23M/S	367K # 64	5.003E-02	5.200E-09	1.973E-01
□	1015MPA	342N	5.23M/S	367K # 65	5.003E-02	5.200E-09	1.973E-01



AI 85-42 PropLab #079-16 MIL-L-7808

NEWTONIAN MODEL TYPE 1 ai14.dat

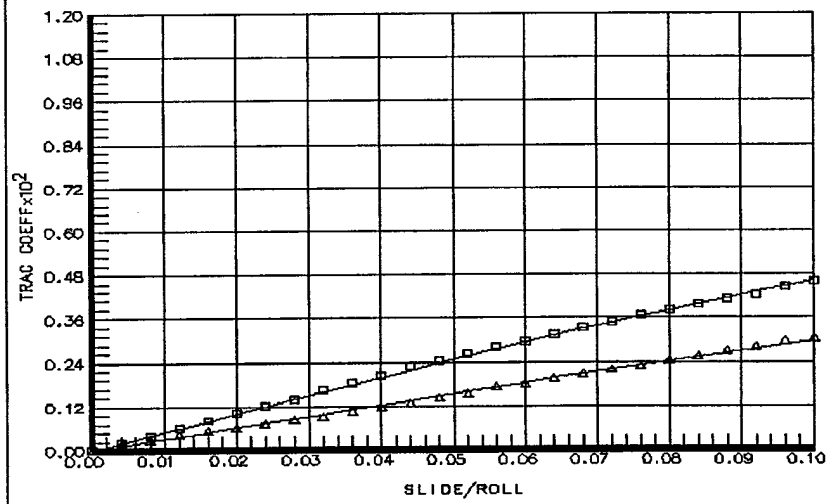
					XMU*	ALFA*	BETA*
△	877MPA	222N	9.74M/S	367K # 69	2.655E-02	5.200E-09	3.318E-02
□	1015MPA	342N	9.74M/S	367K # 70	2.655E-02	5.200E-09	3.318E-02



AI 85-42 PropLab #079-16 MIL-L-7808

NEWTONIAN MODEL TYPE 1 ai15.dat

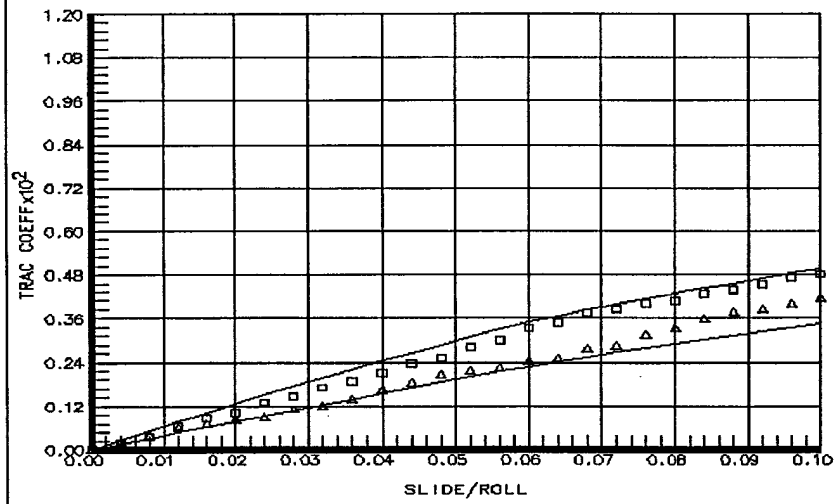
					XMU*	ALFA*	BETA*
△	877MPA	222N	14.08M/S	367K # 74	2.131E-02	5.200E-09	3.527E-02
□	1015MPA	342N	14.08M/S	367K # 75	2.131E-02	5.200E-09	3.527E-02



AI 85-42 PropLab #079-16 MIL-L-7808

NEWTONIAN MODEL TYPE 1 ai16.dat

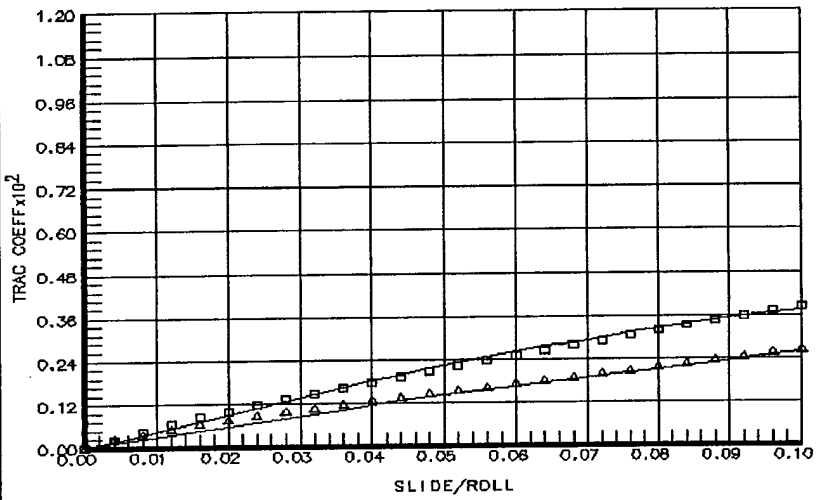
					XMU*	ALFA*	BETA*
△	878MPA	222N	21.15M/S	367K # 79	2.147E-02	5.200E-09	5.324E-02
□	1016MPA	342N	21.15M/S	367K # 80	2.147E-02	5.200E-09	5.324E-02



AI 85-42 PropLab #079-16 MIL-L-7808

NEWTONIAN MODEL TYPE 1 ai17.dat

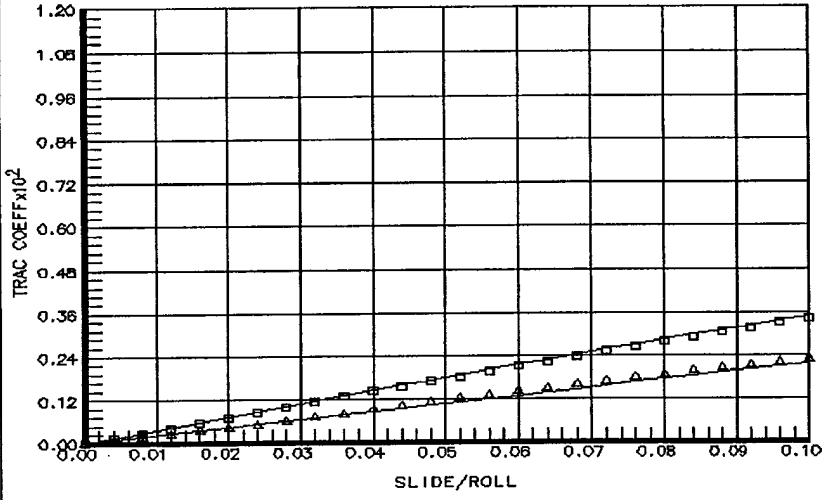
					XMU*	ALFA*	BETA*
△	875MPA	222N	5.23M/S	389K # 84	4.816E-02	5.200E-09	4.165E-01
□	1013MPA	342N	5.23M/S	389K # 86	4.816E-02	5.200E-09	4.165E-01



AI 85-42 PropLab #079-16 MIL-L-7808

NEWTONIAN MODEL TYPE 1 ai18.dat

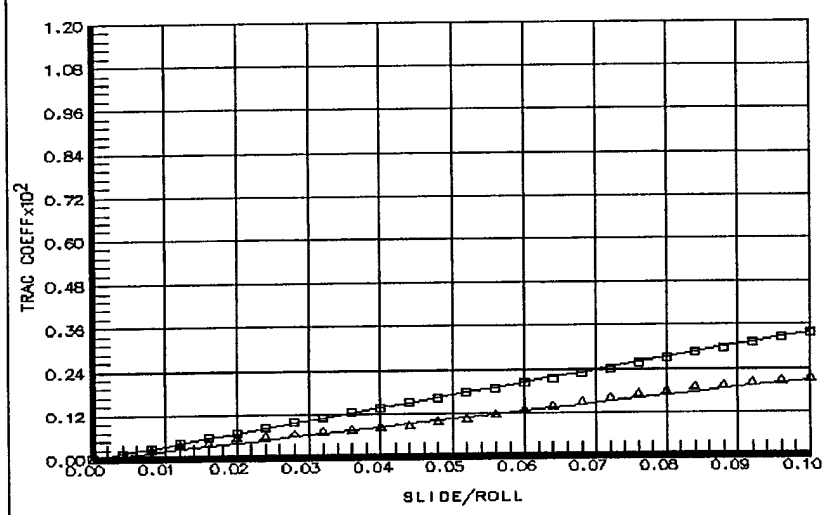
					XMU*	ALFA*	BETA*
△	875MPA	222N	9.74M/S	389K # 89	1.562E-02	5.200E-09	5.922E-02
□	1013MPA	342N	9.74M/S	389K # 90	1.562E-02	5.200E-09	5.922E-02



AI 85-42 PropLab #079-16 MIL-L-7808

NEWTONIAN MODEL TYPE 1 ai19.dat

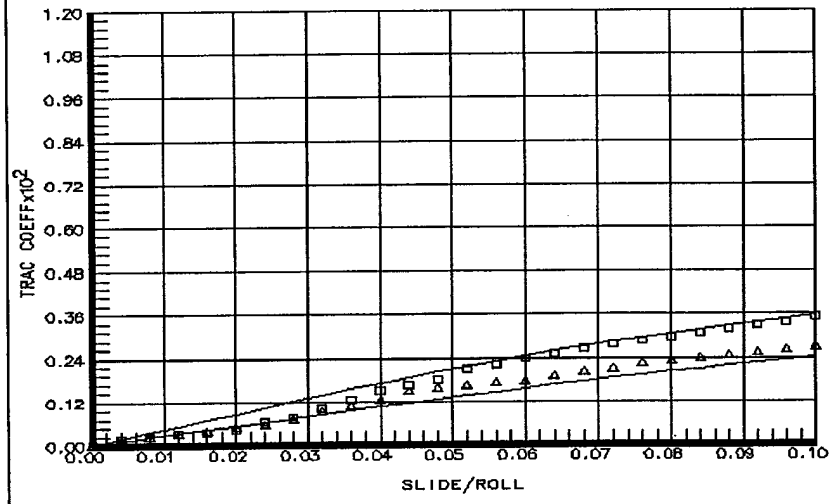
					XMU*	ALFA*	BETA*
△	875MPA	222N	14.08M/S	389K # 94	1.131E-02	5.200E-09	1.648E-02
□	1013MPA	342N	14.08M/S	389K # 95	1.131E-02	5.200E-09	1.648E-02



AI 85-42 PropLab #079-16 MIL-L-7808

NEWTONIAN MODEL TYPE 1 ai20.dat

					XMU*	ALFA*	BETA*
△	874MPA	222N	21.15M/S	389K # 99	1.318E-02	5.200E-09	7.363E-02
□	1013MPA	342N	21.15M/S	389K #100	1.318E-02	5.200E-09	7.363E-02



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3. Traction Data Set B: RL-714 Mobil Base Oil

Data set name: AC RL-714 Mobil 28 base oil
Rolling radii [Disks 1 & 2] (in): 0.54 0.54
Crown radii [Disks 1 & 2] (in): 35.10 43.90

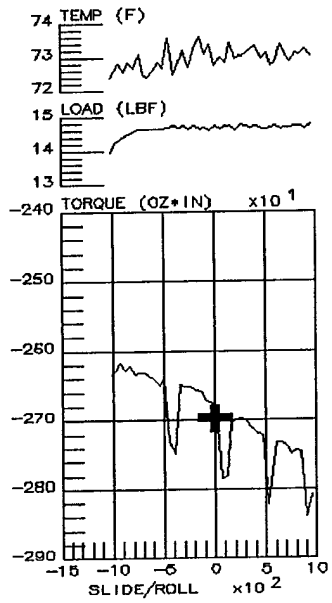
Number of data sets found = 48

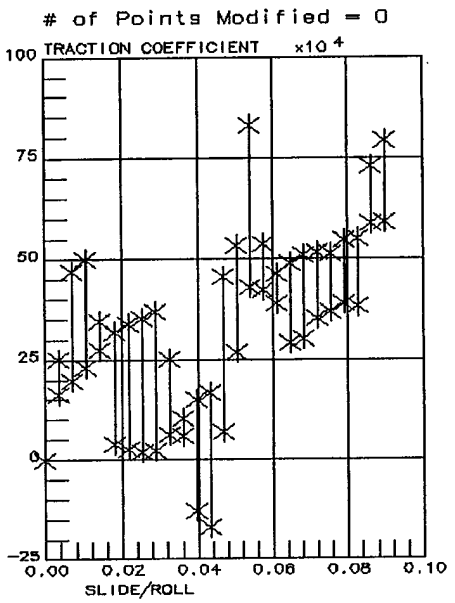
	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
1	77.00	13.42	4570.00	5050.00	4810.00	41	m28ac #1
2	77.00	34.72	4570.00	5050.00	4810.00	41	m28ac #2
3	77.00	68.80	4570.00	5050.00	4810.00	41	m28ac #3
4	77.00	120.63	4570.00	5050.00	4810.00	41	m28ac #4
5	77.00	13.42	5370.00	6570.00	5970.00	41	m28ac #5
6	77.00	34.72	5370.00	6570.00	5970.00	41	m28ac #6
7	77.00	68.80	5370.00	6570.00	5970.00	41	m28ac #7
8	77.00	120.63	5370.00	6570.00	5970.00	41	m28ac #8
9	77.00	13.42	6490.00	7930.00	7210.00	41	m28ac #9
10	77.00	34.72	6490.00	7930.00	7210.00	41	m28ac #10
11	77.00	68.80	6490.00	7930.00	7210.00	41	m28ac #11
12	77.00	120.63	6490.00	7930.00	7210.00	41	m28ac #12
13	104.00	13.42	4570.00	5050.00	4810.00	41	m28ac #13
14	104.00	34.72	4570.00	5050.00	4810.00	41	m28ac #14
15	104.00	68.80	4570.00	5050.00	4810.00	41	m28ac #15
16	104.00	120.63	4570.00	5050.00	4810.00	41	m28ac #16
17	104.00	13.42	5370.00	6570.00	5970.00	41	m28ac #17
18	104.00	34.72	5370.00	6570.00	5970.00	41	m28ac #18
19	104.00	68.80	5370.00	6570.00	5970.00	41	m28ac #19
20	104.00	120.63	5370.00	6570.00	5970.00	41	m28ac #20
21	104.00	13.42	6490.00	7930.00	7210.00	41	m28ac #21
22	104.00	34.72	6490.00	7930.00	7210.00	41	m28ac #22
23	104.00	68.80	6490.00	7930.00	7210.00	41	m28ac #23
24	104.00	120.63	6490.00	7930.00	7210.00	41	m28ac #24
25	131.00	13.42	4570.00	5050.00	4810.00	41	m28ac #25
26	131.00	34.72	4570.00	5050.00	4810.00	41	m28ac #26
27	131.00	68.80	4570.00	5050.00	4810.00	41	m28ac #27
28	131.00	120.63	4570.00	5050.00	4810.00	41	m28ac #28
29	131.00	13.42	5370.00	6570.00	5970.00	41	m28ac #29
30	131.00	34.72	5370.00	6570.00	5970.00	41	m28ac #30
31	131.00	68.80	5370.00	6570.00	5970.00	41	m28ac #31
32	131.00	120.63	5370.00	6570.00	5970.00	41	m28ac #32
33	131.00	13.42	6490.00	7930.00	7210.00	41	m28ac #33
34	131.00	34.72	6490.00	7930.00	7210.00	41	m28ac #34
35	131.00	68.80	6490.00	7930.00	7210.00	41	m28ac #35
36	131.00	120.63	6490.00	7930.00	7210.00	41	m28ac #36
37	200.00	13.42	4570.00	5050.00	4810.00	41	m28ac #37
38	200.00	34.72	4570.00	5050.00	4810.00	41	m28ac #38
39	200.00	68.80	4570.00	5050.00	4810.00	41	m28ac #39
40	200.00	120.63	4570.00	5050.00	4810.00	41	m28ac #40
41	200.00	13.42	5370.00	6570.00	5970.00	41	m28ac #41
42	200.00	34.72	5370.00	6570.00	5970.00	41	m28ac #42
43	200.00	68.80	5370.00	6570.00	5970.00	41	m28ac #43
44	200.00	120.63	5370.00	6570.00	5970.00	41	m28ac #44
45	200.00	13.42	6490.00	7930.00	7210.00	41	m28ac #45
46	200.00	34.72	6490.00	7930.00	7210.00	41	m28ac #46
47	200.00	68.80	6490.00	7930.00	7210.00	41	m28ac #47
48	200.00	120.63	6490.00	7930.00	7210.00	41	m28ac #48

Summary of Select Data Files

Filename	Temp	RollRpm	DataCurve #		
ac1.dat	77.00	4810.00	2	3	4
ac2.dat	77.00	5970.00	6	7	8
ac3.dat	77.00	7210.00	10	11	12
ac4.dat	104.00	4810.00	14	15	16
ac5.dat	104.00	5970.00	18	19	20
ac6.dat	104.00	7210.00	22	23	24
ac7.dat	131.00	4810.00	26	27	28
ac8.dat	131.00	5970.00	30	31	32
ac9.dat	131.00	7210.00	34	35	36
ac10.dat	200.00	4810.00	38	39	40
ac11.dat	200.00	5970.00	42	43	44
ac12.dat	200.00	7210.00	46	47	48

AC RL-714 Mobil 28 base oil #1
77F 13LBF 4810RPM 1 FILE: m28ac





AC RL-714 Mobil 28 base oil #2
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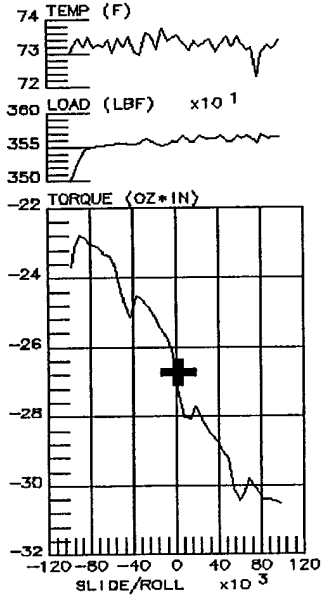

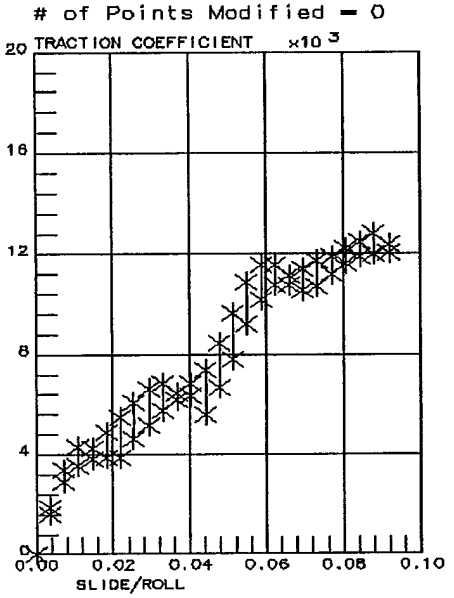

AC RL-714 Mobil 28 base oil #3
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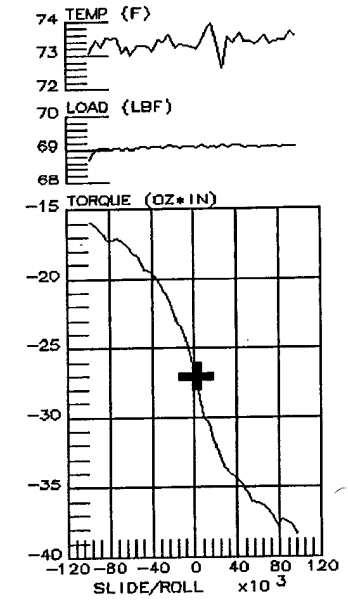

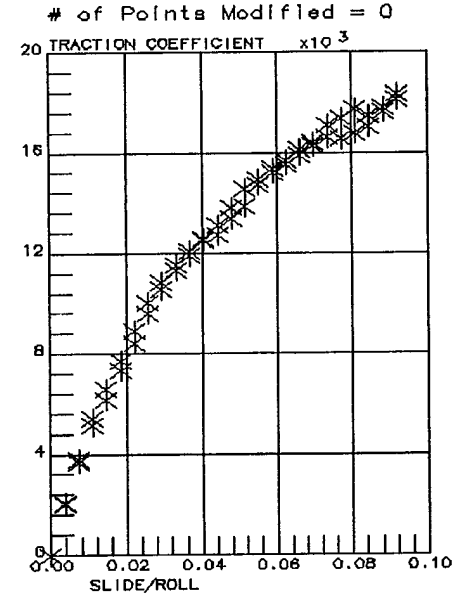

AC RL-714 Mobil 28 base oil #4
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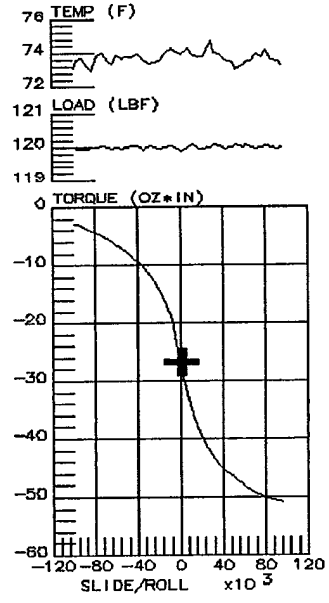
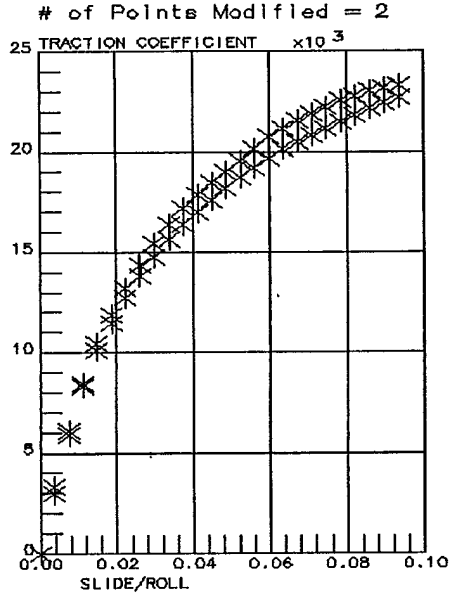
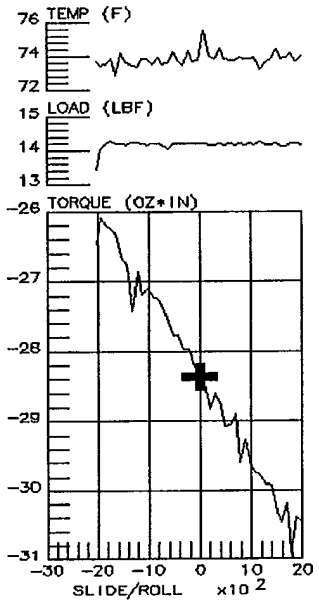
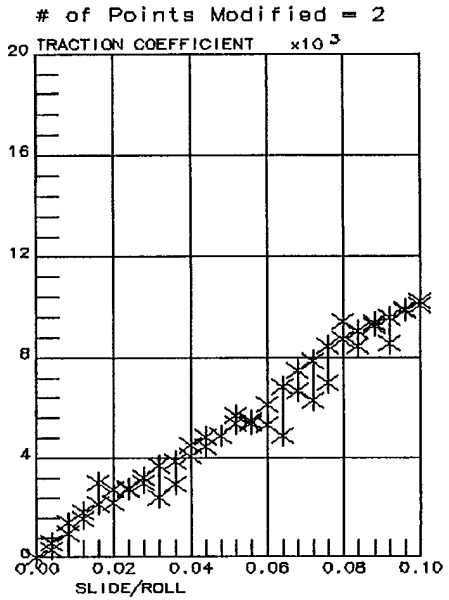


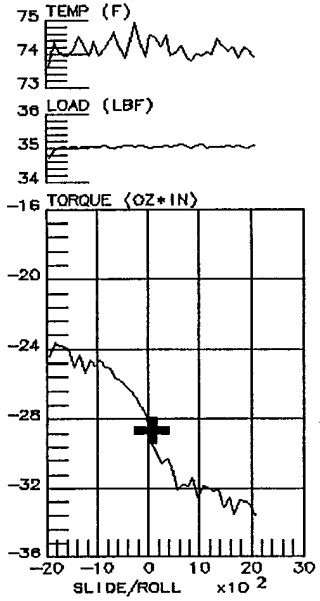


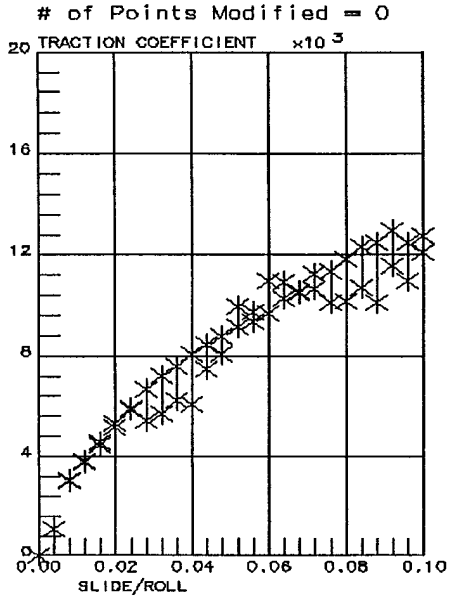
AC RL-714 Mobil 28 base oil #5
77F 13LBF 5970RPM 5 FILE: m28ac





AC RL-714 Mobil 28 base oil #6
77F 35LBF 5970RPM 6 FILE: m28ac





AC RL-714 Mobil 28 base oil #7
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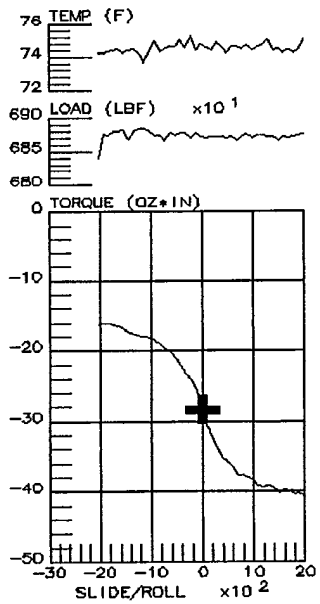

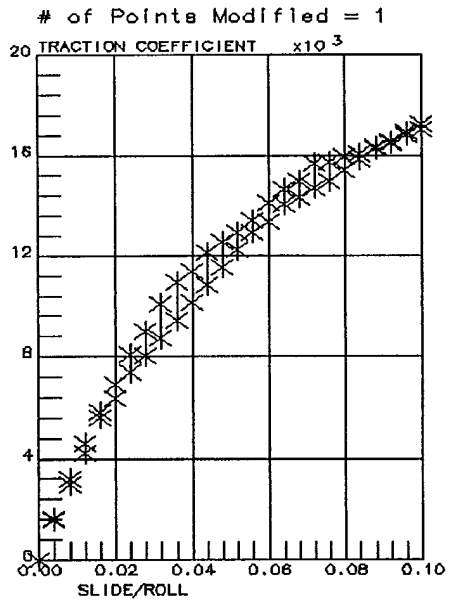

AC RL-714 Mobil 28 base oil #8
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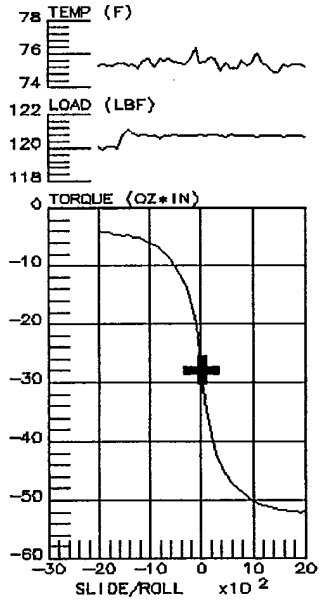
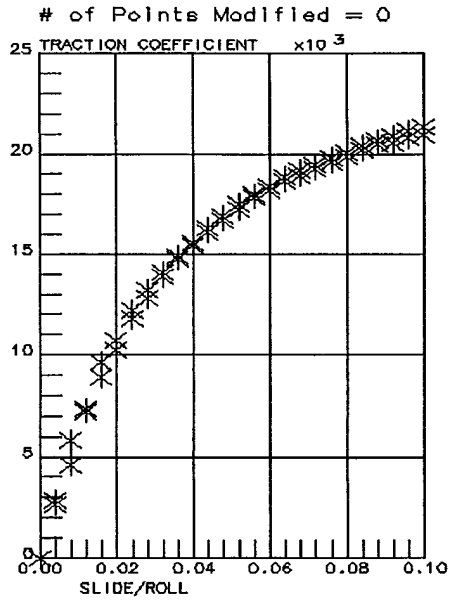
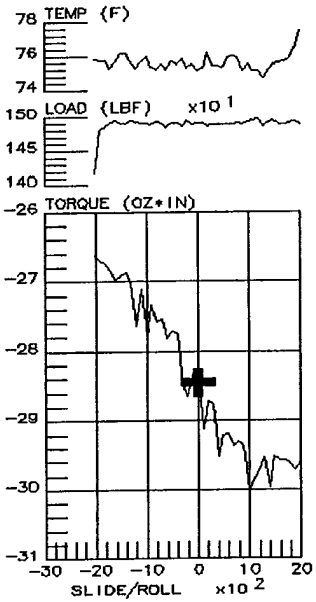




AC RL-714 Mobil 28 base oil #9
77F 13LBF 7210RPM 9 FILE: m28ac



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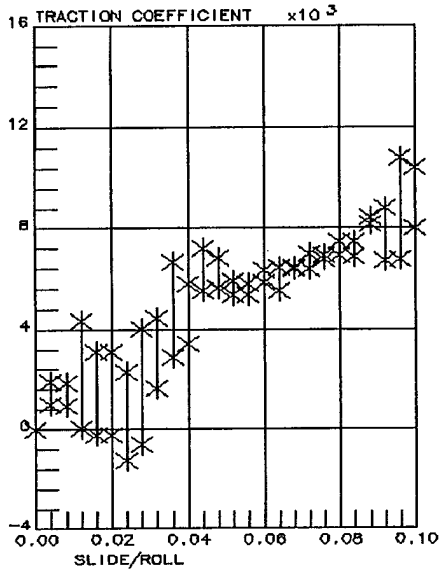

AC RL-714 Mobil 28 base oil #10
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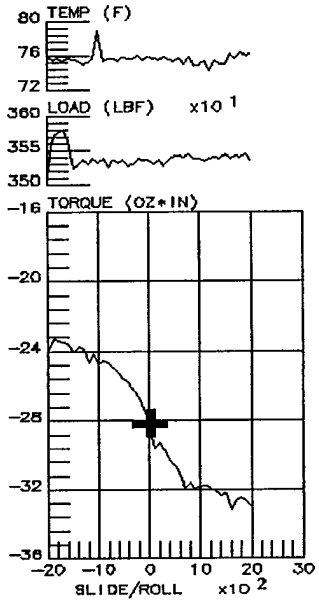

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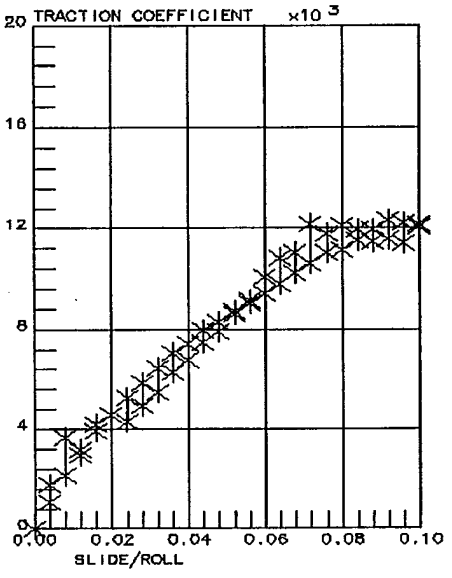

AC RL-714 Mobil 28 base oil #11
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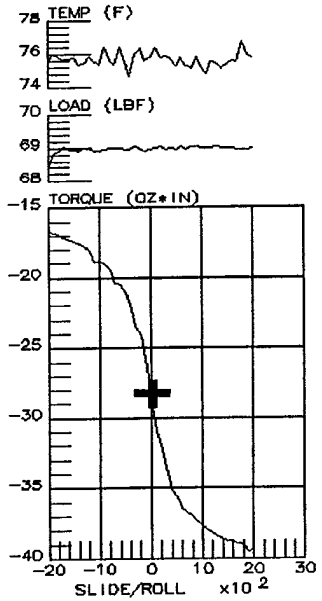

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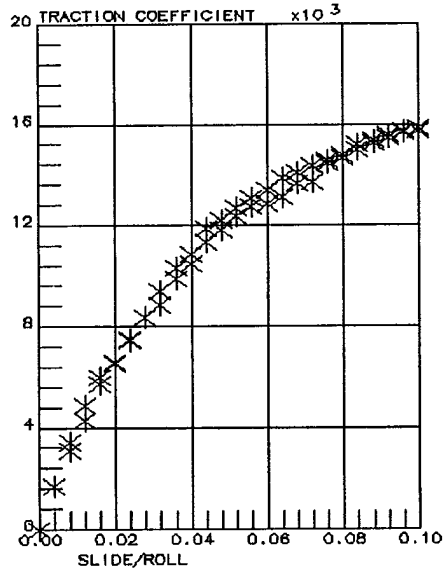

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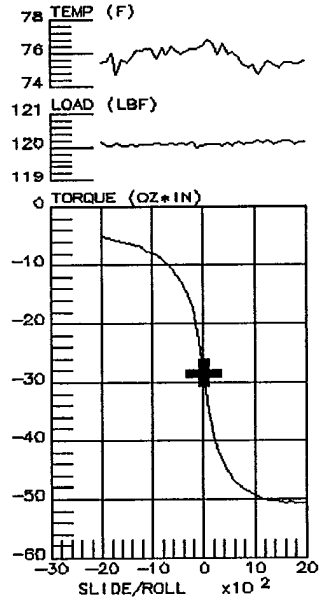

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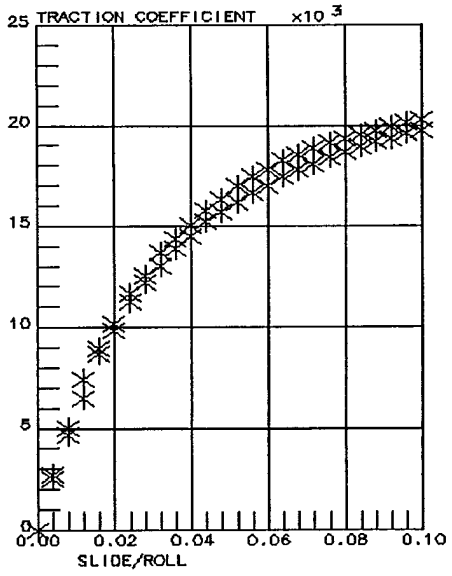

AC RL-714 Mobil 28 base oil #13
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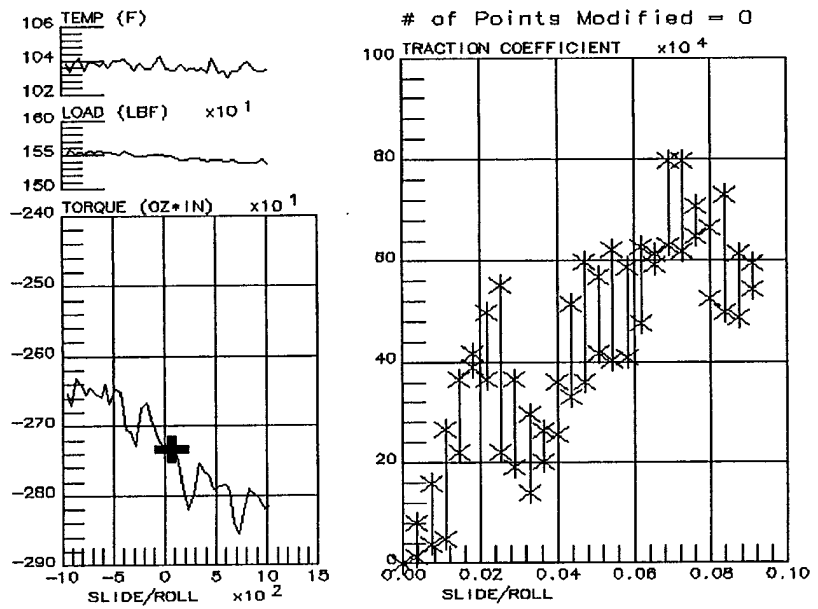

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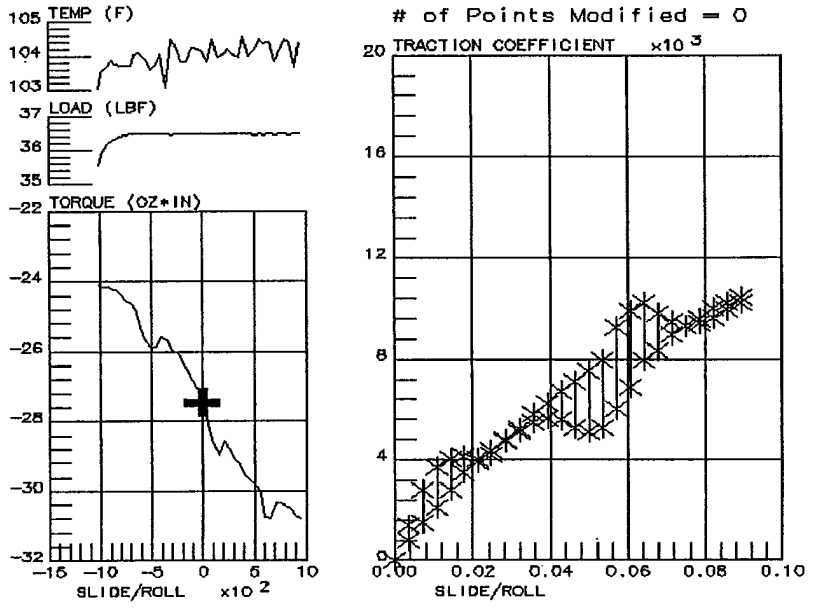

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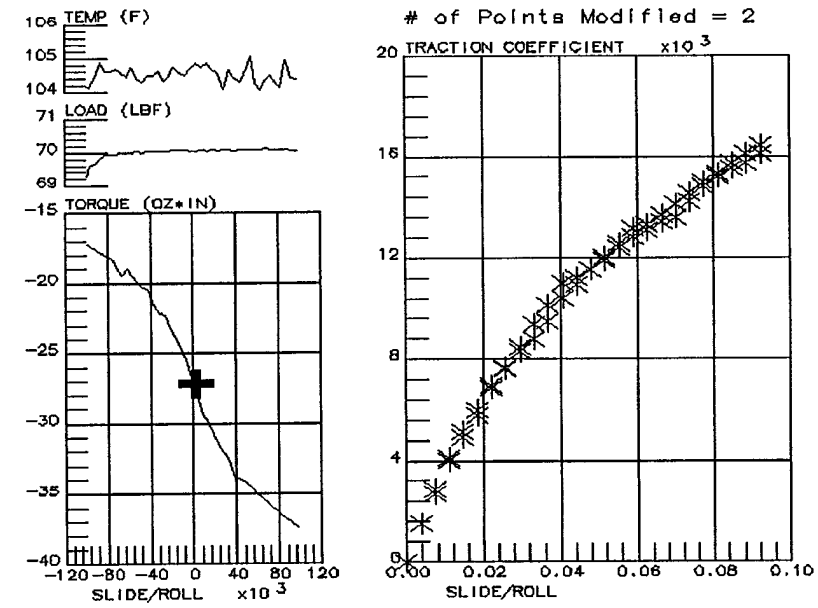

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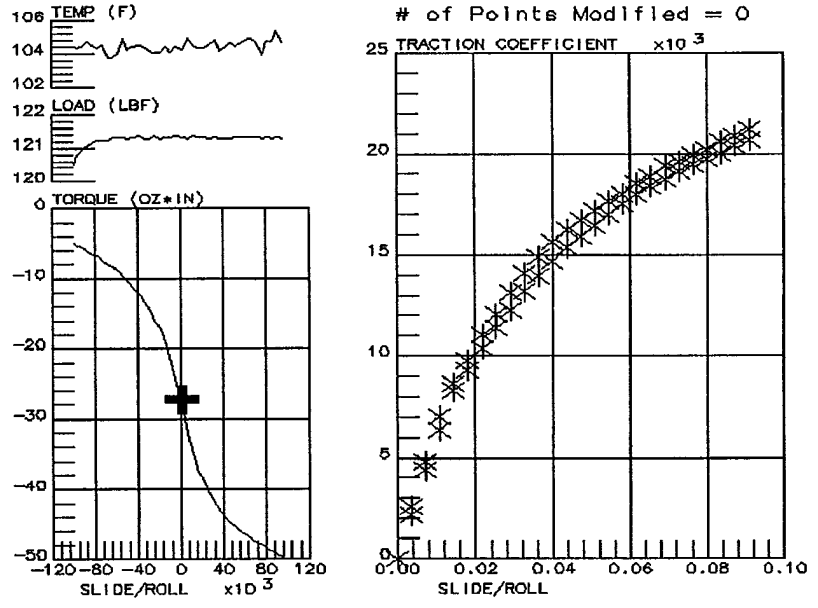

AC RL-714 Mobil 28 base oil #17
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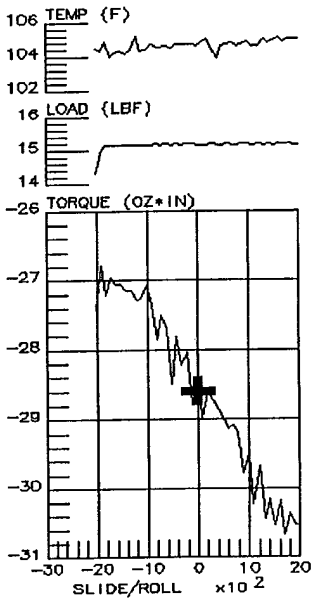

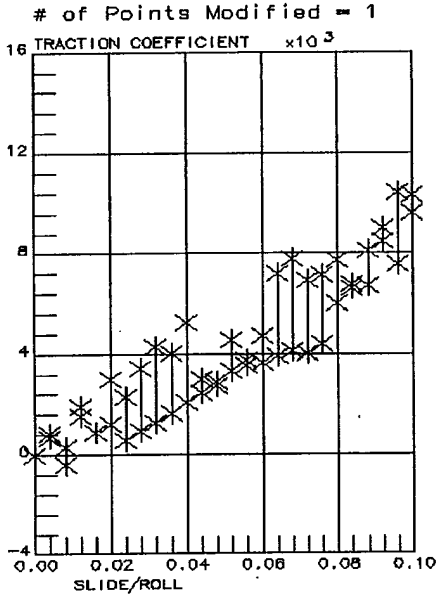

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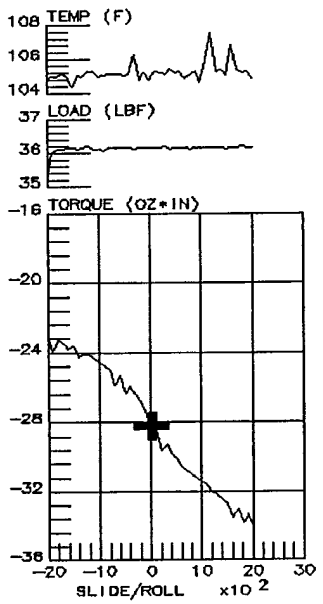

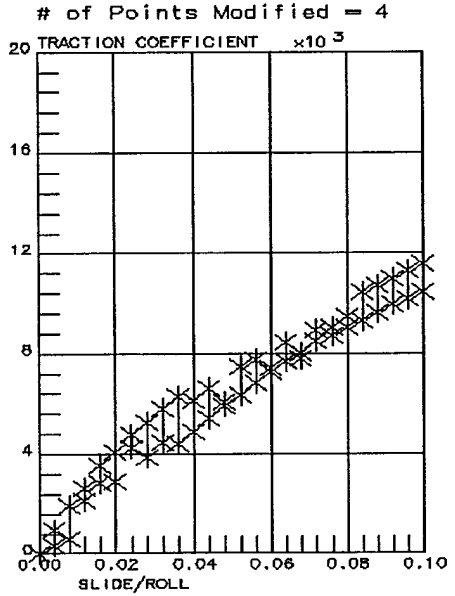

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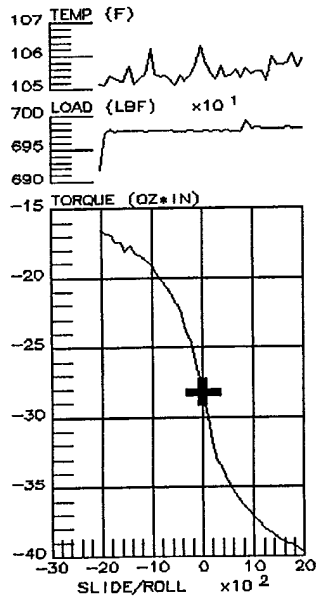

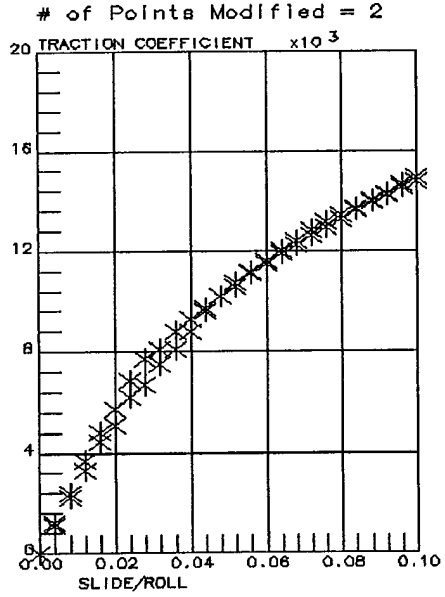

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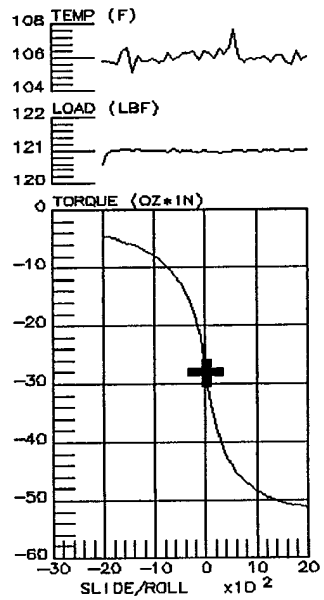

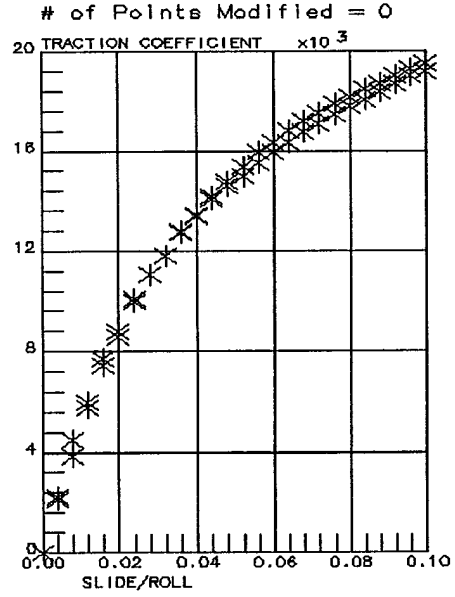

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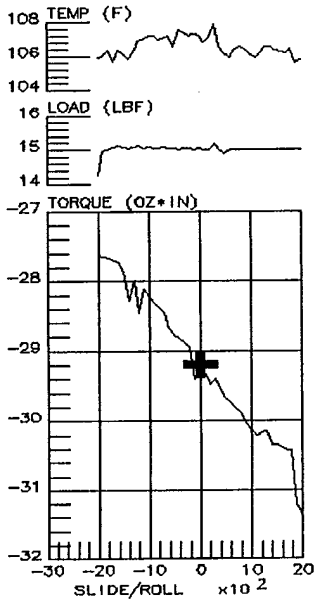

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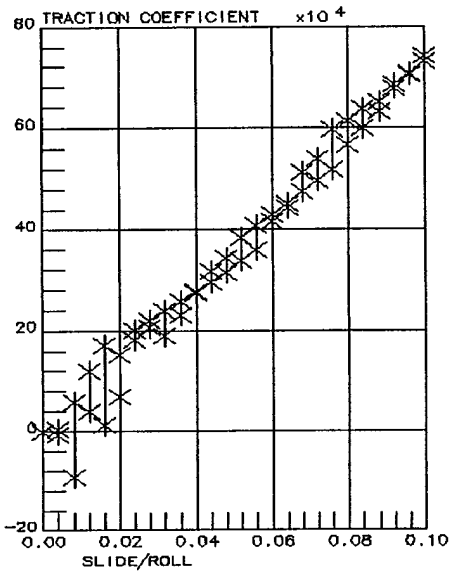

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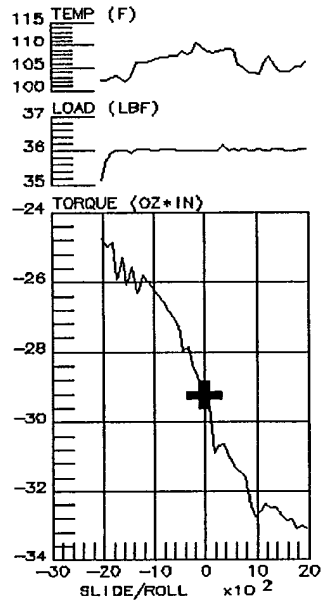

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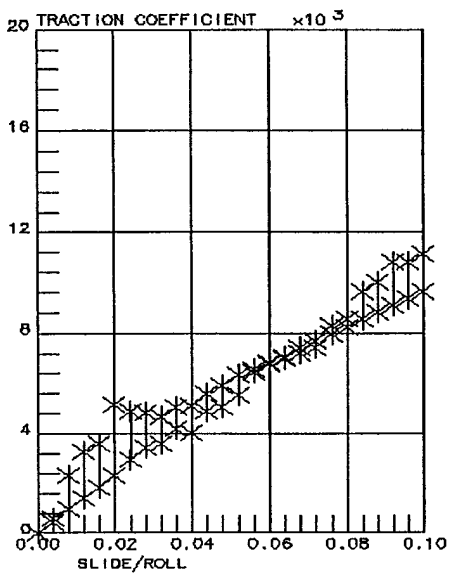

AC RL-714 Mobil 28 base oil #23
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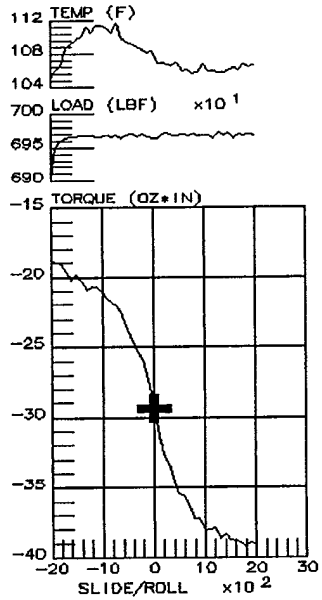

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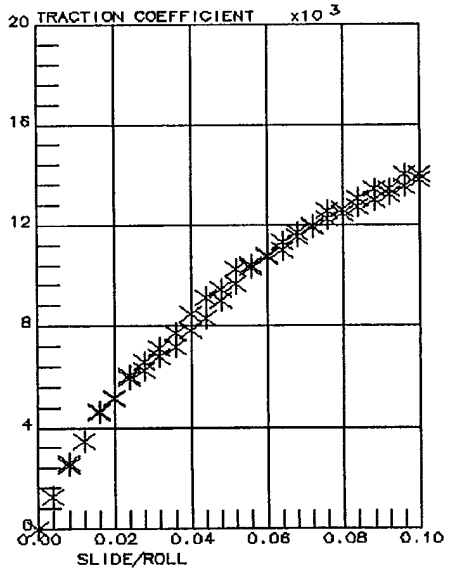

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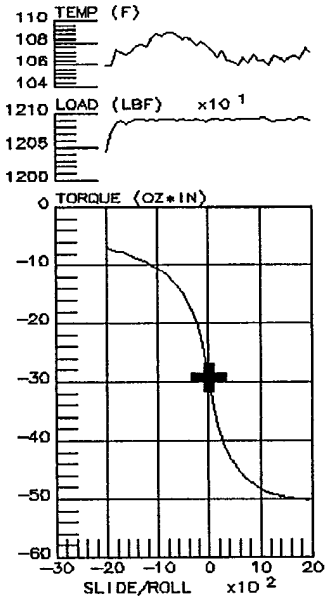

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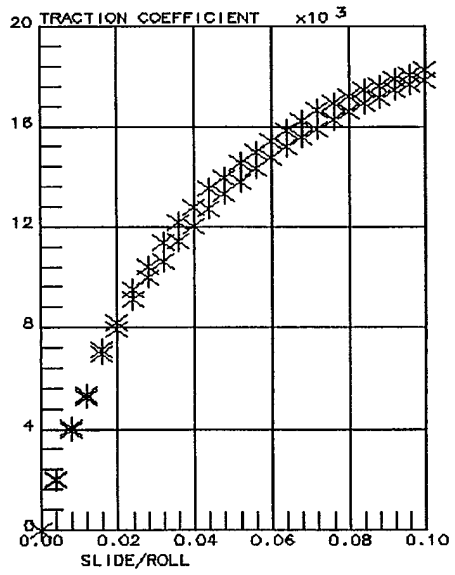
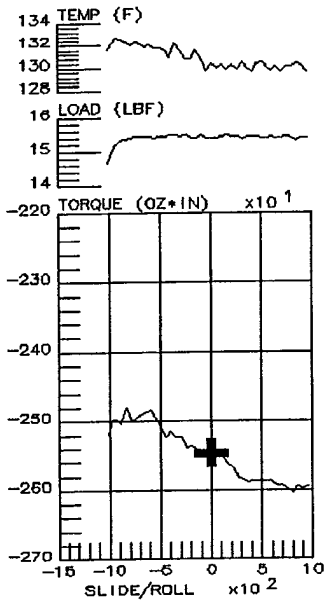
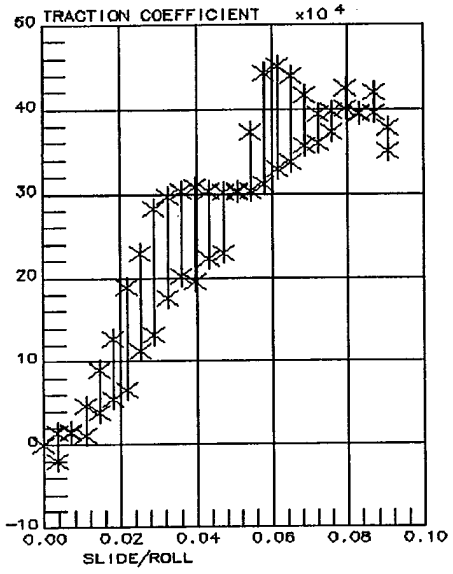


AC RL-714 Mobil 28 base oil #25
131F 13LBF 4810RPM 25 FILE: m28ac





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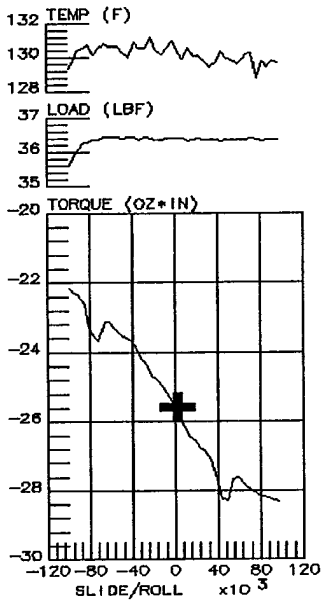

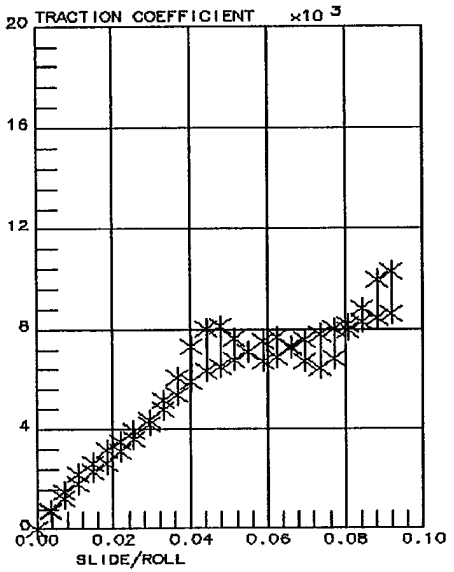

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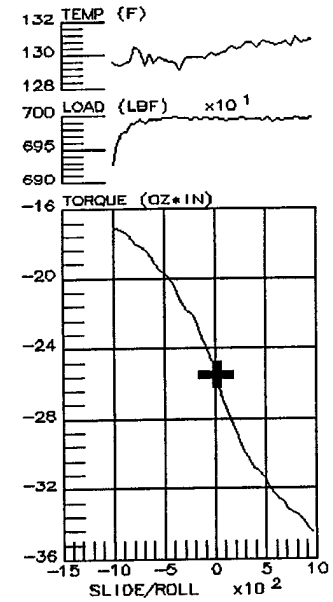

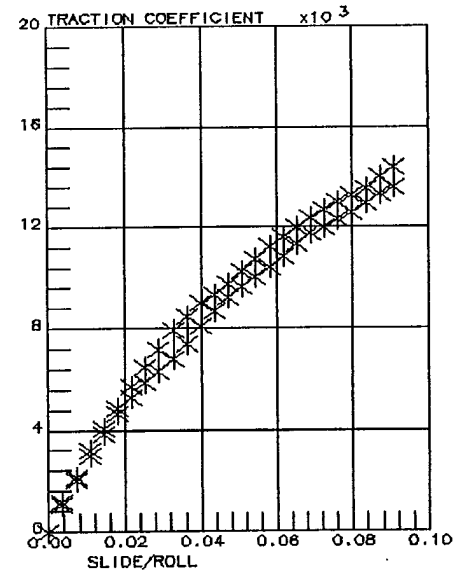

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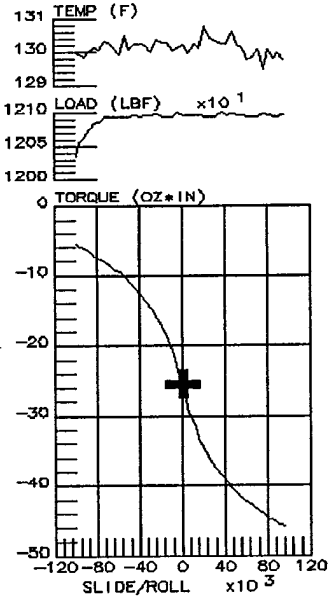
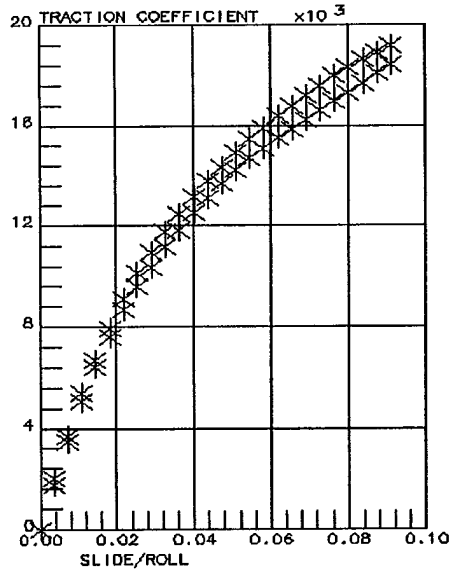
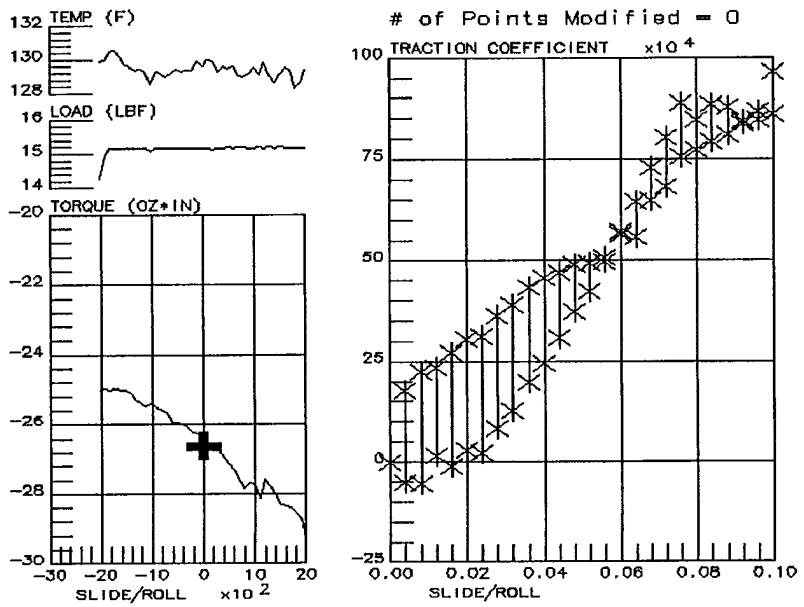
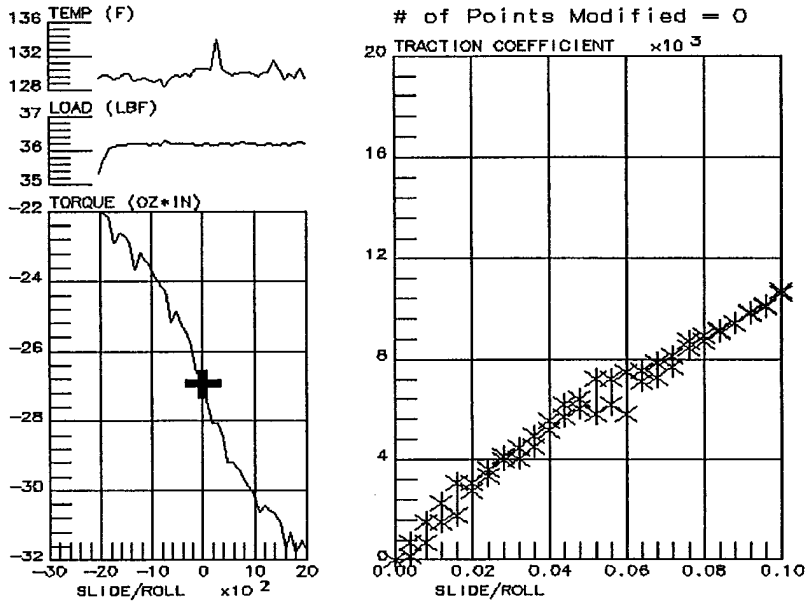




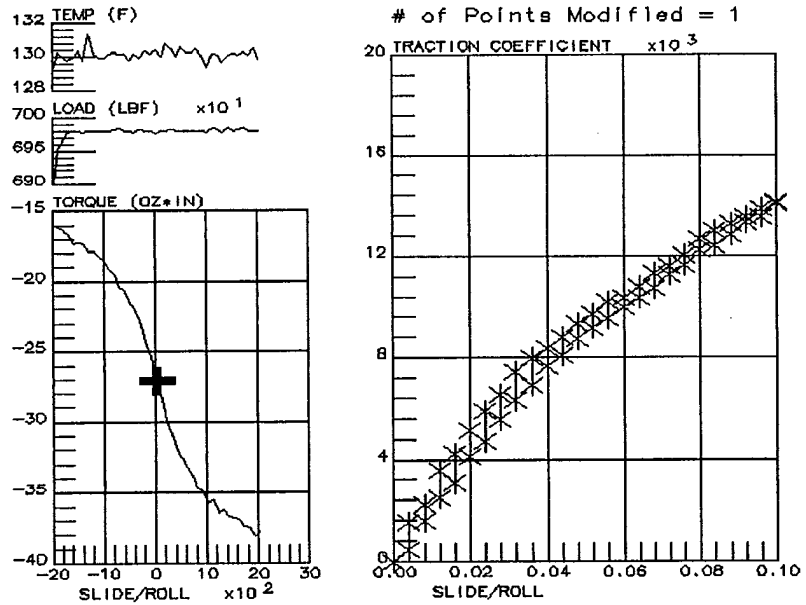
AC RL-714 Mobil 28 base oil #29
131F 13LBF 5970RPM 29 FILE: m28ac



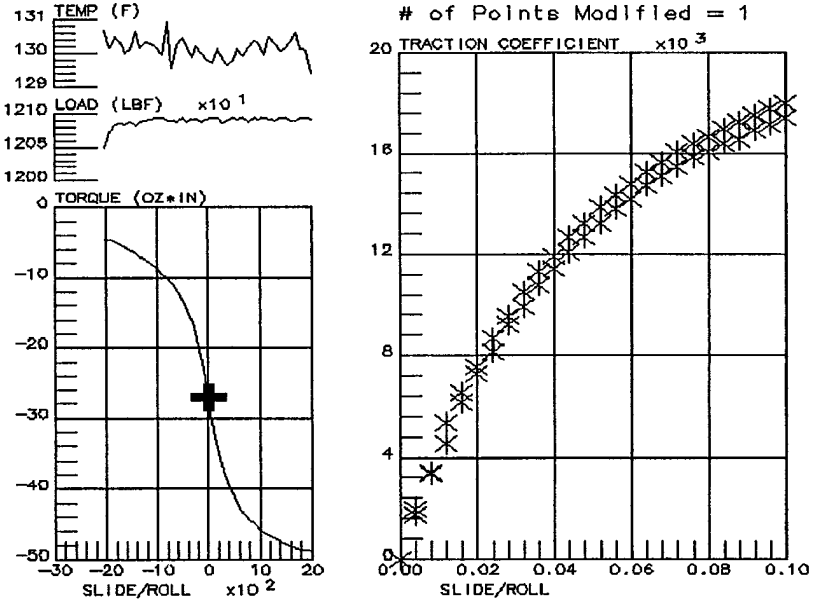
AC RL-714 Mobil 28 base oil #30
131F 35LBF 5970RPM 30 FILE: m28ac



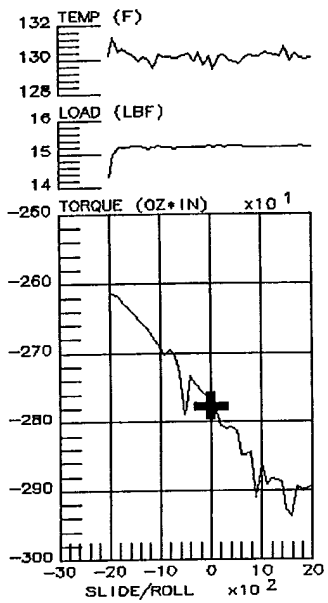
AC RL-714 Mobil 28 base oil #31
131F 69LBF 5970RPM 31 FILE: m28ac

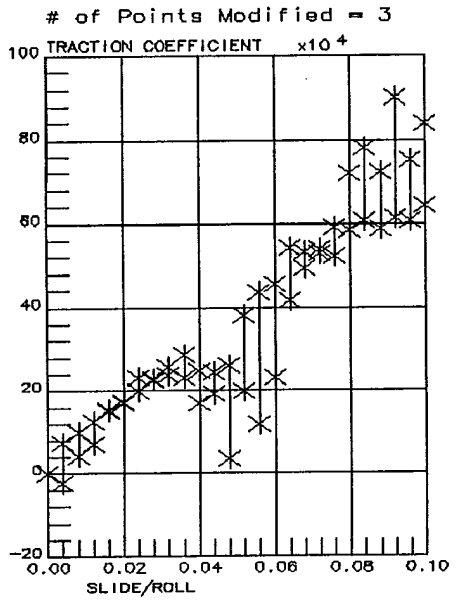


AC RL-714 Mobil 28 base oil #32
131F 121LBF 5970RPM 32 FILE: m28ac

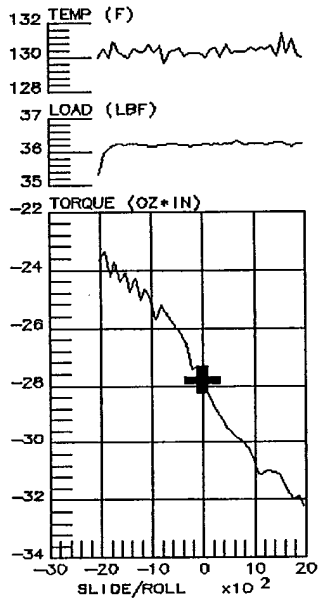


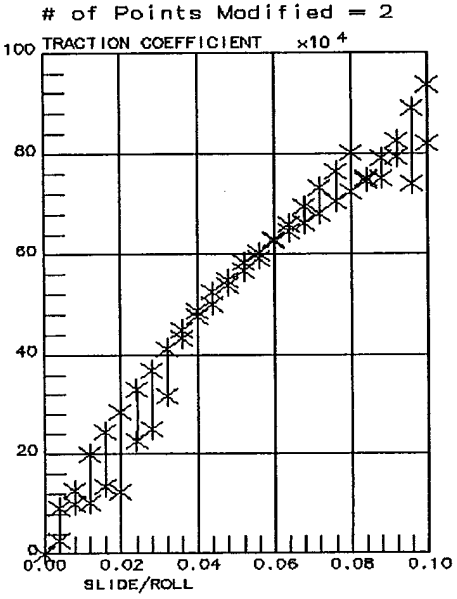
AC RL-714 Mobil 28 base oil #33
131F 13LBF 7210RPM 33 FILE: m28ac



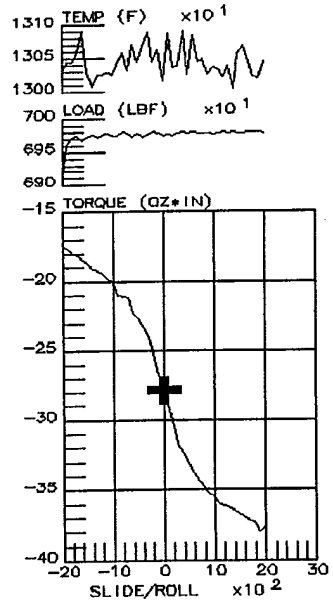


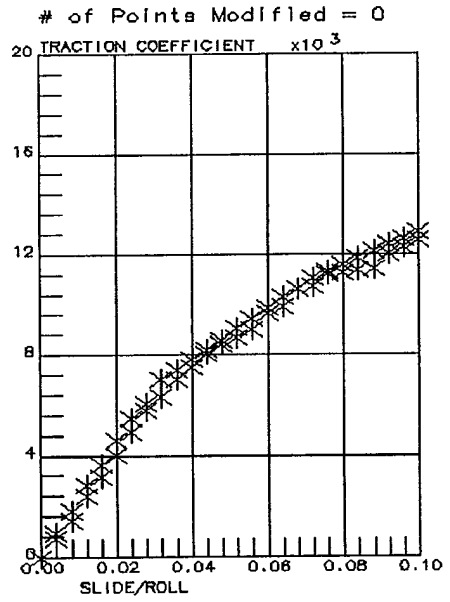
AC RL-714 Mobil 28 base oil #34
131F 35LBF 7210RPM 34 FILE: m28ac



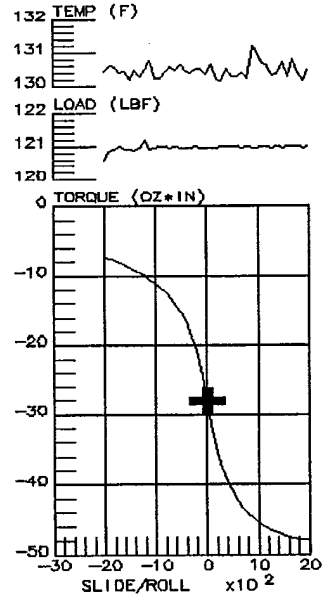


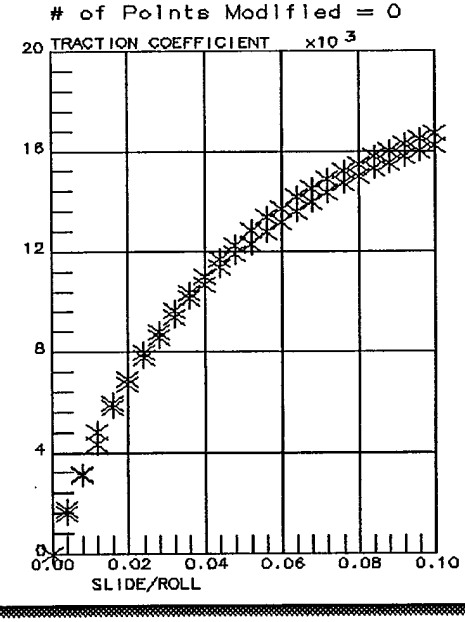
AC RL-714 Mobil 28 base oil #35
131F 69LBF 7210RPM 35 FILE: m28ac



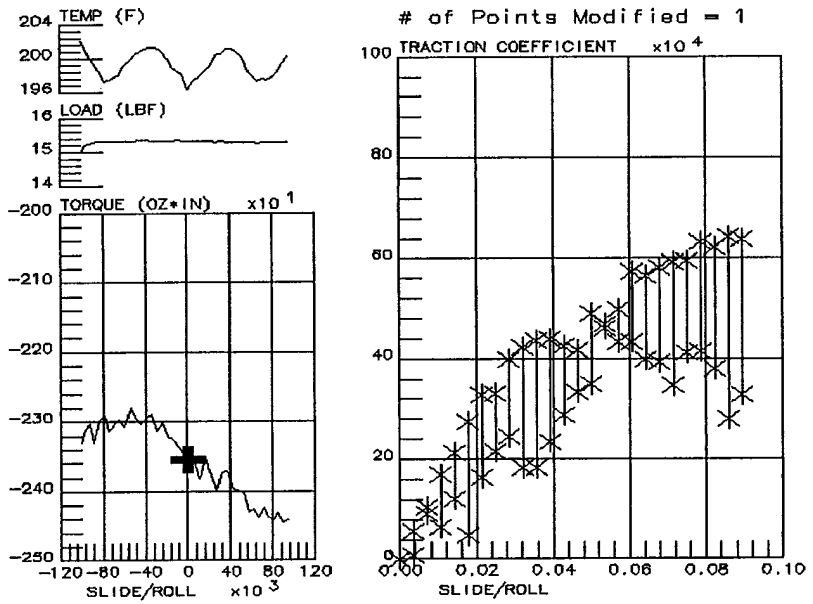


AC RL-714 Mobil 28 base oil #36
131F 121LBF 7210RPM 36 FILE: m28ac

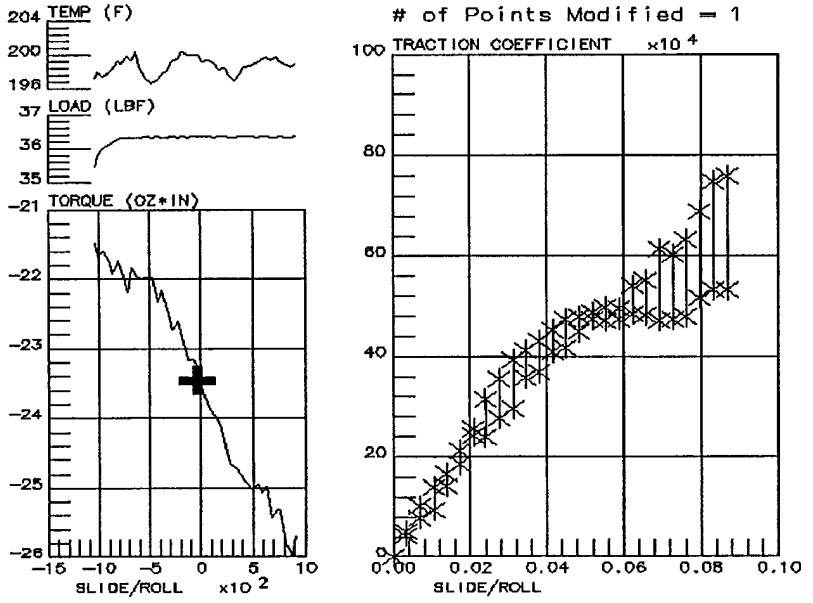




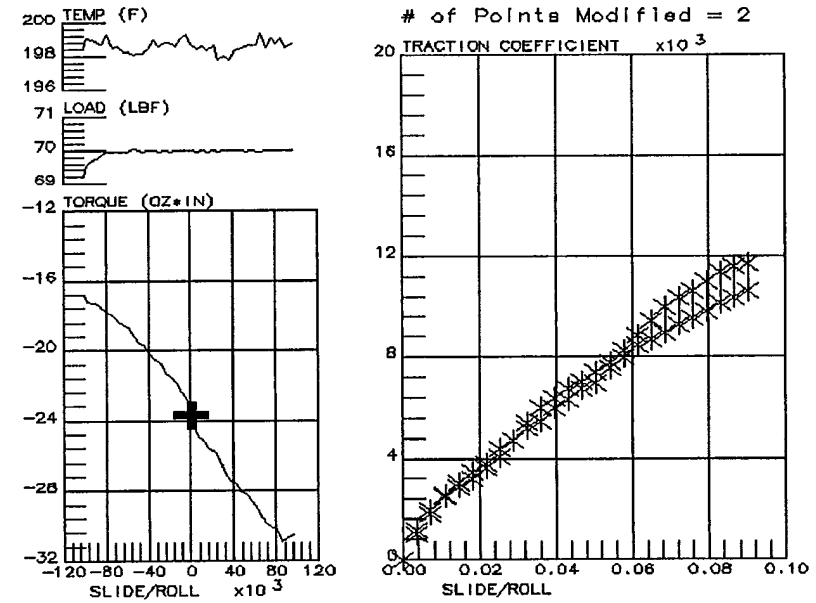
AC RL-714 Mobil 28 base oil #37
200F 13LBF 4810RPM 37 FILE: m28ac



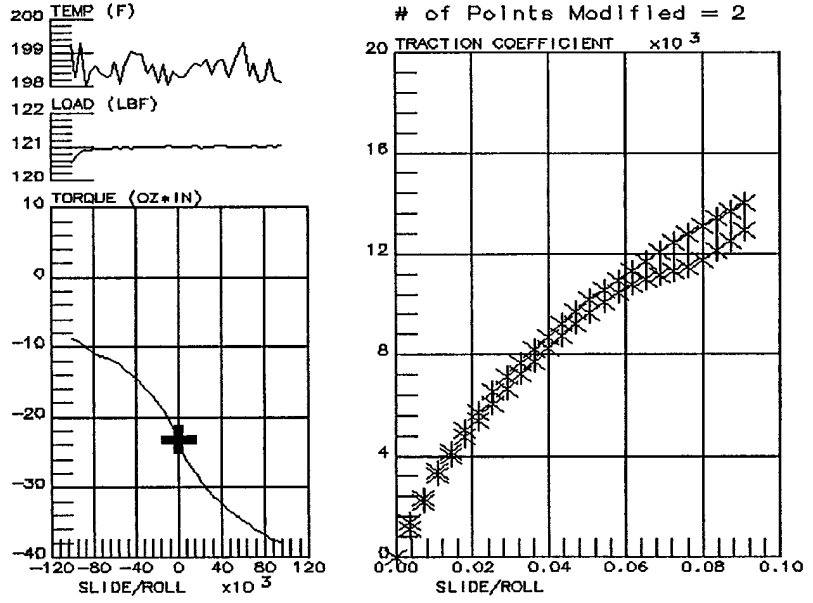
AC RL-714 Mobil 28 base oil #38
200F 35LBF 4810RPM 38 FILE: m28ac



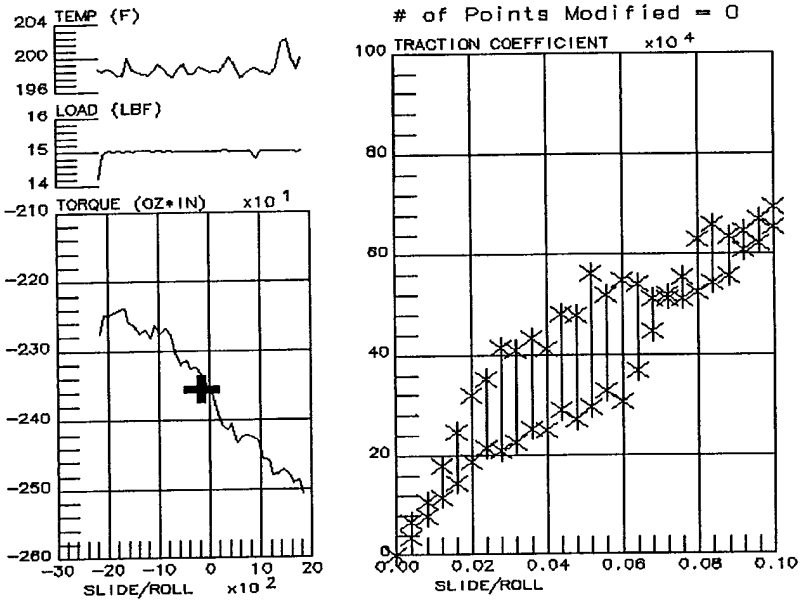
AC RL-714 Mobil 28 base oil #39
200F 69LBF 4810RPM 39 FILE: m28ac



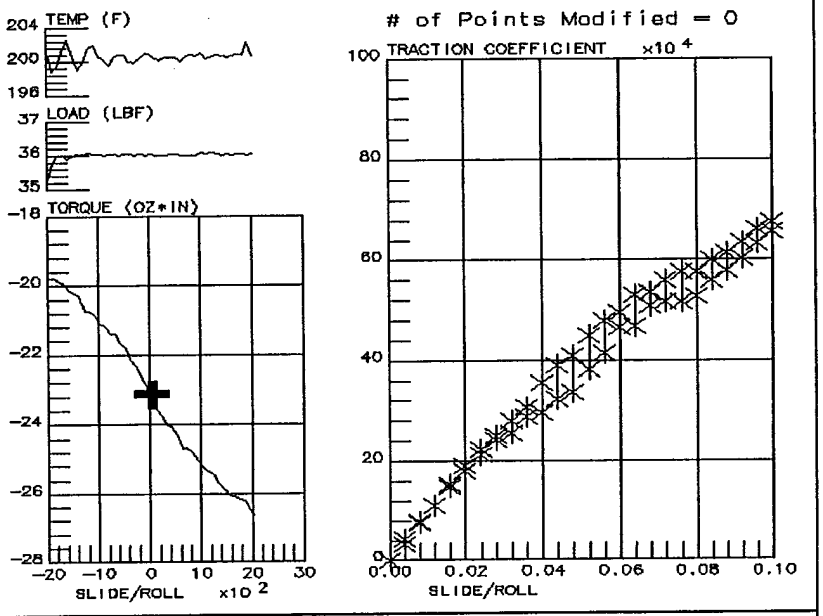
AC RL-714 Mobil 28 base oil #40
200F 121LBF 4810RPM 40 FILE: m28ac



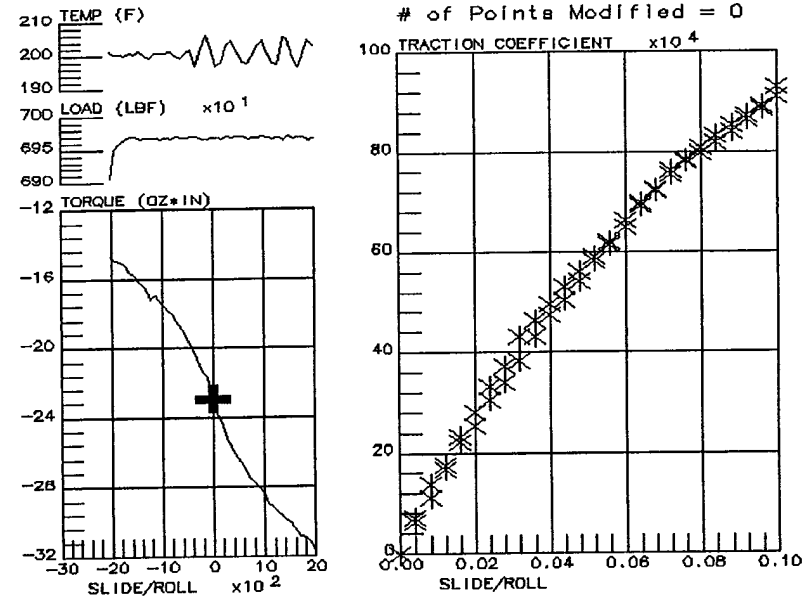
AC RL-714 Mobil 28 base oil #41
200F 13LBF 5970RPM 41 FILE: m28ac



AC RL-714 Mobil 28 base oil #42
200F 35LBF 5970RPM 42 FILE: m28ac



AC RL-714 Mobil 28 base oil #43
200F 69LBF 5970RPM 43 FILE: m28ac



AC RL-714 Mobil 28 base oil #44
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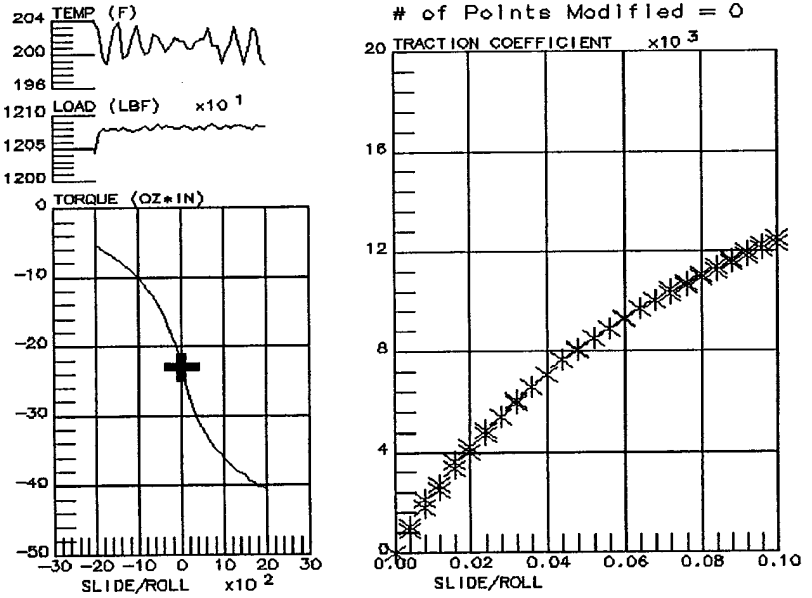
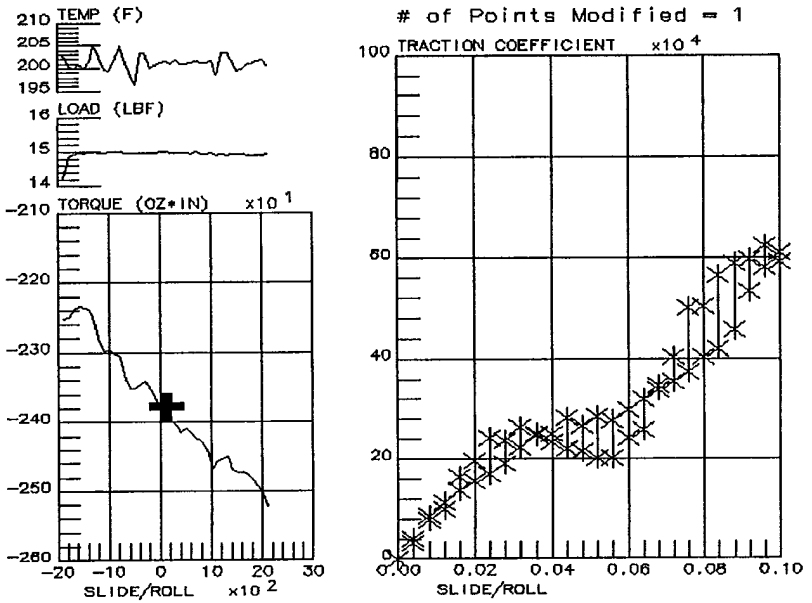
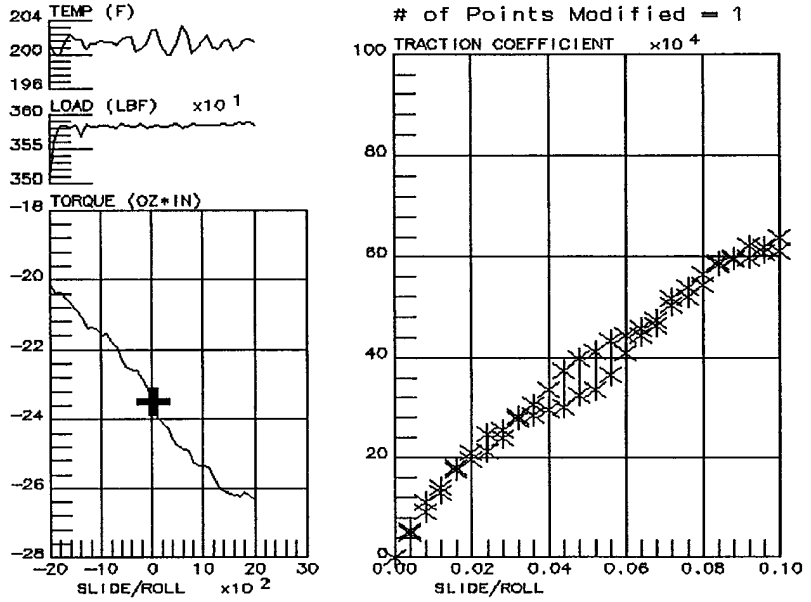


AC RL-714 Mobil 28 base oil #45
200F 13LBF 7210RPM 45 FILE: m28ac



AC RL-714 Mobil 28 base oil #46
200F 35LBF 7210RPM 46 FILE: m28ac



AC RL-714 Mobil 28 base oil #47
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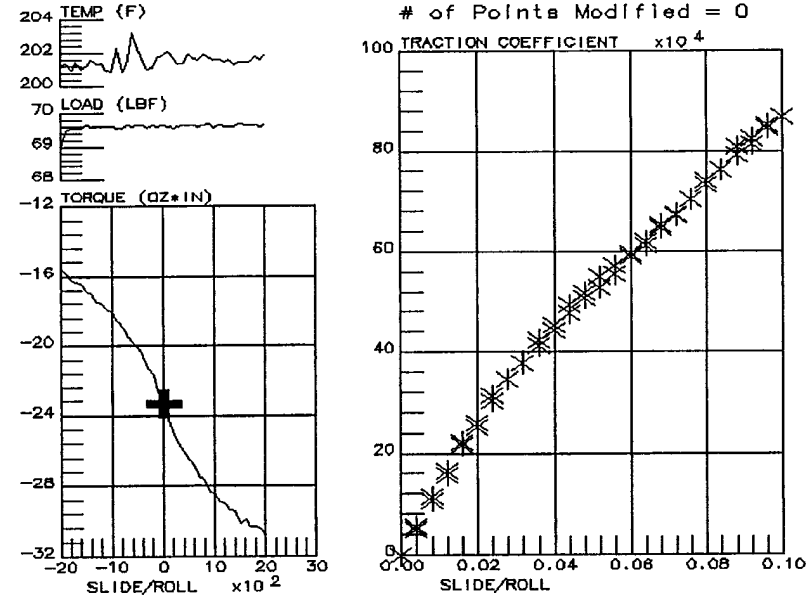

AC RL-714 Mobil 28 base oil #48
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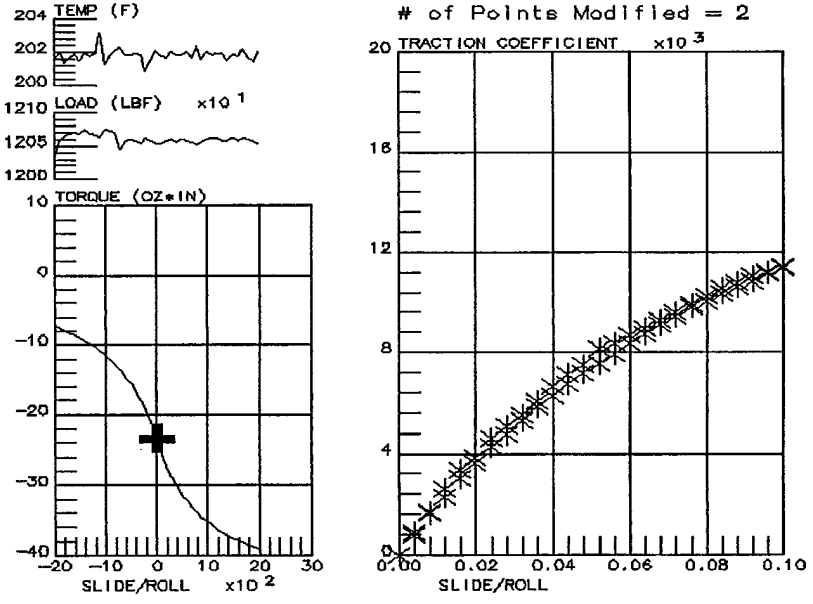


Lubricant name = AC RL-714 Mobil 28 base oil

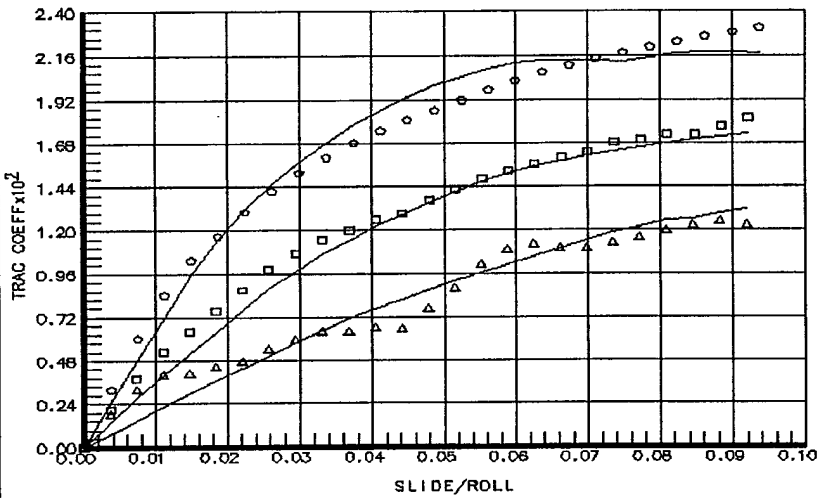
NEWTONIAN MODEL TYPE 1

Dataset Name	Inlet Temp (K)	Roll Velocity (M/S)	XMU* (Pa.S)	ALFA* (1/Pa)	BETA* (1/K)
ac1.dat	2.9833E+02	6.8768E+00	4.1893E-01	5.5000E-09	1.6127E-01
ac2.dat	2.9833E+02	8.5352E+00	3.8583E-01	5.5000E-09	1.2789E-01
ac3.dat	2.9833E+02	1.0308E+01	3.6764E-01	5.5000E-09	1.1743E-01
ac4.dat	3.1333E+02	6.8768E+00	3.2337E-01	5.5000E-09	2.0490E-01
ac5.dat	3.1333E+02	8.5352E+00	2.8329E-01	5.5000E-09	1.5890E-01
ac6.dat	3.1333E+02	1.0308E+01	2.6126E-01	5.5000E-09	1.3455E-01
ac7.dat	3.2833E+02	6.8768E+00	1.7393E-01	5.5000E-09	3.0633E-01
ac8.dat	3.2833E+02	8.5352E+00	1.4755E-01	5.5000E-09	2.1134E-01
ac9.dat	3.2833E+02	1.0308E+01	1.2990E-01	5.5000E-09	1.7198E-01
ac12.dat	3.6667E+02	1.0308E+01	5.8611E-02	5.5000E-09	3.7105E-01

AC RL-714 Mobil 28 base oil

NEWTONIAN MODEL TYPE 1 ac1.dat

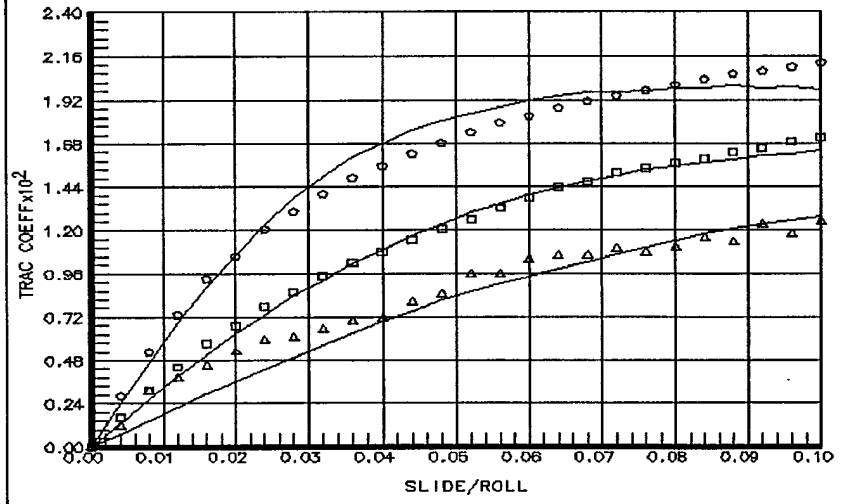
					XMU*	ALFA*	BETA*
△	677MPA	156N	6.88M/S 298K #	2	4.189E-01	5.500E-09	1.613E-01
□	844MPA	307N	6.88M/S 298K #	3	4.189E-01	5.500E-09	1.613E-01
○	1015MPA	538N	6.88M/S 298K #	4	4.189E-01	5.500E-09	1.613E-01



AC RL-714 Mobil 28 base oil

NEWTONIAN MODEL TYPE 1 ac2.dat

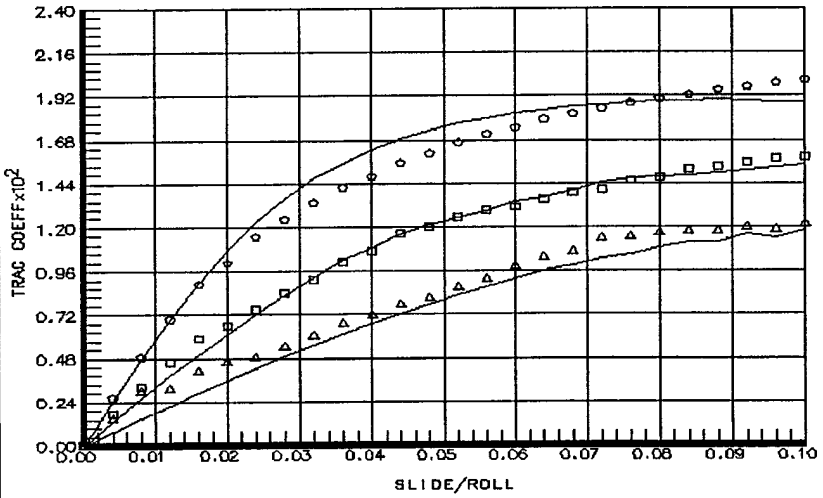
					XMU*	ALFA*	BETA*
△	673MPA	156N	8.54M/S 298K #	6	3.858E-01	5.500E-09	1.279E-01
□	843MPA	307N	8.54M/S 298K #	7	3.858E-01	5.500E-09	1.279E-01
○	1017MPA	538N	8.54M/S 298K #	8	3.858E-01	5.500E-09	1.279E-01



AC RL-714 Mobil 28 base oil

NEWTONIAN MODEL TYPE 1 ac3.dat

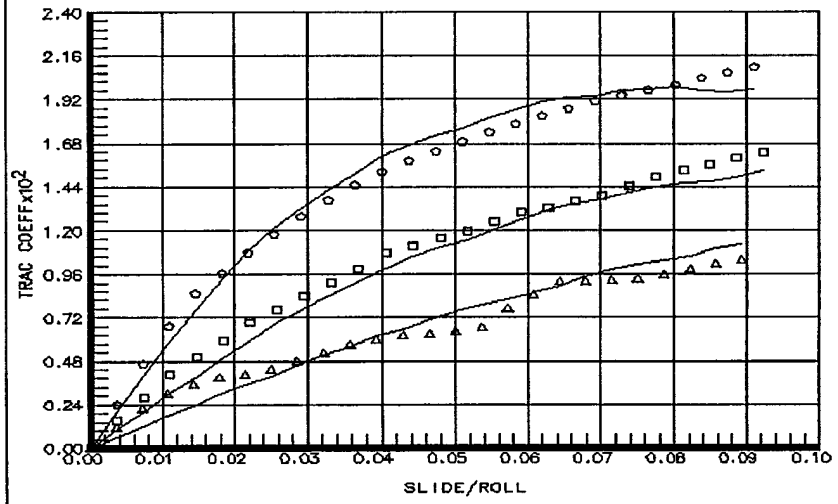
					XMU*	ALFA*	BETA*
△	675MPA	156N	10.31M/S 298K #	10	3.676E-01	5.500E-09	1.174E-01
□	844MPA	307N	10.31M/S 298K #	11	3.676E-01	5.500E-09	1.174E-01
○	1015MPA	538N	10.31M/S 298K #	12	3.676E-01	5.500E-09	1.174E-01



AC RL-714 Mobil 28 base oil

NEWTONIAN MODEL TYPE 1 ac4.dat

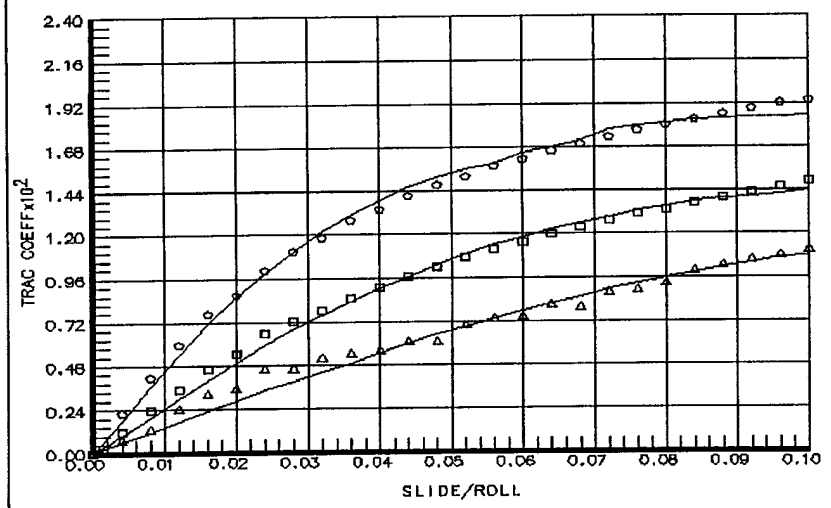
					XMU*	ALFA*	BETA*
△	682MPA	156N	6.88M/S 313K #	14	3.234E-01	5.500E-09	2.049E-01
□	848MPA	307N	6.88M/S 313K #	15	3.234E-01	5.500E-09	2.049E-01
○	1018MPA	538N	6.88M/S 313K #	16	3.234E-01	5.500E-09	2.049E-01



AC RL-714 Mobil 28 base oil

NEWTONIAN MODEL TYPE 1 ac6.dat

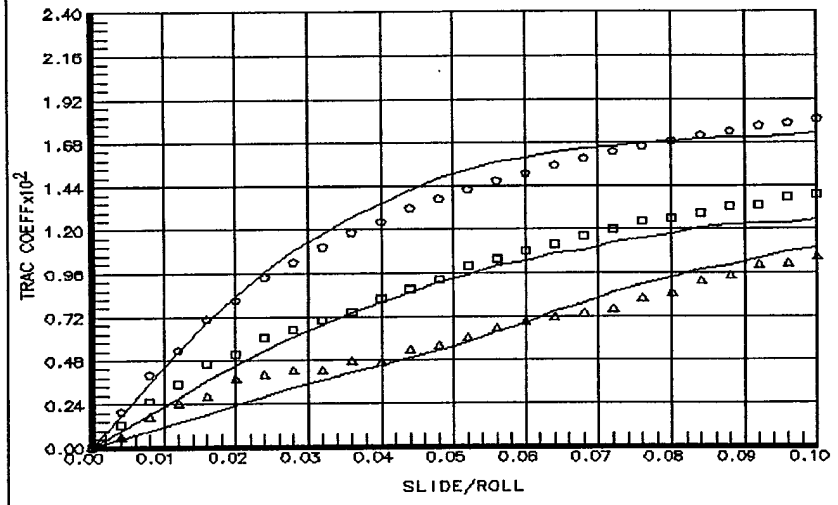
					XMU*	ALFA*	BETA*
△	680MPA	156N	8.54M/S	313K # 18	2.833E-01	5.500E-09	1.589E-01
□	847MPA	307N	8.54M/S	313K # 19	2.833E-01	5.500E-09	1.589E-01
○	1017MPA	538N	8.54M/S	313K # 20	2.833E-01	5.500E-09	1.589E-01



AC RL-714 Mobil 28 base oil

NEWTONIAN MODEL TYPE 1 ac6.dat

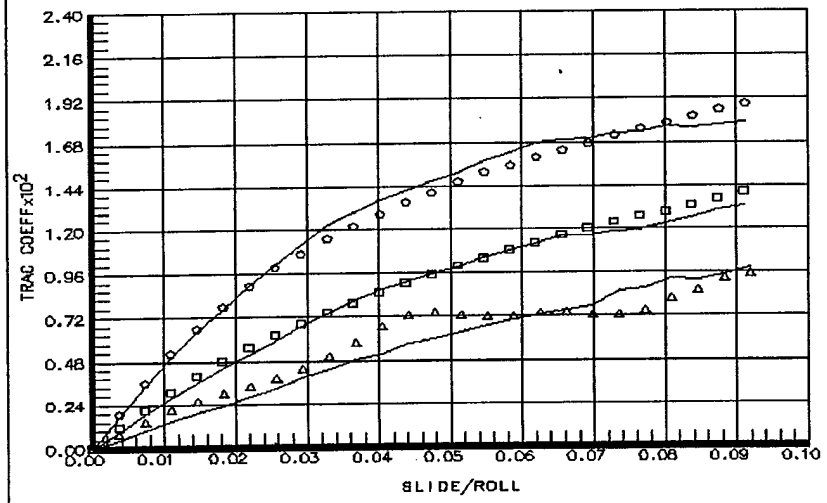
					XMU*	ALFA*	BETA*
△	679MPA	156N	10.31M/S	313K # 22	2.613E-01	5.500E-09	1.346E-01
□	847MPA	307N	10.31M/S	313K # 23	2.613E-01	5.500E-09	1.346E-01
○	1017MPA	538N	10.31M/S	313K # 24	2.613E-01	5.500E-09	1.346E-01



AC RL-714 Mobil 28 base oil

NEWTONIAN MODEL TYPE 1 ac7.dat

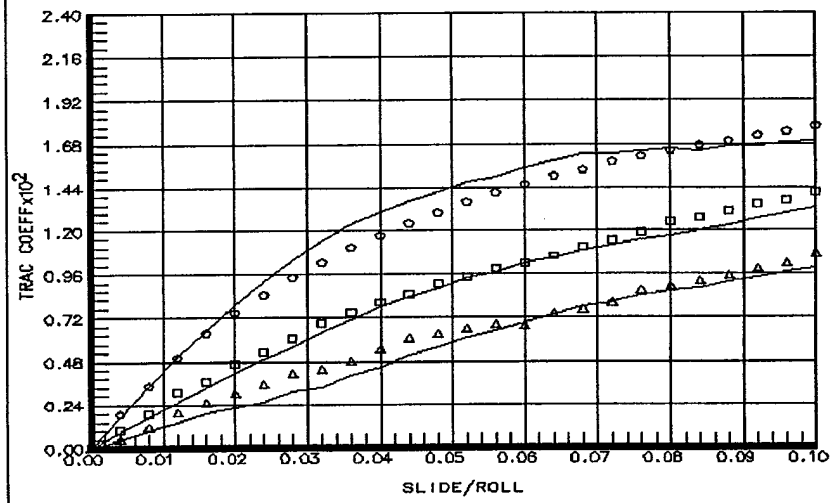
					XMU*	ALFA*	BETA*
△	682MPA	156N	6.88M/S	328K # 26	1.739E-01	5.500E-09	3.063E-01
□	848MPA	307N	6.88M/S	328K # 27	1.739E-01	5.500E-09	3.063E-01
○	1017MPA	538N	6.88M/S	328K # 28	1.739E-01	5.500E-09	3.063E-01



AC RL-714 Mobil 28 base oil

NEWTONIAN MODEL TYPE 1 ac8.dat

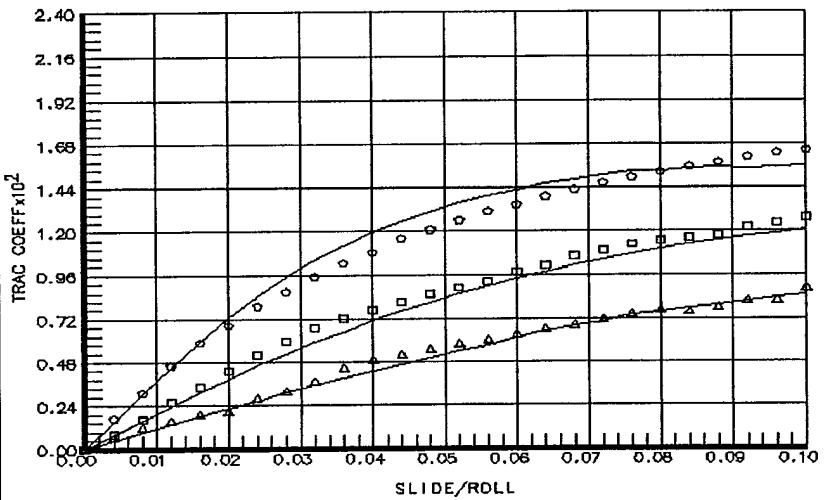
					XMU*	ALFA*	BETA*
△	681MPA	156N	8.54M/S	328K # 30	1.476E-01	5.500E-09	2.113E-01
□	847MPA	307N	8.54M/S	328K # 31	1.476E-01	5.500E-09	2.113E-01
○	1017MPA	538N	8.54M/S	328K # 32	1.476E-01	5.500E-09	2.113E-01



AC RL-714 Mobil 28 base oil

NEWTONIAN MODEL TYPE 1 ac9.dat

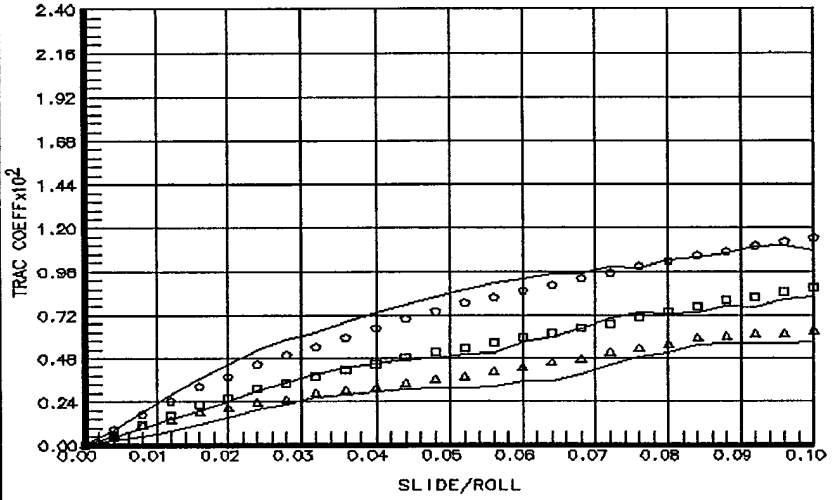
					XMU*	ALFA*	BETA*
△	681MPA	156N	10.31M/S	328K # 34	1.299E-01	5.500E-09	1.720E-01
□	847MPA	307N	10.31M/S	328K # 35	1.299E-01	5.500E-09	1.720E-01
○	1017MPA	538N	10.31M/S	328K # 36	1.299E-01	5.500E-09	1.720E-01



AC RL-714 Mobil 28 base oil

NEWTONIAN MODEL TYPE 1 ac12.dat

					XMU*	ALFA*	BETA*
△	678MPA	156N	10.31M/S	367K # 46	5.861E-02	5.500E-09	3.711E-01
□	846MPA	307N	10.31M/S	367K # 47	5.861E-02	5.500E-09	3.711E-01
○	1016MPA	538N	10.31M/S	367K # 48	5.861E-02	5.500E-09	3.711E-01



4. Traction Data Set C: Shell ST-78 Gear Oil

Data set name: AD Shell ST-78 (Navy Gear Oil 2190)
Rolling radii [Disks 1 & 2] (in): 0.54 0.54
Crown radii [Disks 1 & 2] (in): 36.30 37.00

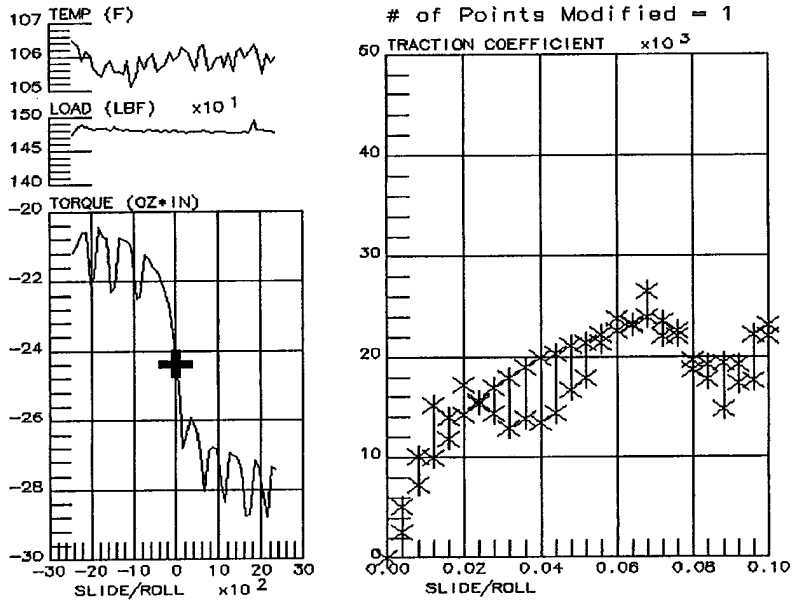
Number of data sets found = 48

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
1	104.00	13.42	4244.00	5396.00	4820.00	49	st78ad1 #1
2	104.00	34.01	4244.00	5396.00	4820.00	49	st78ad1 #2
3	104.00	66.67	4244.00	5396.00	4820.00	49	st78ad1 #3
4	104.00	116.37	4244.00	5396.00	4820.00	49	st78ad1 #4
5	104.00	13.42	5260.00	6700.00	5980.00	49	st78ad1 #5
6	104.00	34.01	5260.00	6700.00	5980.00	49	st78ad1 #6
7	104.00	66.67	5260.00	6700.00	5980.00	49	st78ad1 #7
8	104.00	116.37	5260.00	6700.00	5980.00	49	st78ad1 #8
9	104.00	13.42	6356.00	8084.00	7220.00	49	st78ad1 #9
10	104.00	34.01	6356.00	8084.00	7220.00	49	st78ad1 #10
11	104.00	66.67	6356.00	8084.00	7220.00	49	st78ad1 #11
12	104.00	116.37	6356.00	8084.00	7220.00	49	st78ad1 #12
13	200.00	13.42	4244.00	5396.00	4820.00	49	st78ad1 #13
14	200.00	34.01	4244.00	5396.00	4820.00	49	st78ad1 #14
15	200.00	66.67	4244.00	5396.00	4820.00	49	st78ad1 #15
16	200.00	116.37	4244.00	5396.00	4820.00	49	st78ad1 #16
17	200.00	13.42	5260.00	6700.00	5980.00	49	st78ad1 #17
18	200.00	34.01	5260.00	6700.00	5980.00	49	st78ad1 #18
19	200.00	66.67	5260.00	6700.00	5980.00	49	st78ad1 #19
20	200.00	116.37	5260.00	6700.00	5980.00	49	st78ad1 #20
21	200.00	13.42	6356.00	8084.00	7220.00	49	st78ad1 #21
22	200.00	34.01	6356.00	8084.00	7220.00	49	st78ad1 #22
23	200.00	66.67	6356.00	8084.00	7220.00	49	st78ad1 #23
24	200.00	116.37	6356.00	8084.00	7220.00	49	st78ad1 #24
25	77.00	13.51	4244.00	5396.00	4820.00	49	st78ad3 #1
26	77.00	34.10	4244.00	5396.00	4820.00	49	st78ad3 #2
27	77.00	66.76	4244.00	5396.00	4820.00	49	st78ad3 #3
28	77.00	116.46	4244.00	5396.00	4820.00	49	st78ad3 #4
29	77.00	13.51	5260.00	6700.00	5980.00	49	st78ad3 #5
30	77.00	34.10	5260.00	6700.00	5980.00	49	st78ad3 #6
31	77.00	66.76	5260.00	6700.00	5980.00	49	st78ad3 #7
32	77.00	116.46	5260.00	6700.00	5980.00	49	st78ad3 #8
33	77.00	13.51	6356.00	8084.00	7220.00	49	st78ad3 #9
34	77.00	34.10	6356.00	8084.00	7220.00	49	st78ad3 #10
35	77.00	66.76	6356.00	8084.00	7220.00	49	st78ad3 #11
36	77.00	116.46	6356.00	8084.00	7220.00	49	st78ad3 #12
37	131.00	13.51	4244.00	5396.00	4820.00	49	st78ad3 #13
38	131.00	34.10	4244.00	5396.00	4820.00	49	st78ad3 #14
39	131.00	66.76	4244.00	5396.00	4820.00	49	st78ad3 #15
40	131.00	116.46	4244.00	5396.00	4820.00	49	st78ad3 #16
41	131.00	13.51	5260.00	6700.00	5980.00	49	st78ad3 #17
42	131.00	34.10	5260.00	6700.00	5980.00	49	st78ad3 #18
43	131.00	66.76	5260.00	6700.00	5980.00	49	st78ad3 #19
44	131.00	116.46	5260.00	6700.00	5980.00	49	st78ad3 #20
45	131.00	13.51	6356.00	8084.00	7220.00	49	st78ad3 #21
46	131.00	34.10	6356.00	8084.00	7220.00	49	st78ad3 #22
47	131.00	66.76	6356.00	8084.00	7220.00	49	st78ad3 #23
48	131.00	116.46	6356.00	8084.00	7220.00	49	st78ad3 #24

Summary of Select Data Files

Filename	Temp	RollRpm	DataCurve #		
ad1.dat	77.00	4820.00	26	27	28
ad2.dat	77.00	5980.00	30	31	32
ad3.dat	77.00	7220.00	34	35	36
ad4.dat	104.00	4820.00	2	3	4
ad5.dat	104.00	5980.00	6	7	8
ad6.dat	104.00	7220.00	10	11	12
ad7.dat	131.00	4820.00	38	39	40
ad8.dat	131.00	5980.00	42	43	44
ad9.dat	131.00	7220.00	46	47	48
ad10.dat	200.00	4820.00	14	15	16
ad11.dat	200.00	5980.00	18	19	20
ad12.dat	200.00	7220.00	22	23	24

AD Shell ST-78 (Navy Gear Oil 2190) #1
104F 13LBF 4820RPM 1 FILE: st78ad1



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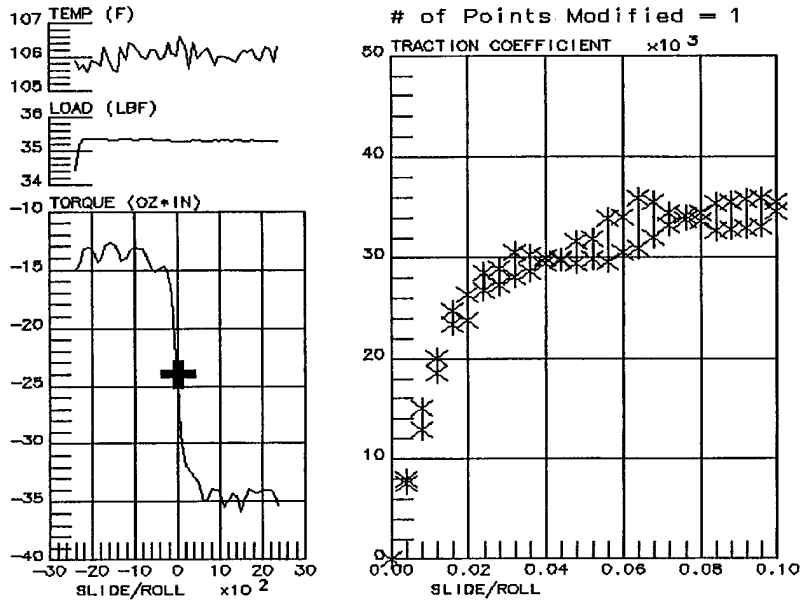

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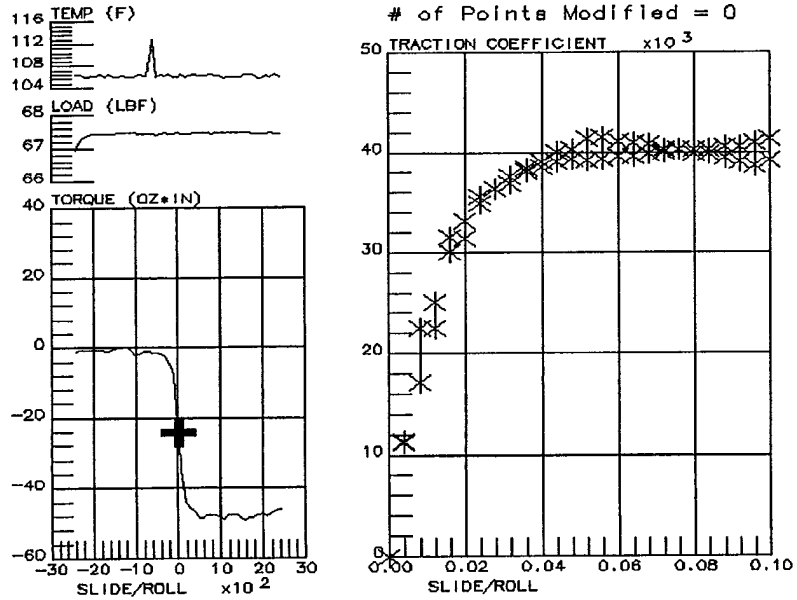
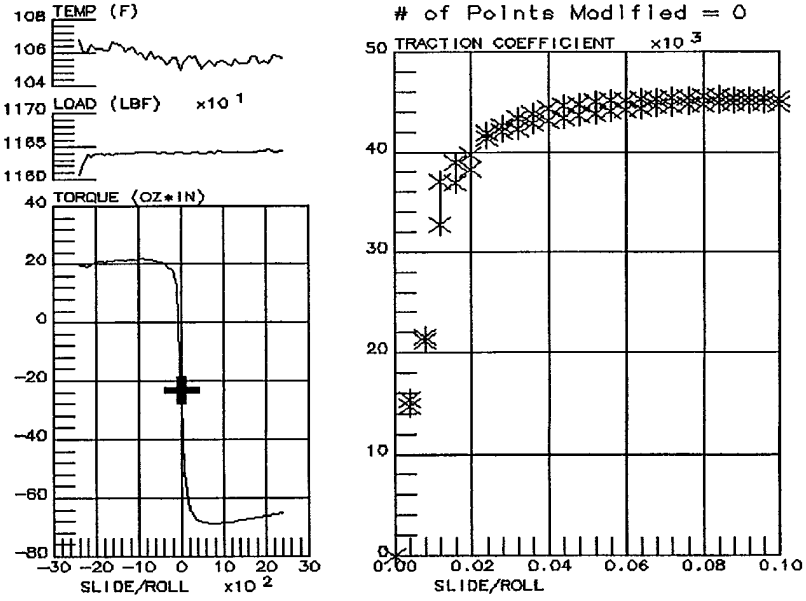
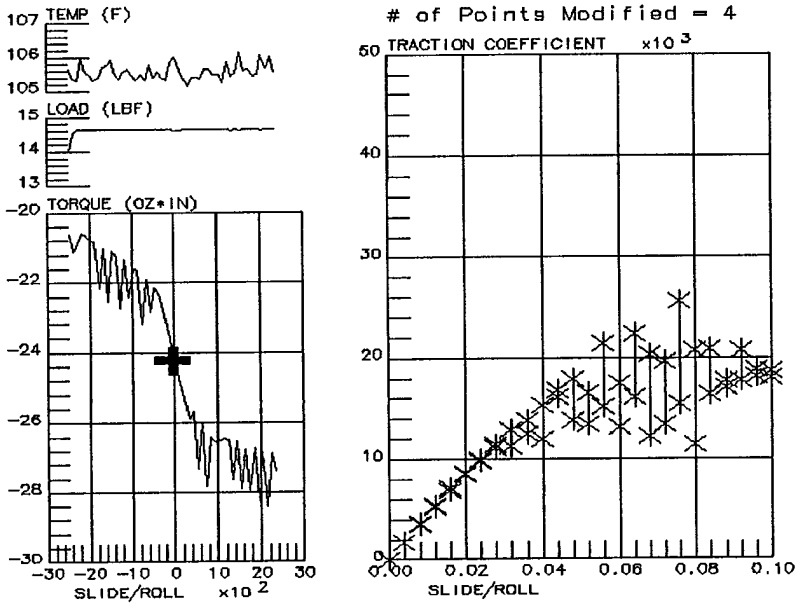


AD Shell ST-78 (Navy Gear Oil 2190) #4
104F 116LBF 4820RPM 4 FILE: st78ad1



AD Shell ST-78 (Navy Gear Oil 2190) #5
104F 13LBF 5980RPM 5 FILE: st78ad1



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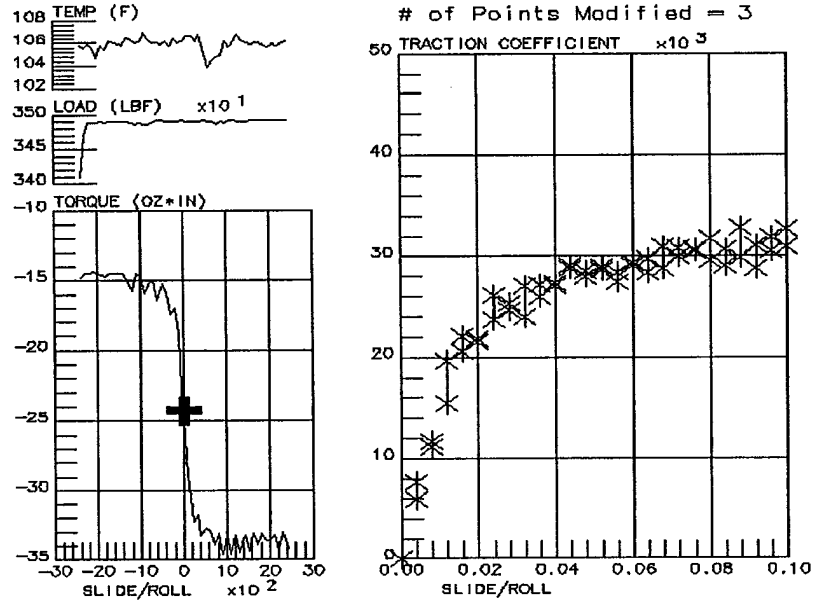
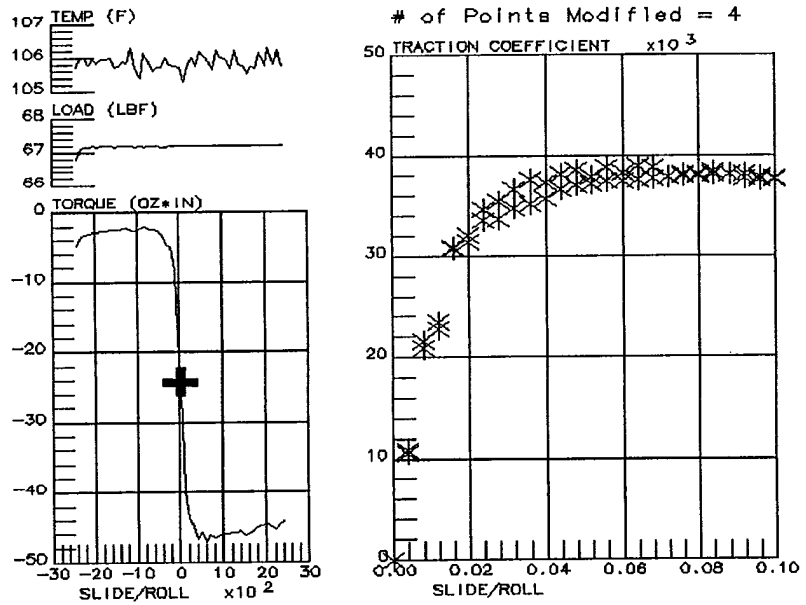
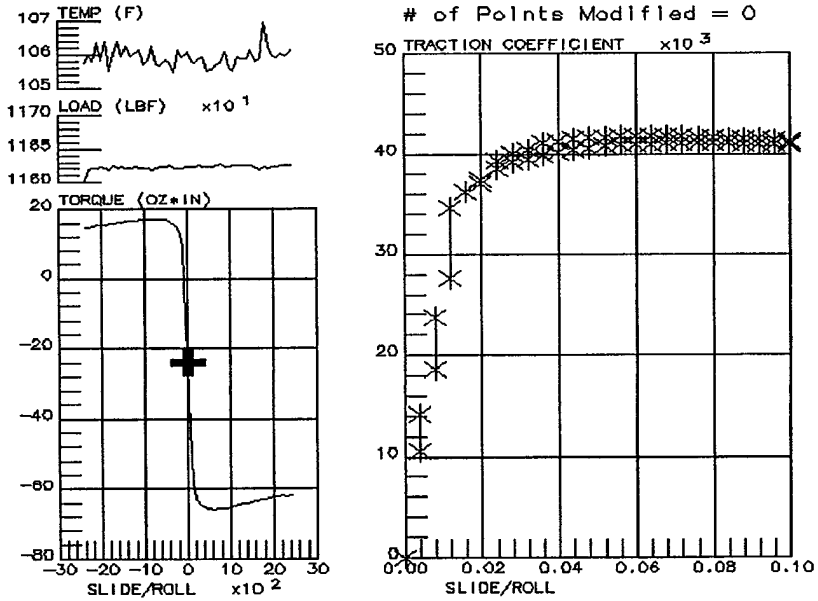
104F 34LBF 5980RPM 6 FILE: st78ad1



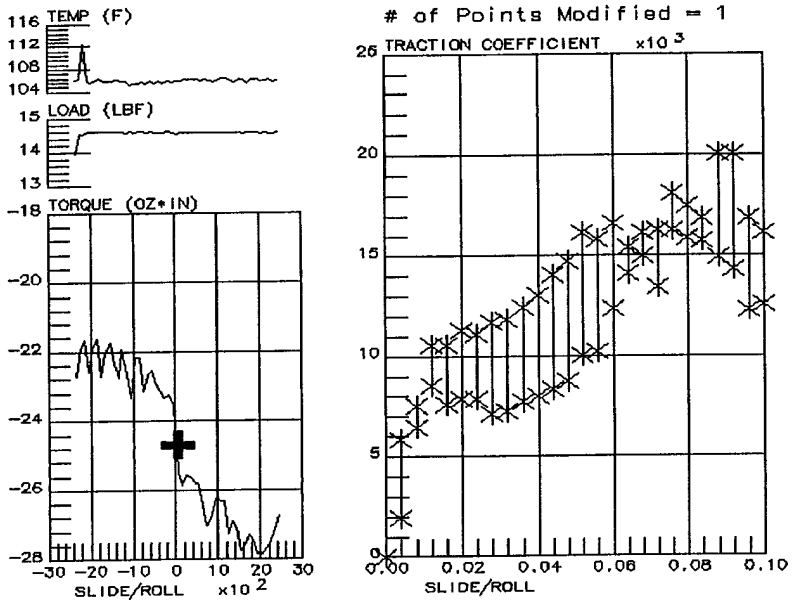
AD Shell ST-78 (Navy Gear Oil 2190) #7
104F 67LBF 5980RPM 7 FILE: st78ad1



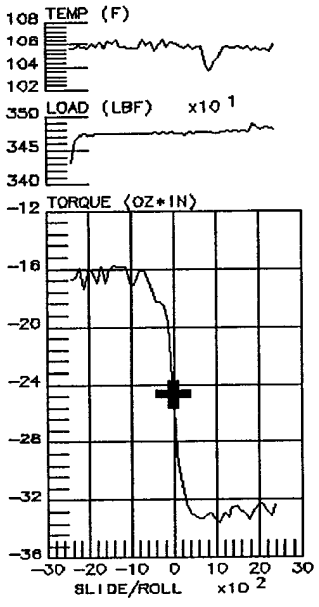
AD Shell ST-78 (Navy Gear Oil 2190) #8
104F 116LBF 5980RPM 8 FILE: st78ad1

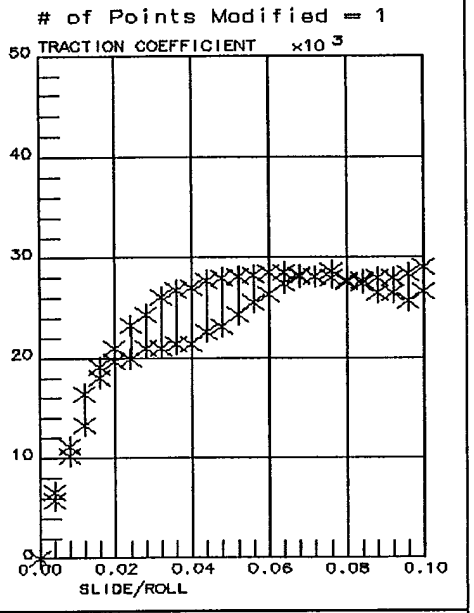


AD Shell ST-78 (Navy Gear Oil 2190) #9
104F 13LBF 7220RPM 9 FILE: st78ad1

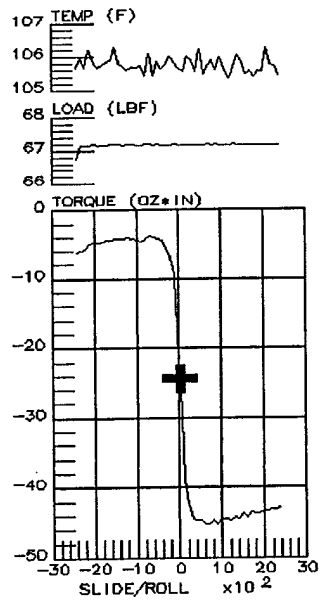


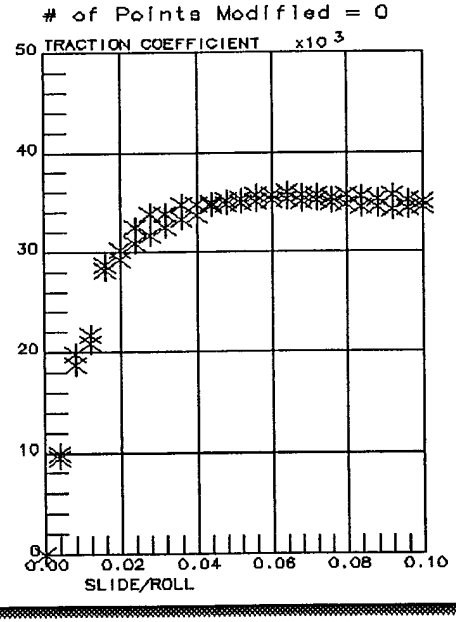
AD Shell ST-78 (Navy Gear Oil 2190) #10
104F 34LBF 7220RPM 10 FILE: st78ad1



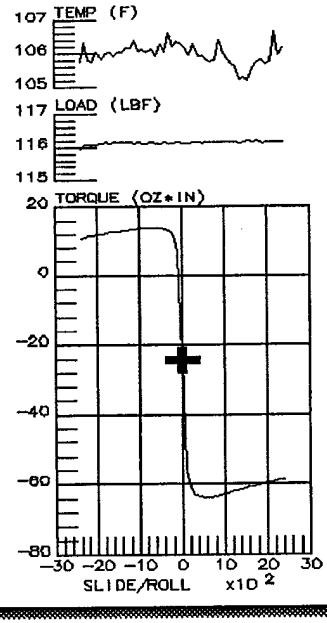


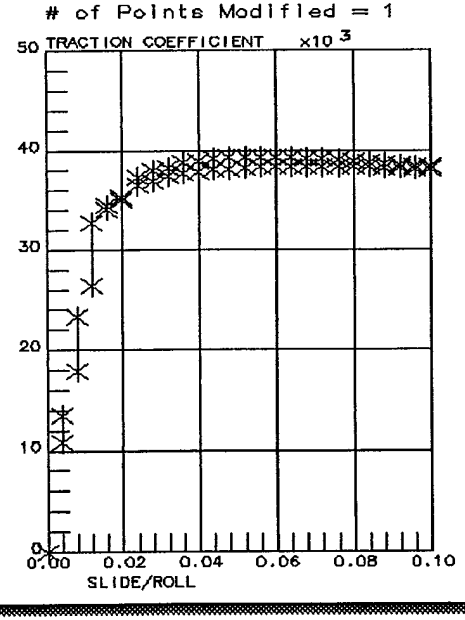
AD Shell ST-78 (Navy Gear Oil 2190) #11
104F 67LBF 7220RPM 11 FILE: st78ad1



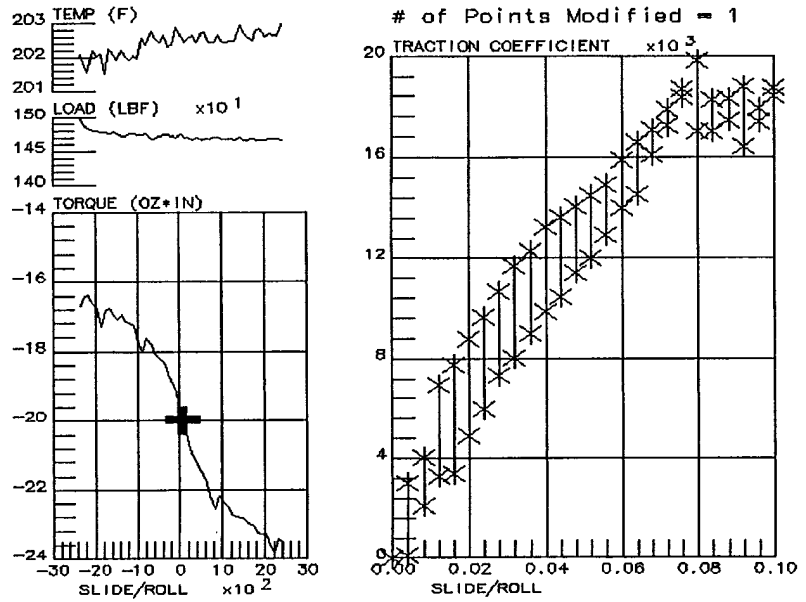


AD Shell ST-78 (Navy Gear Oil 2190) #12
104F 116LBF 7220RPM 12 FILE: st78ad1

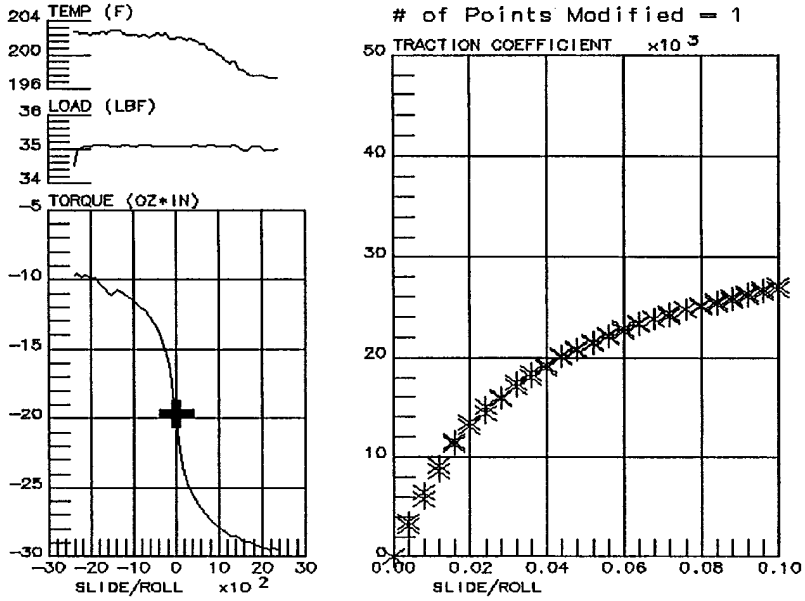




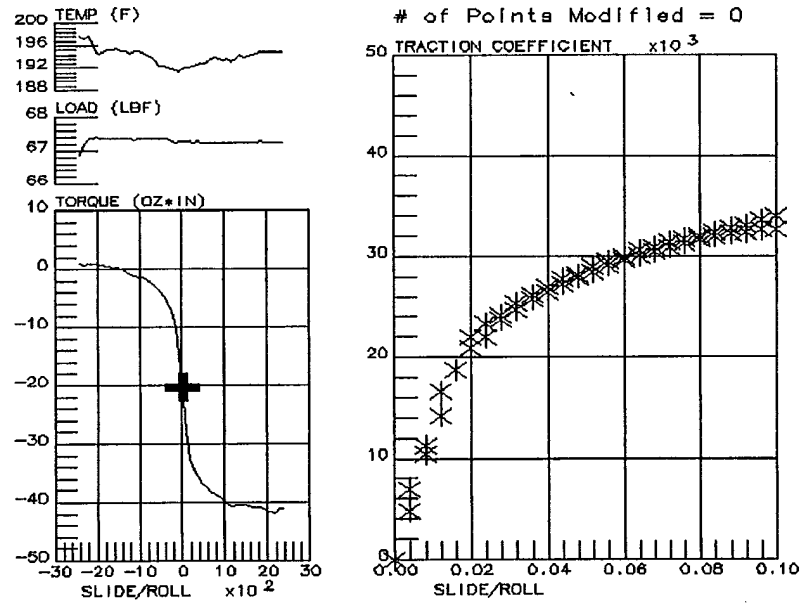
AD Shell ST-78 (Navy Gear Oil 2190) #13
200F 13LBF 4820RPM 13 FILE: st78ad1



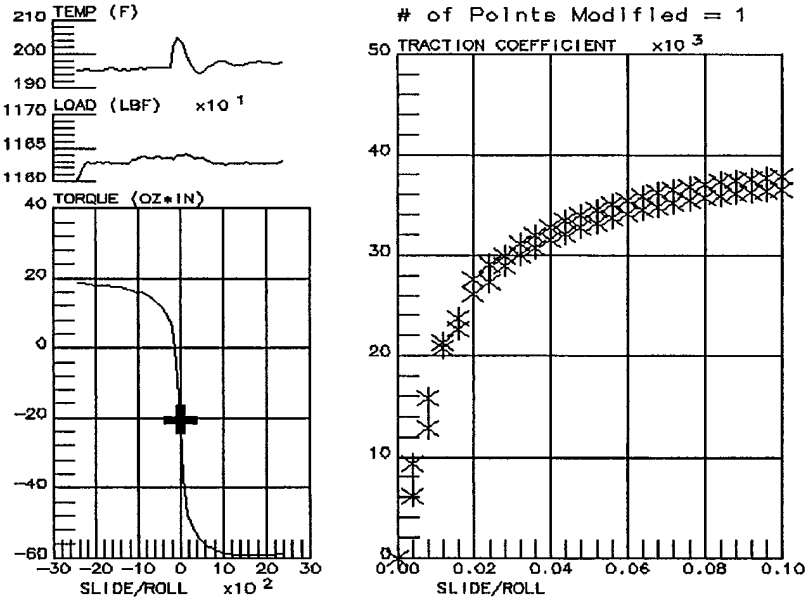
AD Shell ST-78 (Navy Gear Oil 2190) #14
200F 34LBF 4820RPM 14 FILE: st78ad1



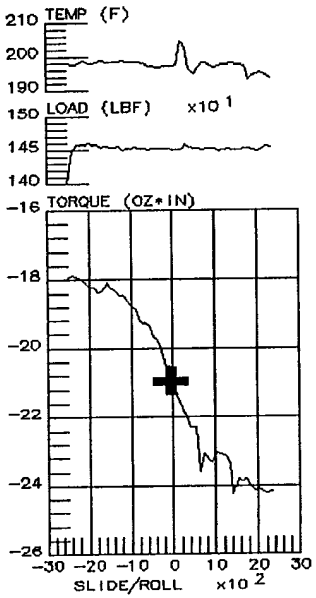
AD Shell ST-78 (Navy Gear Oil 2190) #15
200F 67LBF 4820RPM 15 FILE: st78ad1

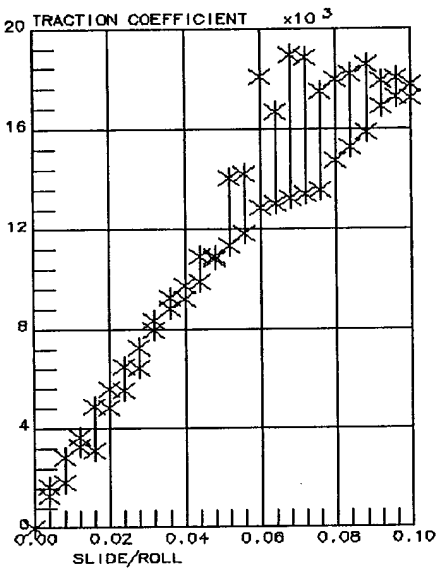


AD Shell ST-78 (Navy Gear Oil 2190) #16
200F 116LBF 4820RPM 16 FILE: st78ad1

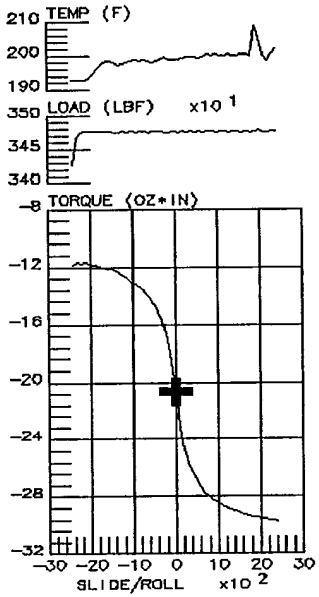


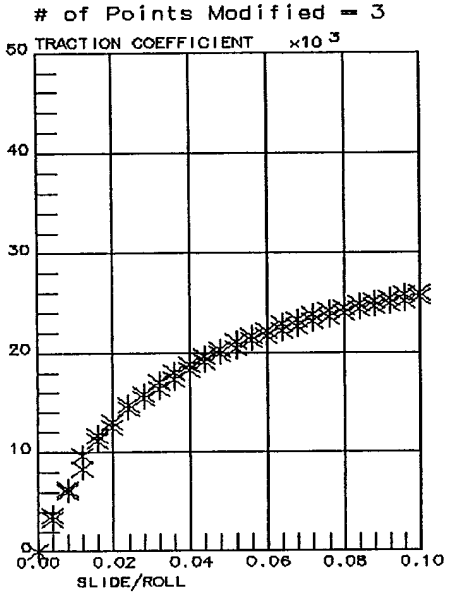
AD Shell ST-78 (Navy Gear Oil 2190) #17
200F 13LBF 5980RPM 17 FILE: st78ad1



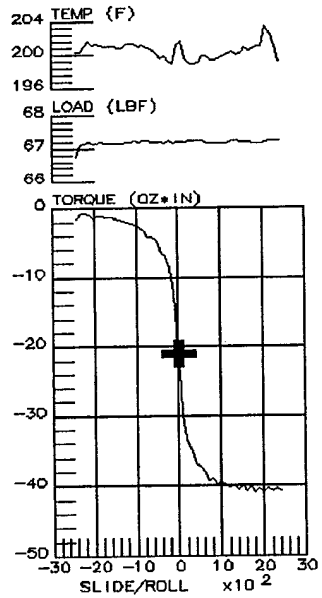


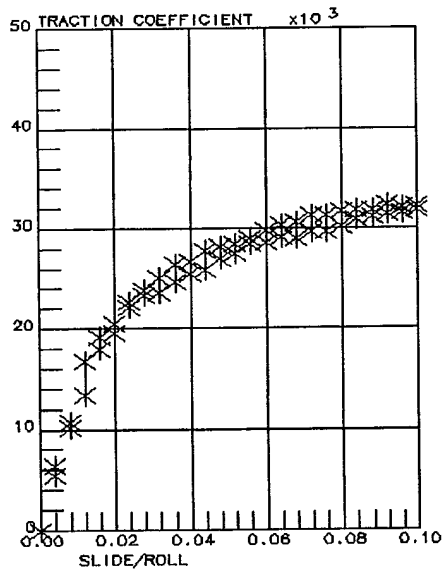
AD Shell ST-78 (Navy Gear Oil 2190) #18
200F 34LBF 5980RPM 18 FILE: st78ad1





AD Shell ST-78 (Navy Gear Oil 2190) #19
200F 67LBF 5980RPM 19 FILE: st78ad1





AD Shell ST-78 (Navy Gear Oil 2190) #20
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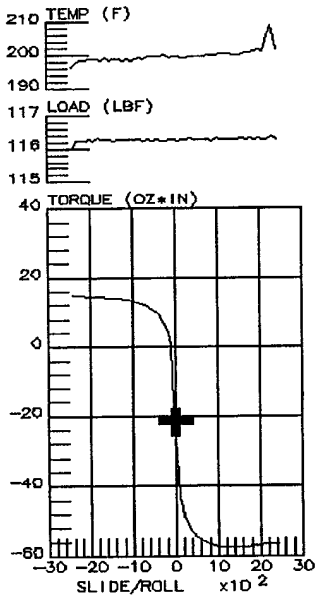
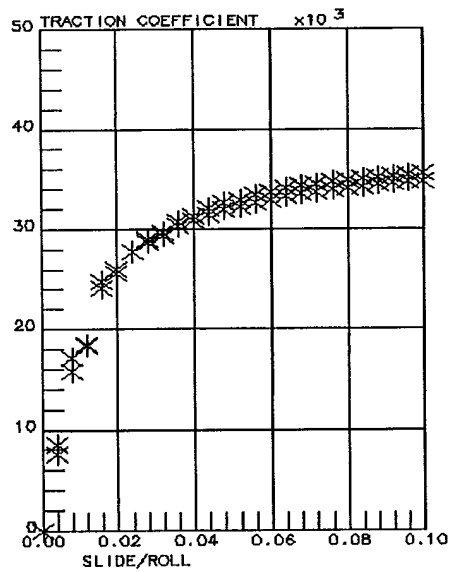
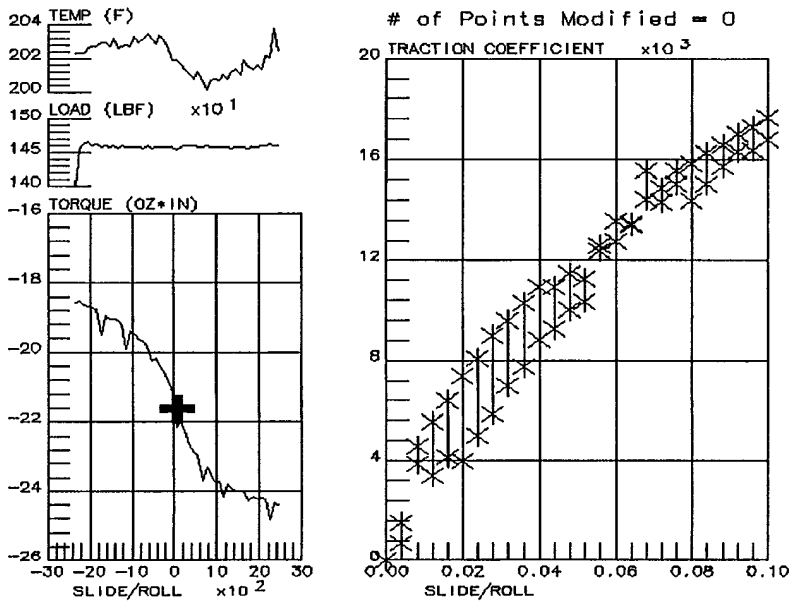




AD Shell ST-78 (Navy Gear Oil 2190) #21
200F 13LBF 7220RPM 21 FILE: st78ad1



AD Shell ST-78 (Navy Gear Oil 2190) #22
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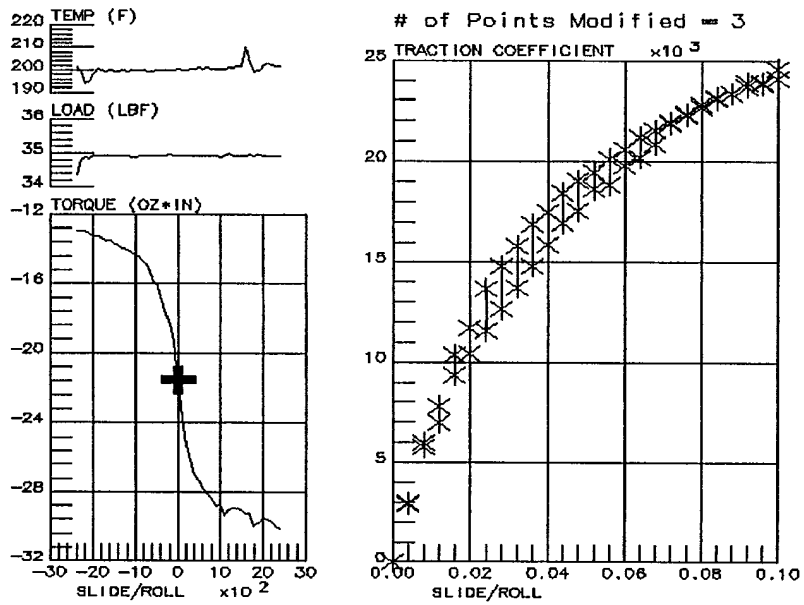

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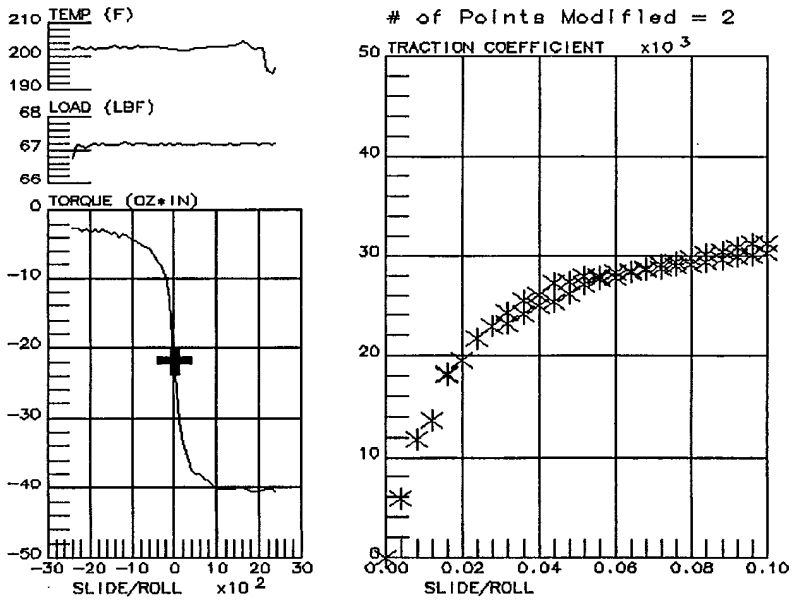

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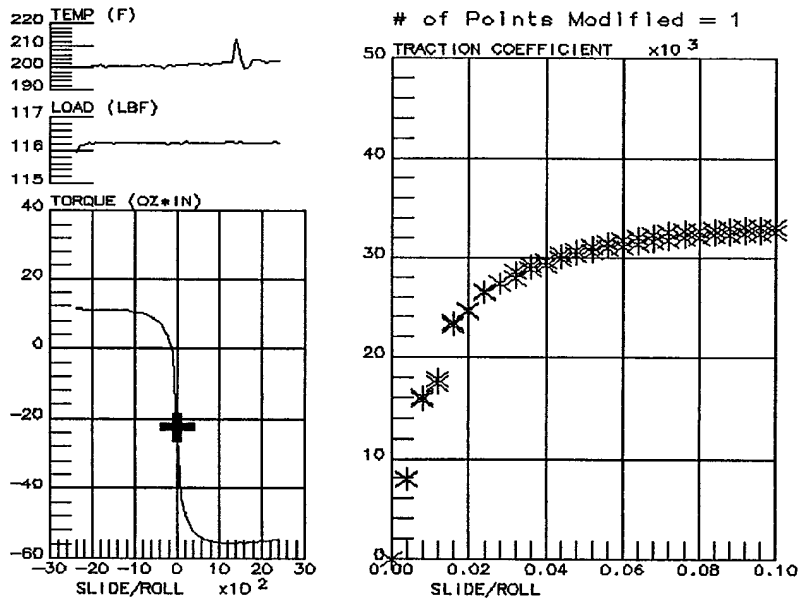

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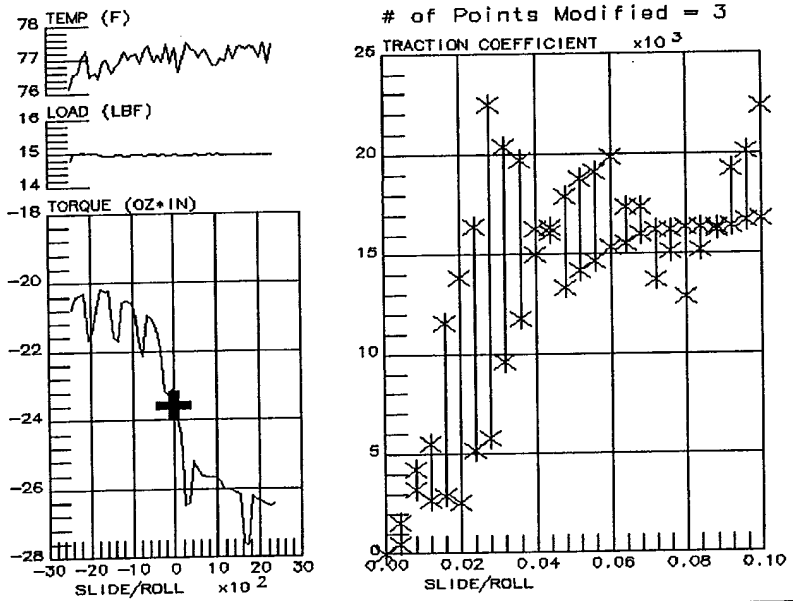

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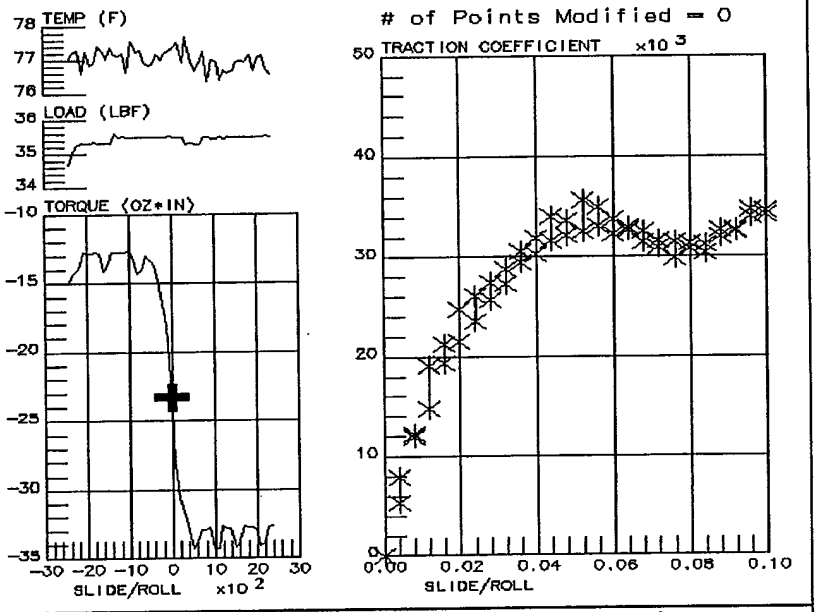

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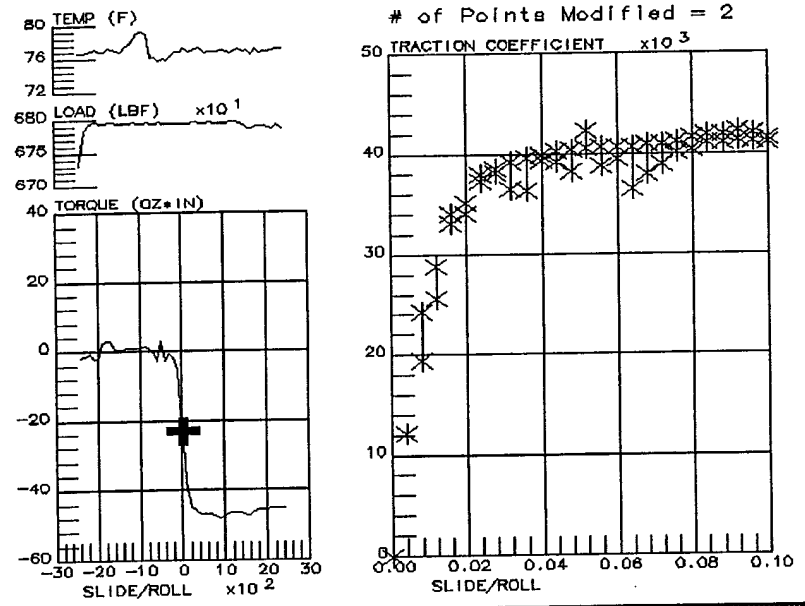

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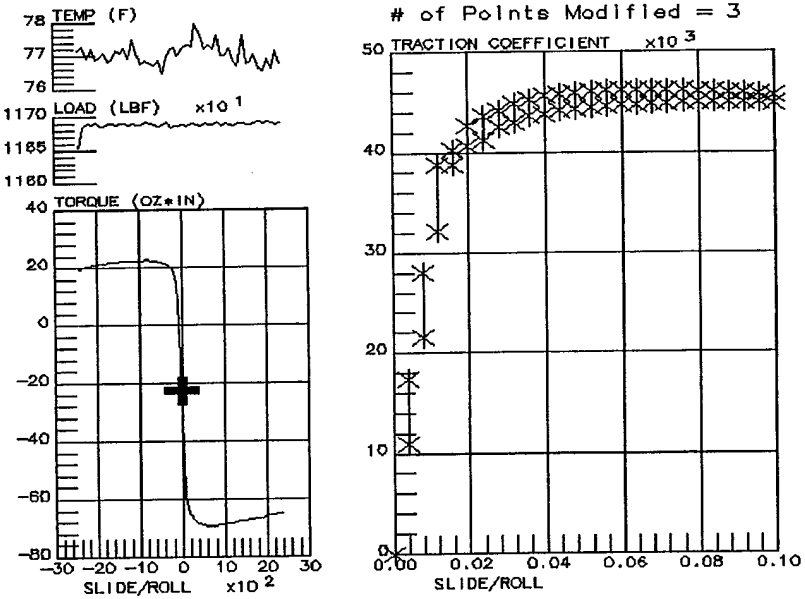
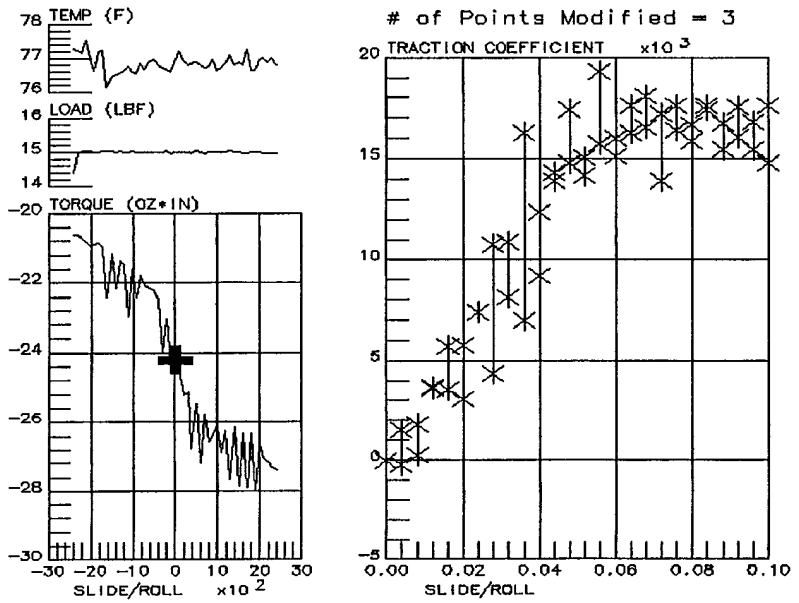


AD Shell ST-78 (Navy Gear Oil 2190) #29
77F 14LBF 5980RPM 5 FILE: st78ad3



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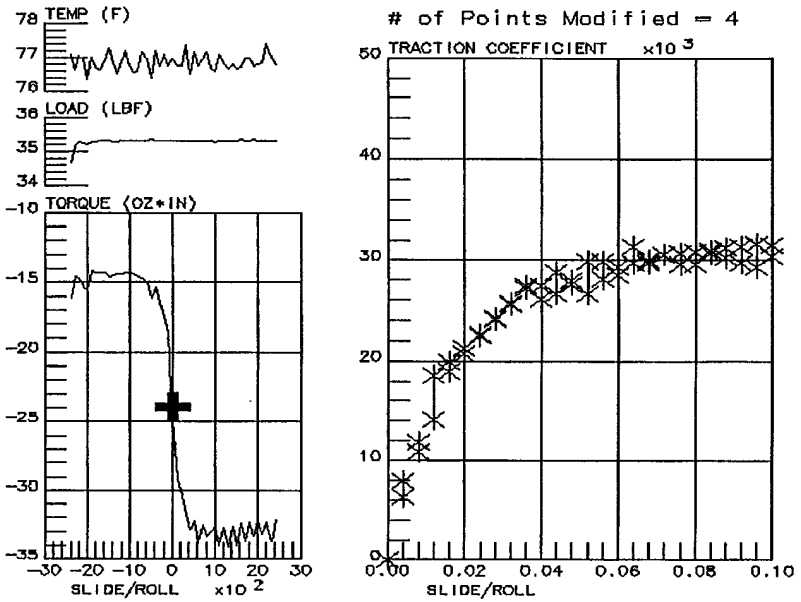

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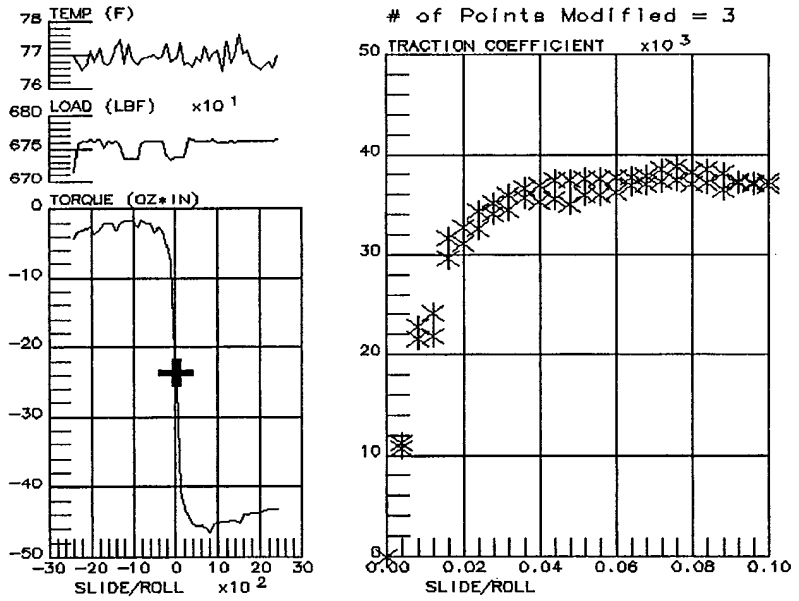

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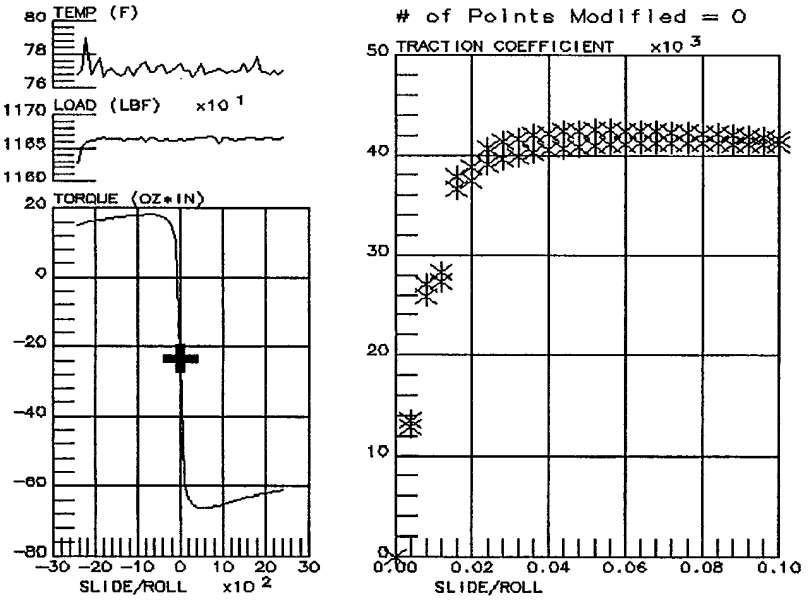

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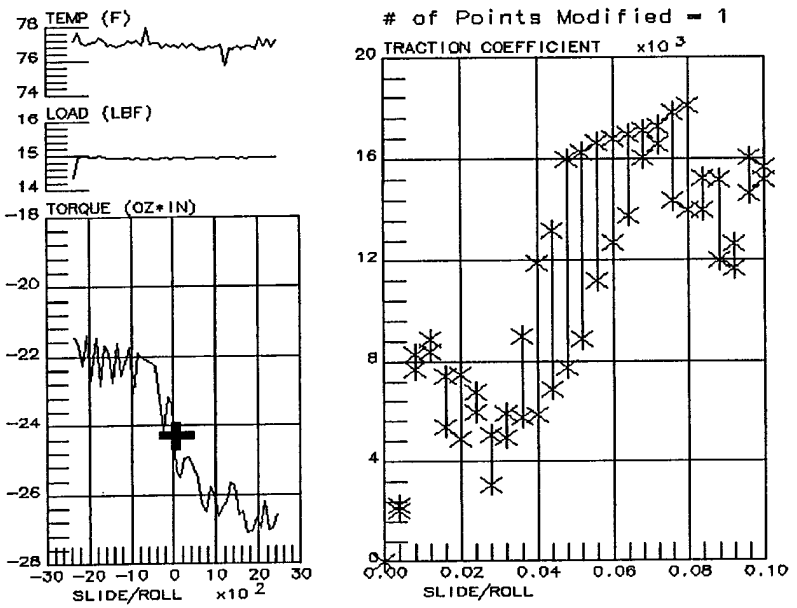
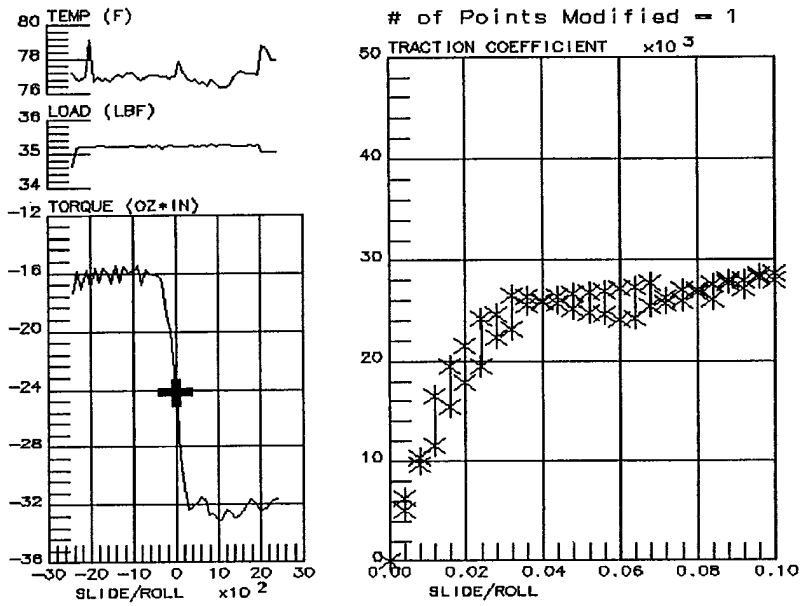
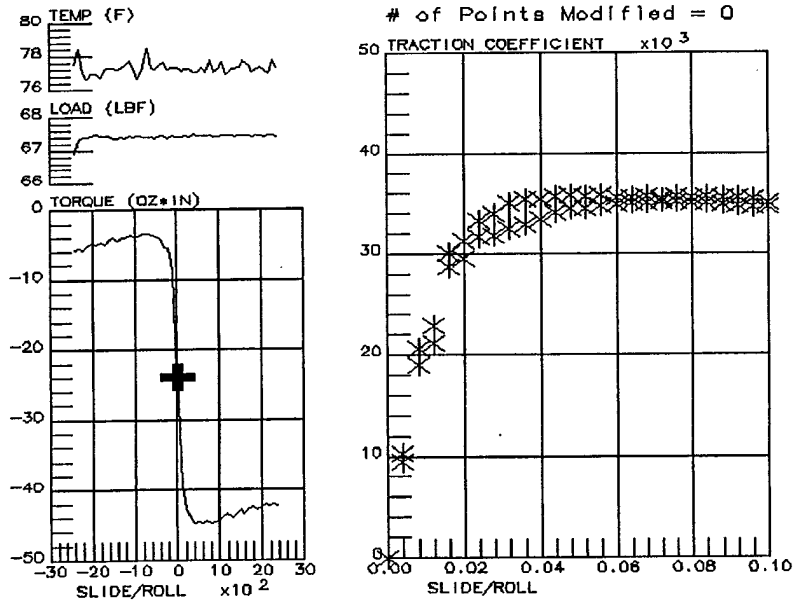


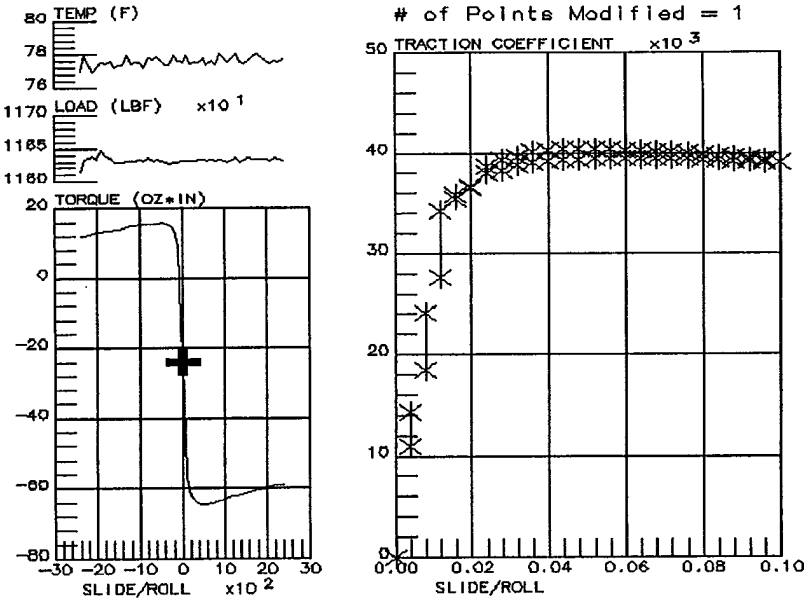
AD Shell ST-78 (Navy Gear Oil 2190) #34
77F 34LBF 7220RPM 10 FILE: st78ad3



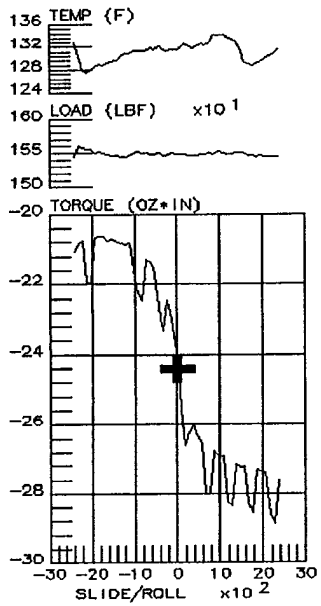
AD Shell ST-78 (Navy Gear Oil 2190) #35
77F 67LBF 7220RPM 11 FILE: st78ad3

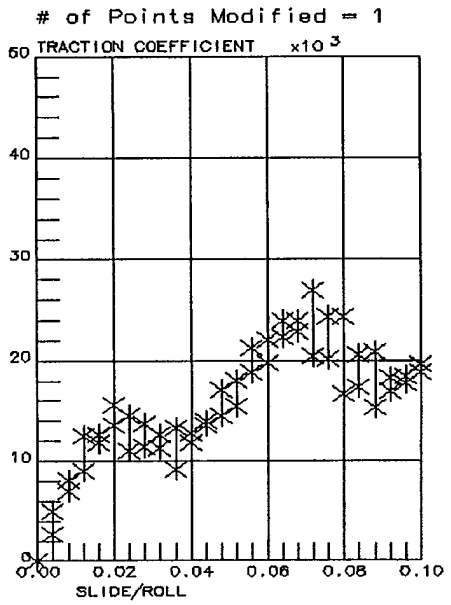


AD Shell ST-78 (Navy Gear Oil 2190) #36
77F 116LBF 7220RPM 12 FILE: st78ad3

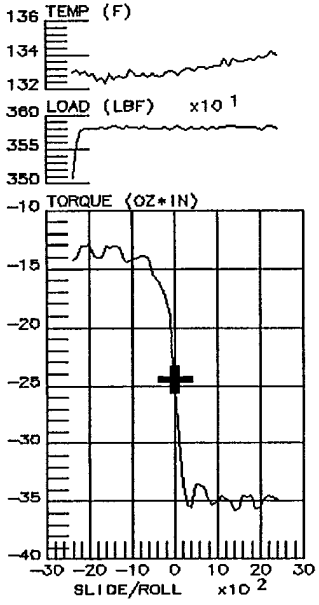


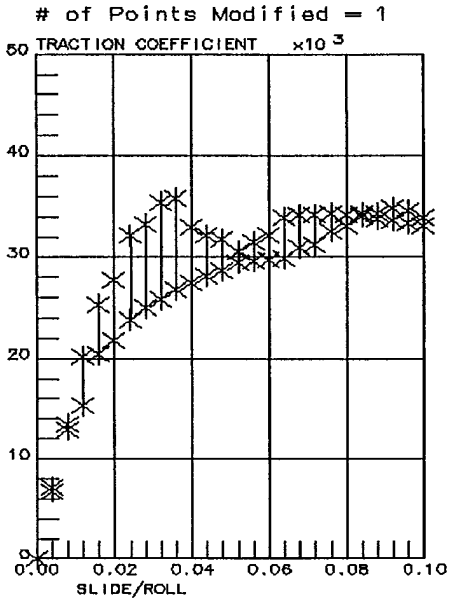
AD Shell ST-78 (Navy Gear Oil 2190) #37
131F 14LBF 4820RPM 13 FILE: st78ad3



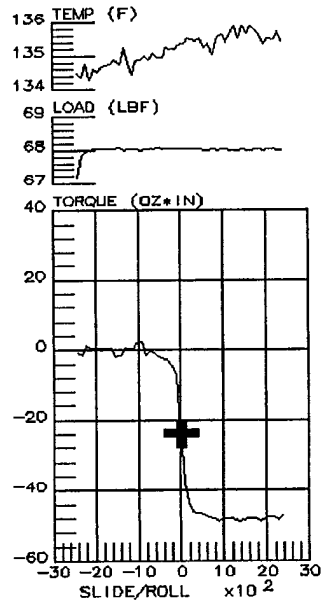


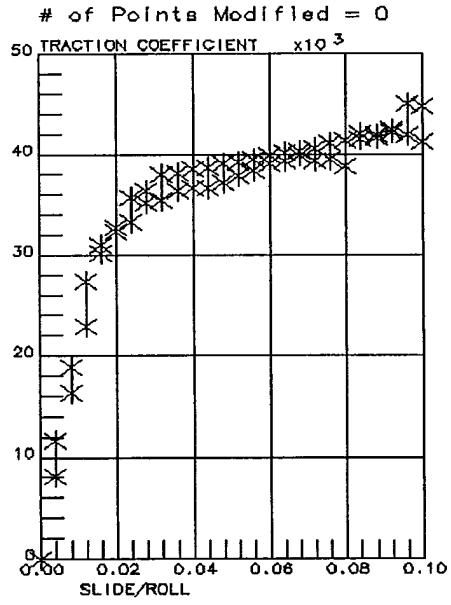
AD Shell ST-78 (Navy Gear Oil 2190) #38
131F 34LBF 4820RPM 14 FILE: st78ad3



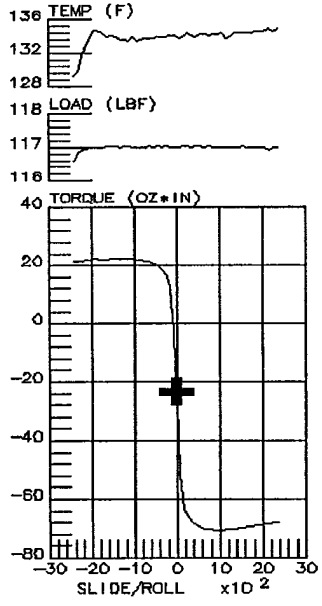


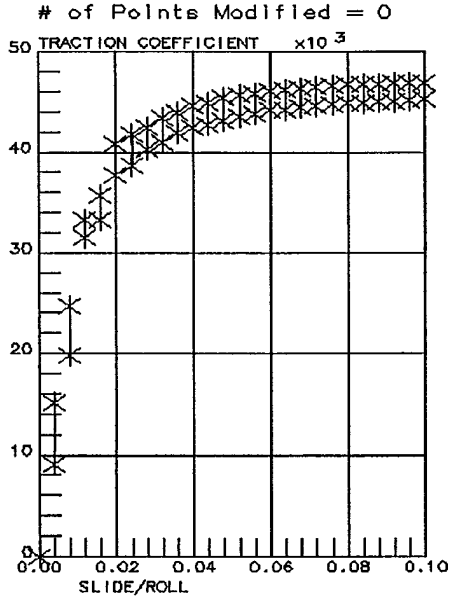
AD Shell ST-78 (Navy Gear Oil 2190) #39
131F 67LBF 4820RPM 15 FILE: st78ad3



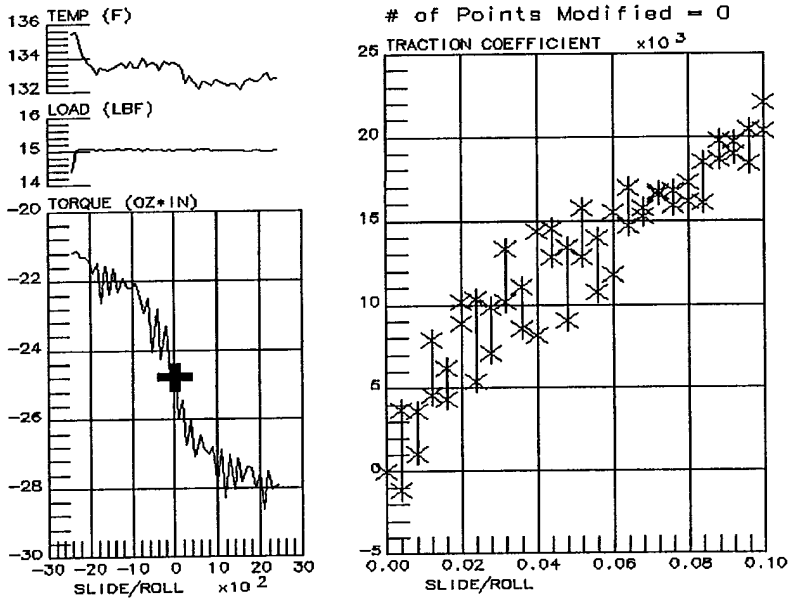


AD Shell ST-78 (Navy Gear Oil 2190) #40
131F 116LBF 4820RPM 16 FILE: st78ad3

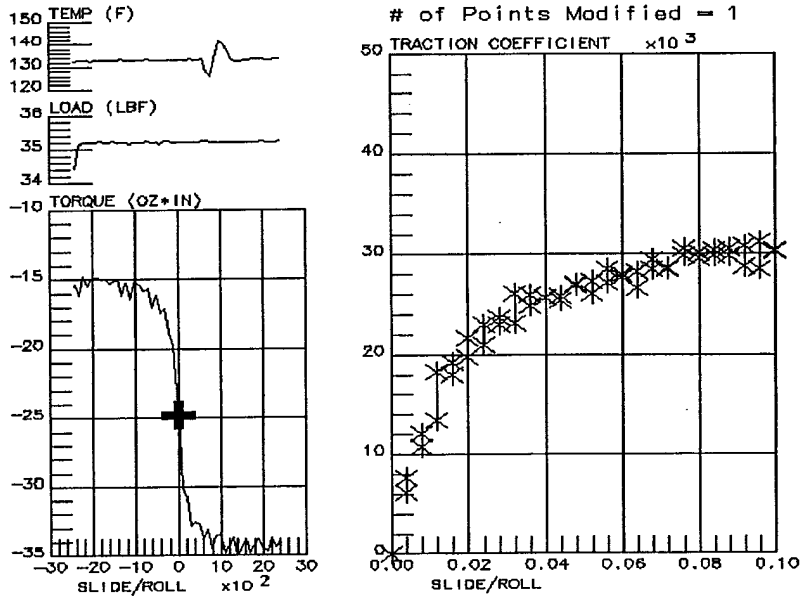




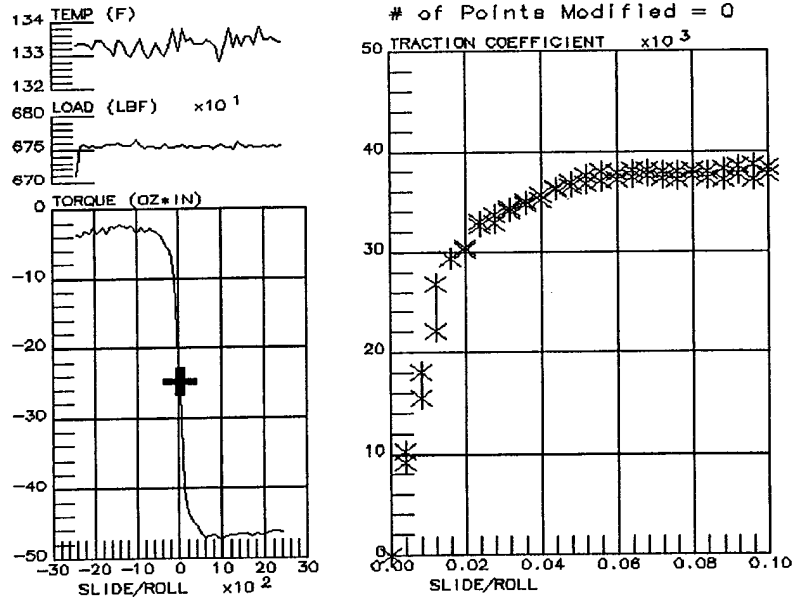
AD Shell ST-78 (Navy Gear Oil 2190) #41
131F 14LBF 5980RPM 17 FILE: st78ad3



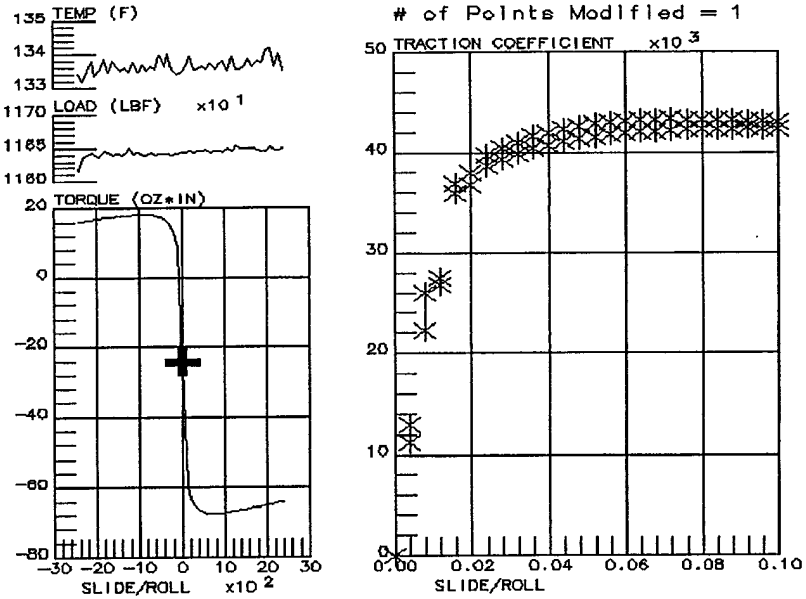
AD Shell ST-78 (Navy Gear Oil 2190) #42
131F 34LBF 5980RPM 18 FILE: st78ad3



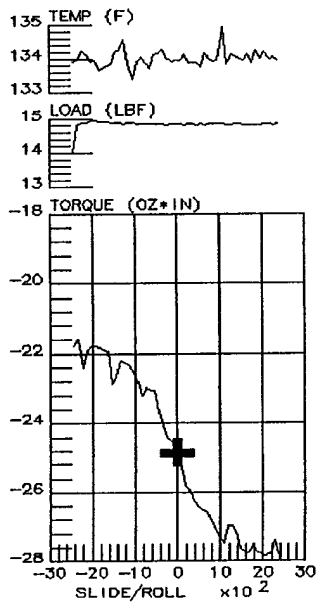
AD Shell ST-78 (Navy Gear Oil 2190) #43
131F 67LBF 5980RPM 19 FILE: st78ad3

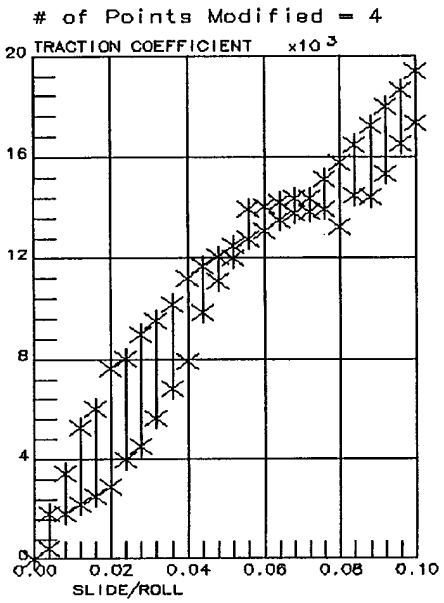


AD Shell ST-78 (Navy Gear Oil 2190) #44
131F 116LBF 5980RPM 20 FILE: st78ad3

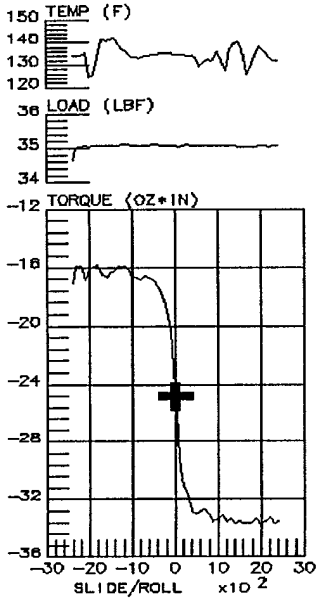


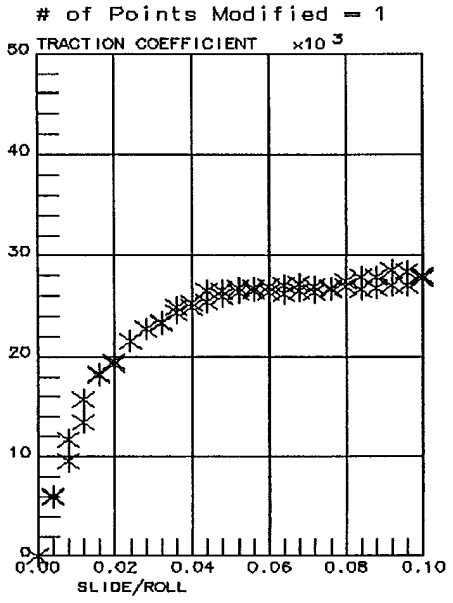
AD Shell ST-78 (Navy Gear Oil 2190) #45
131F 14LBF 7220RPM 21 FILE: st78ad3



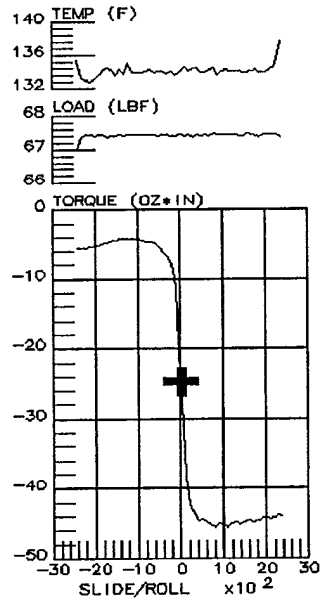


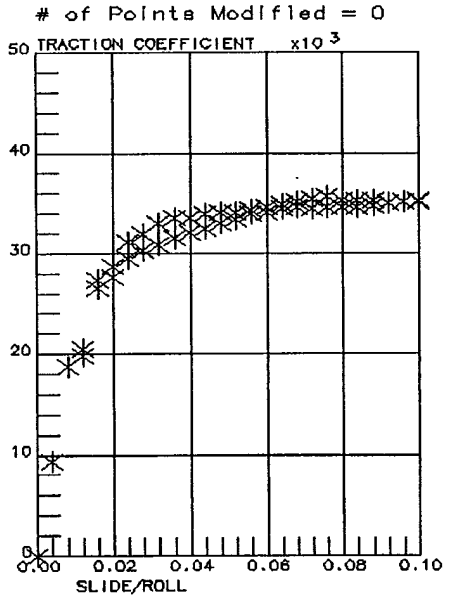
AD Shell ST-78 (Navy Gear Oil 2190) #46
131F 34LBF 7220RPM 22 FILE: st78ad3



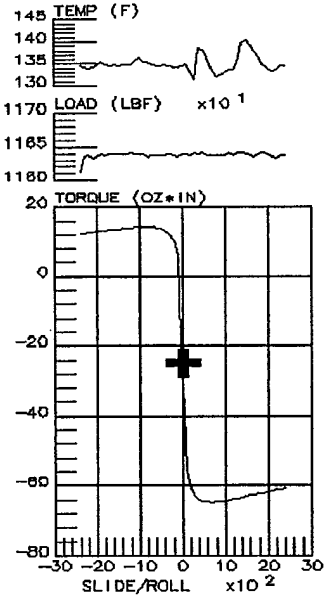


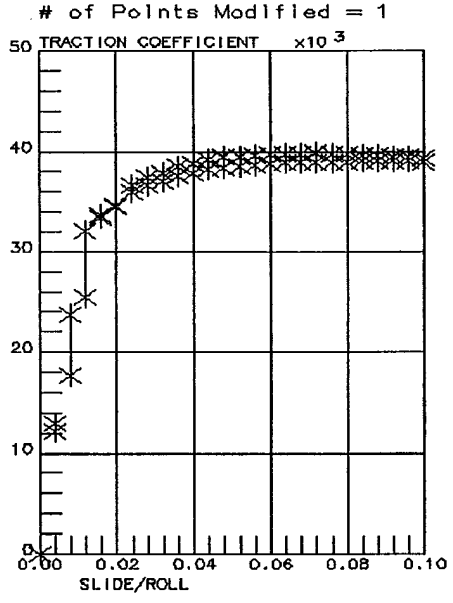
AD Shell ST-78 (Navy Gear Oil 2190) #47
131F 67LBF 7220RPM 23 FILE: st78ad3





AD Shell ST-78 (Navy Gear Oil 2190) #48
131F 116LBF 7220RPM 24 FILE: st78ad3





Lubricant name = AD Shell ST-78 (Navy Gear Oil 2190)

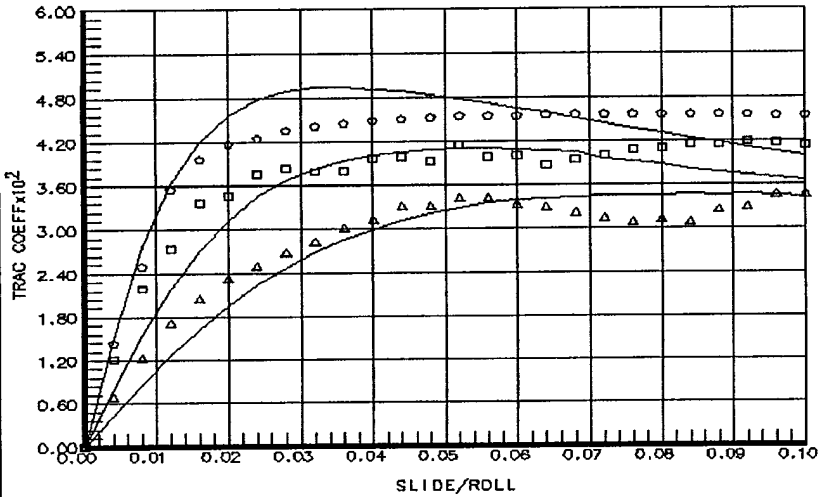
NEWTONIAN MODEL TYPE 1

Dataset Name	Inlet Temp (K)	Roll Velocity (M/S)	XMU* (Pa.S)	ALFA* (1/Pa)	BETA* (1/K)
ad1.dat	2.9833E+02	6.8911E+00	6.0669E+00	5.5000E-09	8.9620E-02
ad2.dat	2.9833E+02	8.5495E+00	4.6567E+00	5.5000E-09	7.7155E-02
ad3.dat	2.9833E+02	1.0322E+01	3.7533E+00	5.5000E-09	6.8398E-02
ad4.dat	3.1333E+02	6.8911E+00	4.7140E+00	5.5000E-09	1.2401E-01
ad5.dat	3.1333E+02	8.5495E+00	3.7696E+00	5.5000E-09	1.0338E-01
ad6.dat	3.1333E+02	1.0322E+01	3.0152E+00	5.5000E-09	8.8534E-02
ad7.dat	3.2833E+02	6.8911E+00	3.4545E+00	5.5000E-09	1.6256E-01
ad8.dat	3.2833E+02	8.5495E+00	2.5091E+00	5.5000E-09	1.2599E-01
ad9.dat	3.2833E+02	1.0322E+01	2.2268E+00	5.5000E-09	1.1133E-01
ad11.dat	3.6667E+02	8.5495E+00	5.3618E-01	5.5000E-09	2.6345E-01
ad12.dat	3.6667E+02	1.0322E+01	5.8237E-01	5.5000E-09	2.1335E-01

AD Shell ST-78 (Navy Gear Oil 2190)

NEWTONIAN MODEL TYPE 1 ad1.dat

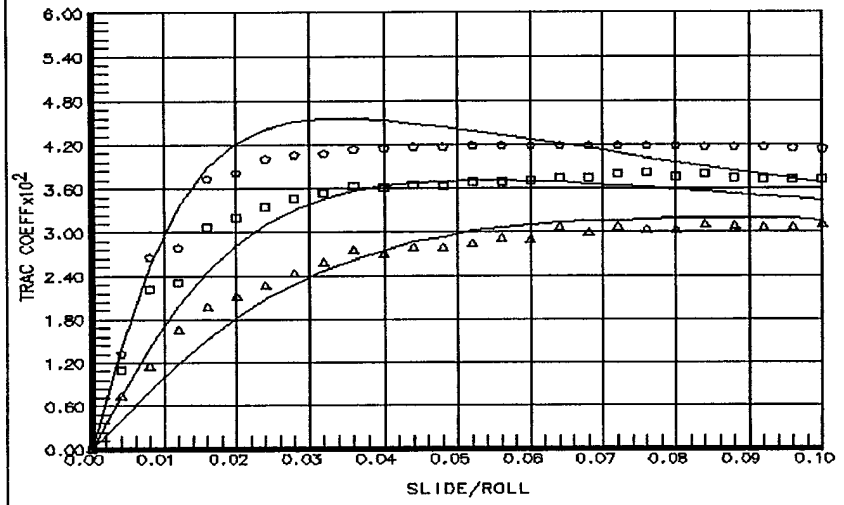
					XMU*	ALFA*	BETA*
△	684MPA	151N	6.89M/S	298K # 26	6.067E+00	5.500E-09	8.962E-02
□	850MPA	298N	6.89M/S	298K # 27	6.067E+00	5.500E-09	8.962E-02
○	1019MPA	516N	6.89M/S	298K # 28	6.067E+00	5.500E-09	8.962E-02



AD Shell ST-78 (Navy Gear Oil 2190)

NEWTONIAN MODEL TYPE 1 ad2.dat

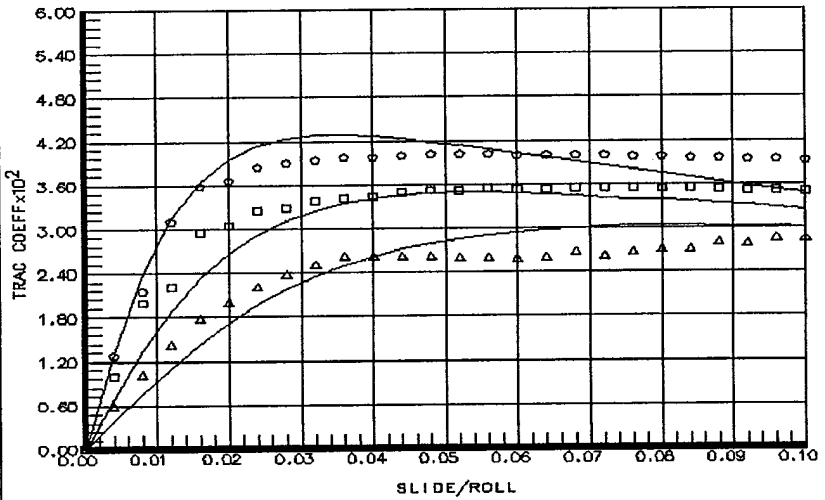
					XMU*	ALFA*	BETA*
△	684MPA	151N	8.55M/S	298K # 30	4.657E+00	5.500E-09	7.716E-02
□	848MPA	298N	8.55M/S	298K # 31	4.657E+00	5.500E-09	7.716E-02
○	1018MPA	516N	8.55M/S	298K # 32	4.657E+00	5.500E-09	7.716E-02



AD Shell ST-78 (Navy Gear Oil 2190)

NEWTONIAN MODEL TYPE 1 ad3.dat

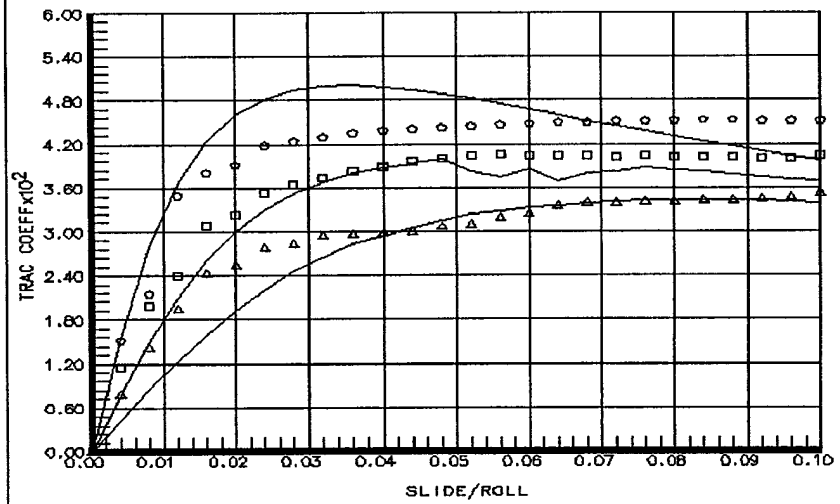
					XMU*	ALFA*	BETA*
△	683MPA	151N	10.32M/S	298K # 34	3.753E+00	5.500E-09	6.840E-02
□	848MPA	298N	10.32M/S	298K # 35	3.753E+00	5.500E-09	6.840E-02
○	1017MPA	516N	10.32M/S	298K # 36	3.753E+00	5.500E-09	6.840E-02



AD Shell ST-78 (Navy Gear Oil 2190)

NEWTONIAN MODEL TYPE 1 ad4.dat

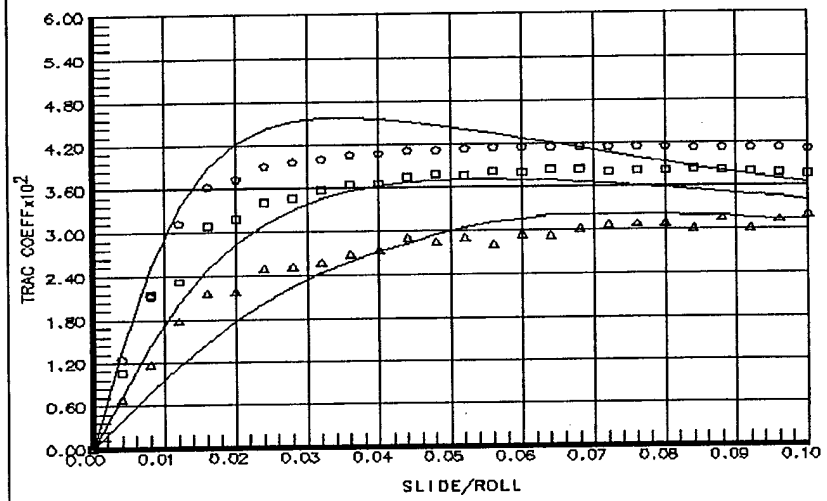
					XMU*	ALFA*	BETA*
△	684MPA	151N	6.89M/S	313K # 2	4.714E+00	5.500E-09	1.240E-01
□	848MPA	298N	6.89M/S	313K # 3	4.714E+00	5.500E-09	1.240E-01
○	1017MPA	516N	6.89M/S	313K # 4	4.714E+00	5.500E-09	1.240E-01



AD Shell ST-78 (Navy Gear Oil 2190)

NEWTONIAN MODEL TYPE 1 ad5.dat

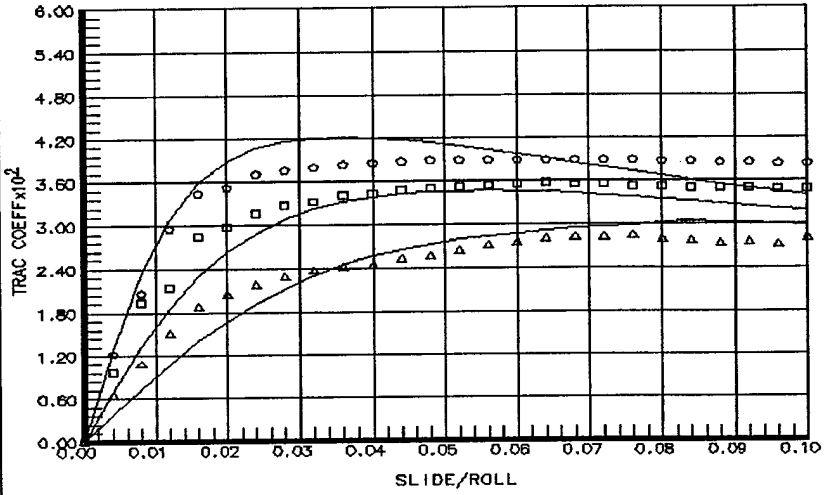
					XMU*	ALFA*	BETA*
△	681MPA	151N	8.55M/S 313K #	6	3.770E+00	5.500E-09	1.034E-01
□	847MPA	298N	8.55M/S 313K #	7	3.770E+00	5.500E-09	1.034E-01
○	1017MPA	516N	8.55M/S 313K #	8	3.770E+00	5.500E-09	1.034E-01



AD Shell ST-78 (Navy Gear Oil 2190)

NEWTONIAN MODEL TYPE 1 ad6.dat

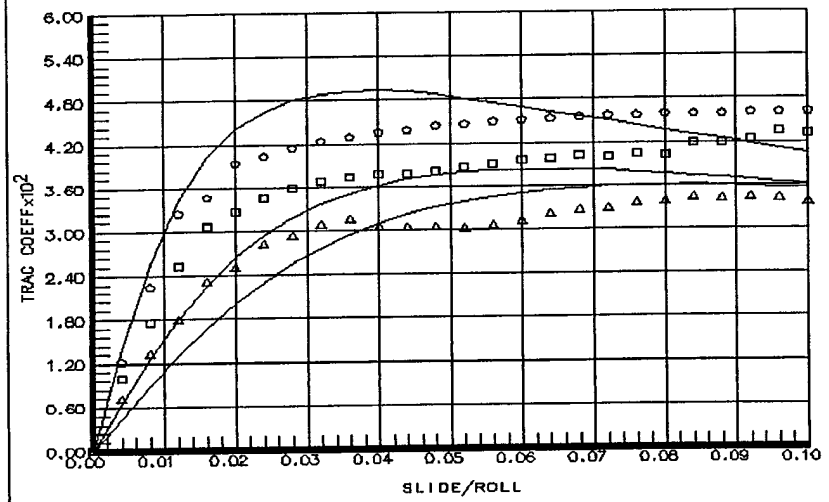
					XMU*	ALFA*	BETA*
△	680MPA	151N	10.32M/S 313K #	10	3.015E+00	5.500E-09	8.853E-02
□	847MPA	298N	10.32M/S 313K #	11	3.015E+00	5.500E-09	8.853E-02
○	1016MPA	516N	10.32M/S 313K #	12	3.015E+00	5.500E-09	8.853E-02



AD Shell ST-78 (Navy Gear Oil 2190)

NEWTONIAN MODEL TYPE 1 ad7.dat

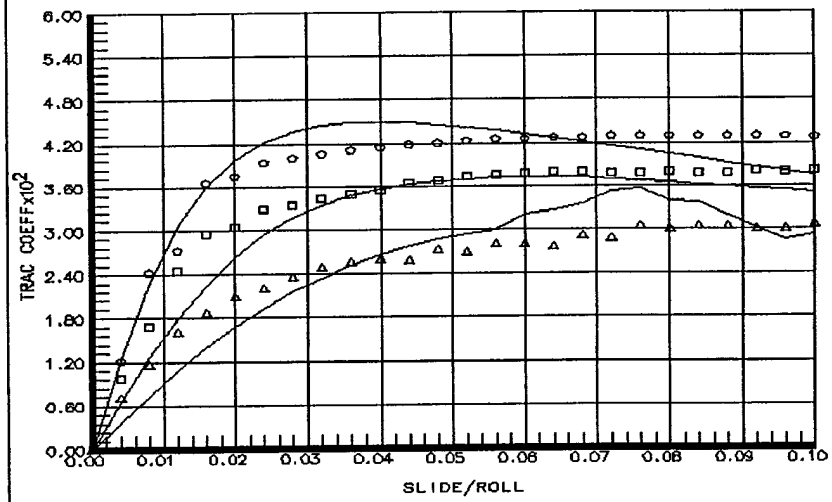
					XMU*	ALFA*	BETA*
△	687MPA	151N	6.89M/S 328K #	38	3.455E+00	5.500E-09	1.626E-01
□	850MPA	298N	6.89M/S 328K #	39	3.455E+00	5.500E-09	1.626E-01
○	1019MPA	516N	6.89M/S 328K #	40	3.455E+00	5.500E-09	1.626E-01



AD Shell ST-78 (Navy Gear Oil 2190)

NEWTONIAN MODEL TYPE 1 ad8.dat

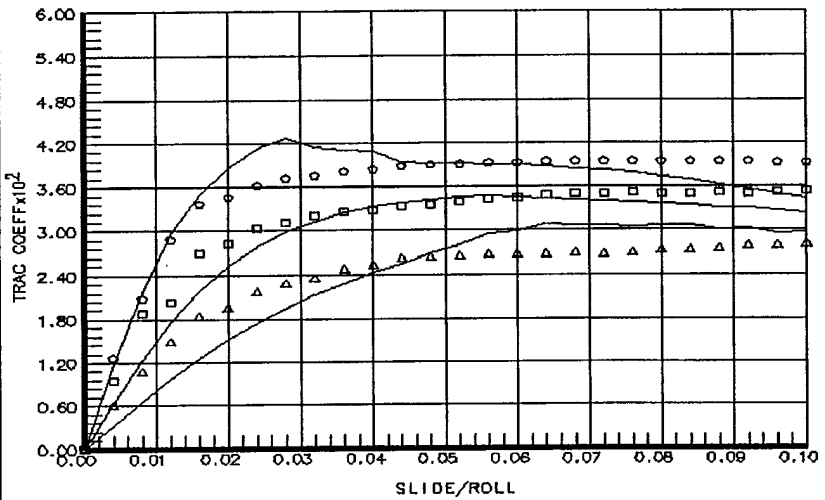
					XMU*	ALFA*	BETA*
△	683MPA	151N	8.55M/S 328K #	42	2.509E+00	5.500E-09	1.280E-01
□	848MPA	298N	8.55M/S 328K #	43	2.509E+00	5.500E-09	1.280E-01
○	1017MPA	516N	8.55M/S 328K #	44	2.509E+00	5.500E-09	1.280E-01



AD Shell ST-78 (Navy Gear Oil 2190)

NEWTONIAN MODEL TYPE 1 ad9.dat

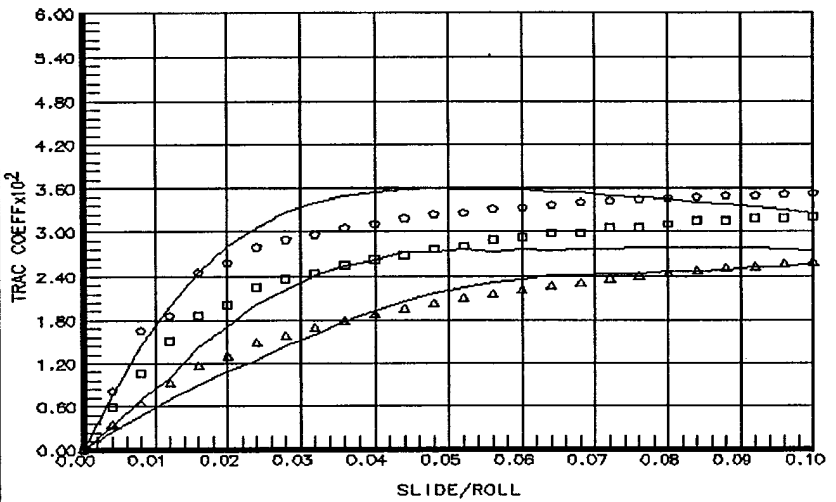
					XMU*	ALFA*	BETA*
△	682MPA	151N	10.32M/S	328K # 46	2.227E+00	5.600E-09	1.113E-01
□	848MPA	298N	10.32M/S	328K # 47	2.227E+00	5.600E-09	1.113E-01
○	1017MPA	516N	10.32M/S	328K # 48	2.227E+00	5.500E-09	1.113E-01



AD Shell ST-78 (Navy Gear Oil 2190)

NEWTONIAN MODEL TYPE 1 ad11.dat

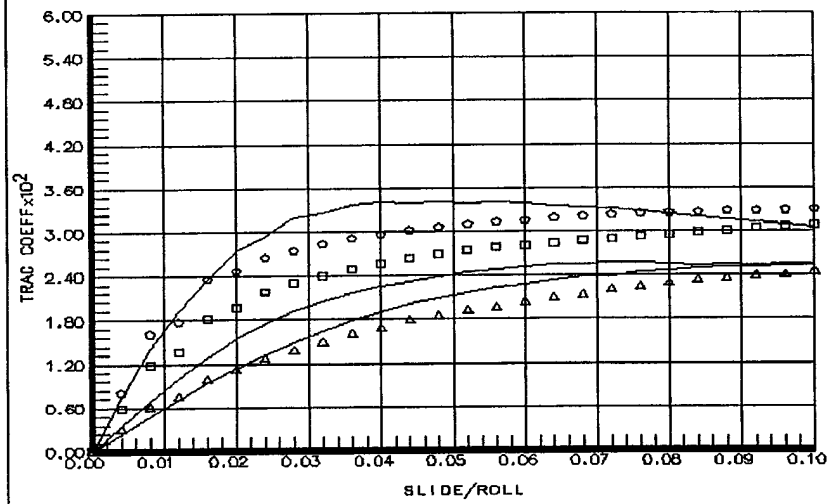
					XMU*	ALFA*	BETA*
△	680MPA	151N	8.55M/S	367K # 18	5.362E-01	5.500E-09	2.635E-01
□	847MPA	298N	8.55M/S	367K # 19	5.362E-01	5.500E-09	2.635E-01
○	1017MPA	516N	8.55M/S	367K # 20	5.362E-01	5.500E-09	2.635E-01



AD Shell ST-78 (Navy Gear Oil 2190)

NEWTONIAN MODEL TYPE 1 ad12.dat

					XMU*	ALFA*	BETA*
△	681MPA	151N	10.32M/S	367K # 22	5.824E-01	5.500E-09	2.133E-01
□	847MPA	298N	10.32M/S	367K # 23	5.824E-01	5.500E-09	2.133E-01
○	1017MPA	516N	10.32M/S	367K # 24	5.824E-01	5.500E-09	2.133E-01



5. Traction Data Set D: 89-105 Coray 100 New

Data set name: BB 89-105 Coray 100 new
Rolling radii [Disks 1 & 2] (in): 0.75 0.75
Crown radii [Disks 1 & 2] (in): 10.50 8.10

Number of data sets found = 108

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
1	75.00	1.35	255.20	311.20	283.20	49	0.71	1.49	0.40	0.40	1.00	8.76E-06	bb75a #1
2	75.00	4.90	255.20	311.20	283.20	49	0.71	1.49	0.40	0.40	1.00	8.79E-05	bb75a #2
3	75.00	9.16	255.20	311.20	283.20	49	0.71	1.49	0.40	0.40	1.00	2.14E-04	bb75a #3
4	75.00	22.65	255.20	311.20	283.20	49	0.71	1.49	0.40	0.40	1.00	1.79E-04	bb75a #4
5	75.00	43.95	255.20	311.20	283.20	49	0.71	1.49	0.40	0.40	1.00	3.27E-04	bb75a #5
6	75.00	75.19	255.20	311.20	283.20	49	0.71	1.49	0.40	0.40	1.00	2.19E-03	bb75a #6
7	75.00	1.35	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	1.22E-04	bb75b #1
8	75.00	4.90	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	6.56E-06	bb75b #2
9	75.00	9.16	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	4.05E-06	bb75b #3
10	75.00	22.65	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	6.92E-06	bb75b #4
11	75.00	43.95	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	2.19E-05	bb75b #5
12	75.00	75.19	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	2.31E-04	bb75b #6
13	75.00	1.35	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	3.10E-04	bb75c #1
14	75.00	4.90	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	3.27E-06	bb75c #2
15	75.00	9.16	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	9.20E-07	bb75c #3
16	75.00	22.65	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	1.78E-05	bb75c #4
17	75.00	43.95	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	8.72E-05	bb75c #5
18	75.00	75.19	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	1.95E-04	bb75c #6
19	75.00	1.35	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	1.21E-03	bb75d #1
20	75.00	4.90	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	2.80E-06	bb75d #2
21	75.00	9.16	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	1.83E-06	bb75d #3
22	75.00	22.65	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	1.22E-05	bb75d #4
23	75.00	43.95	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	2.57E-06	bb75d #5
24	75.00	75.19	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	9.76E-05	bb75d #6
25	75.00	1.35	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	1.17E-03	bb75e #1
26	75.00	4.90	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	7.95E-06	bb75e #2
27	75.00	9.16	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	9.15E-06	bb75e #3
28	75.00	22.65	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	7.45E-06	bb75e #4
29	75.00	43.95	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	2.58E-05	bb75e #5
30	75.00	75.19	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	1.27E-04	bb75e #6
31	100.00	1.35	255.20	311.20	283.20	49	0.71	1.49	0.40	0.40	1.00	3.79E-05	bb100a #1
32	100.00	4.90	255.20	311.20	283.20	49	0.71	1.49	0.40	0.40	1.00	6.48E-05	bb100a #2
33	100.00	9.16	255.20	311.20	283.20	49	0.71	1.49	0.40	0.40	1.00	1.16E-04	bb100a #3
34	100.00	22.65	255.20	311.20	283.20	49	0.71	1.49	0.40	0.40	1.00	2.52E-04	bb100a #4
35	100.00	43.95	255.20	311.20	283.20	49	0.71	1.49	0.40	0.40	1.00	5.10E-04	bb100a #5
36	100.00	75.19	255.20	311.20	283.20	49	0.71	1.49	0.40	0.40	1.00	1.64E-03	bb100a #6
37	100.00	1.35	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	1.07E-04	bb100b #1
38	100.00	4.90	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	3.85E-06	bb100b #2
39	100.00	9.16	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	1.39E-05	bb100b #3
40	100.00	22.65	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	2.12E-05	bb100b #4
41	100.00	43.95	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	4.68E-05	bb100b #5
42	100.00	75.19	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	2.26E-04	bb100b #6
43	100.00	1.35	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	9.16E-05	bb100c #1
44	100.00	4.90	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	1.83E-06	bb100c #2
45	100.00	9.16	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	7.02E-07	bb100c #3
46	100.00	22.65	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	5.12E-06	bb100c #4
47	100.00	43.95	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	3.47E-05	bb100c #5
48	100.00	75.19	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	2.42E-04	bb100c #6
49	100.00	1.35	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	3.27E-04	bb100d #1
50	100.00	4.90	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	8.49E-06	bb100d #2

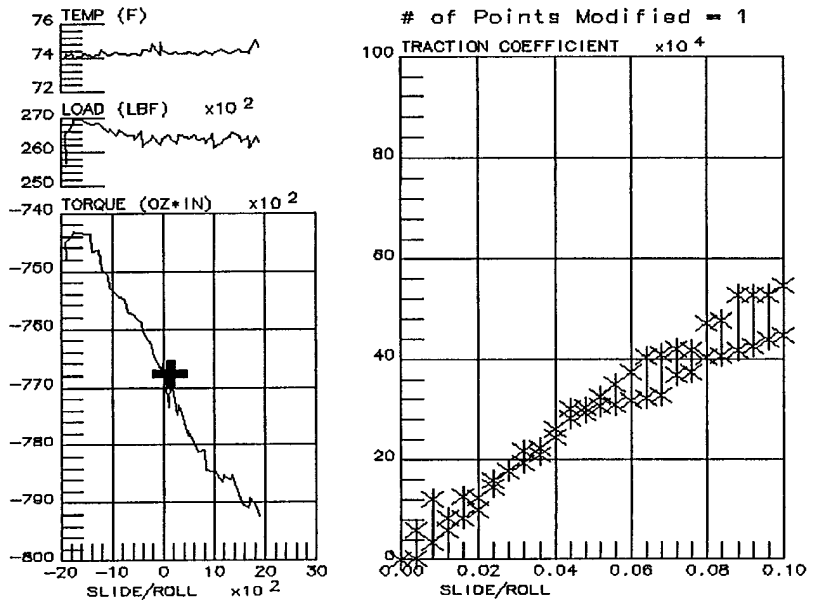
Data set: BB 89-105 Coray 100 new ....continued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
51	100.00	9.16	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	1.55E-05	bb100d #3
52	100.00	22.65	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	4.54E-06	bb100d #4
53	100.00	43.95	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	6.44E-06	bb100d #5
54	100.00	75.19	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	1.12E-04	bb100d #6
55	100.00	1.35	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	4.30E-04	bb100e #1
56	100.00	4.90	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	1.72E-05	bb100e #2
57	100.00	9.16	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	3.54E-05	bb100e #3
58	100.00	22.65	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	1.14E-05	bb100e #4
59	100.00	43.95	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	6.01E-05	bb100e #5
60	100.00	75.19	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	1.59E-04	bb100e #6
61	120.00	1.35	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	2.19E-05	bb120b #1
62	120.00	4.90	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	6.15E-06	bb120b #2
63	120.00	9.16	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	1.05E-05	bb120b #3
64	120.00	22.65	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	5.61E-05	bb120b #4
65	120.00	43.95	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	6.14E-05	bb120b #5
66	120.00	75.19	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	2.11E-04	bb120b #6
67	120.00	1.35	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	2.05E-05	bb120c #1
68	120.00	4.90	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	7.58E-06	bb120c #2
69	120.00	9.16	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	3.64E-06	bb120c #3
70	120.00	22.65	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	5.21E-06	bb120c #4
71	120.00	43.95	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	1.32E-04	bb120c #5
72	120.00	75.19	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	1.52E-04	bb120c #6
73	120.00	1.35	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	5.16E-04	bb120d #1
74	120.00	4.90	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	7.41E-06	bb120d #2
75	120.00	9.16	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	3.83E-06	bb120d #3
76	120.00	22.65	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	3.98E-06	bb120d #4
77	120.00	43.95	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	3.02E-06	bb120d #5
78	120.00	75.19	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	1.17E-04	bb120d #6
79	120.00	1.35	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	3.29E-05	bb120e #1
80	120.00	4.90	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	2.84E-05	bb120e #2
81	120.00	9.16	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	1.36E-05	bb120e #3
82	120.00	22.65	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	1.07E-05	bb120e #4
83	120.00	43.95	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	3.93E-05	bb120e #5
84	120.00	75.19	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	6.64E-05	bb120e #6
85	180.00	1.35	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	1.75E-05	bb180b #1
86	180.00	4.90	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	1.04E-05	bb180b #2
87	180.00	9.16	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	8.01E-06	bb180b #3
88	180.00	22.65	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	2.64E-05	bb180b #4
89	180.00	43.95	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	3.73E-05	bb180b #5
90	180.00	75.19	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	1.24E-04	bb180b #6
91	180.00	1.35	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	4.99E-05	bb180c #1
92	180.00	4.90	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	9.14E-06	bb180c #2
93	180.00	9.16	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	1.59E-06	bb180c #3
94	180.00	22.65	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	2.36E-05	bb180c #4
95	180.00	43.95	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	6.55E-05	bb180c #5
96	180.00	75.19	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	6.44E-05	bb180c #6
97	180.00	1.35	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	2.96E-04	bb180d #1
98	180.00	4.90	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	6.38E-06	bb180d #2
99	180.00	9.16	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	3.39E-05	bb180d #3
100	180.00	22.65	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	7.64E-06	bb180d #4
101	180.00	43.95	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	3.05E-06	bb180d #5
102	180.00	75.19	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	5.99E-05	bb180d #6
103	180.00	1.35	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	3.40E-04	bb180e #1
104	180.00	4.90	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	5.98E-05	bb180e #2
105	180.00	9.16	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	2.26E-05	bb180e #3
106	180.00	22.65	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	7.17E-06	bb180e #4
107	180.00	43.95	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	3.46E-05	bb180e #5
108	180.00	75.19	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	1.39E-04	bb180e #6

Summary of Select Data Files

Filename	Temp	RollRpm	DataCurve #		
bb1.dat	75.00	2546.00	16	17	18
bb2.dat	75.00	3820.00	22	23	24
bb3.dat	75.00	5093.00	28	29	30
bb4.dat	100.00	2546.00	46	47	48
bb5.dat	100.00	3820.00	52	53	54
bb6.dat	100.00	5093.00	58	59	60
bb7.dat	120.00	2546.00	70	71	72
bb8.dat	120.00	3820.00	76	77	78
bb9.dat	120.00	5093.00	82	83	84
bb10.dat	180.00	2546.00	94	95	96
bb11.dat	180.00	3820.00	100	101	102
bb12.dat	180.00	5093.00	106	107	108

BB 89-105 Coray 100 new #1
75F 1LBF 283RPM 1 FILE: bb75a



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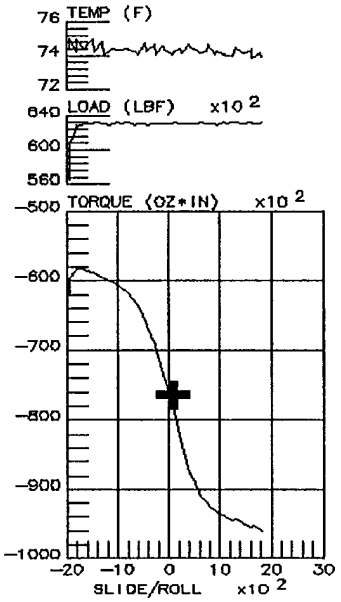
BB 89-105 Coray 100 new #2
75F 5LBF 283RPM 2 FILE: bb75a



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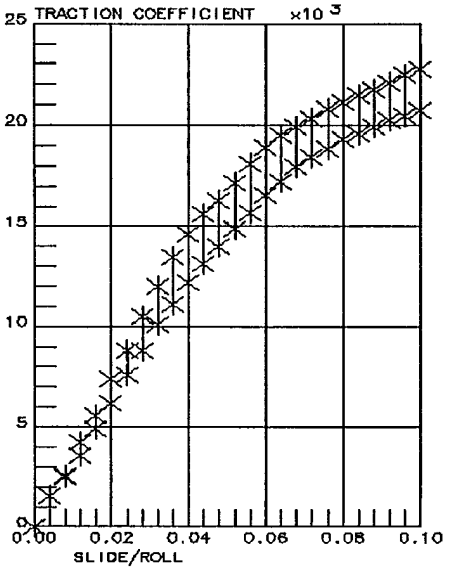
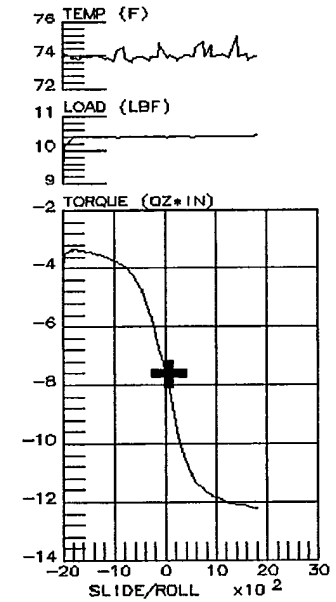


BB 89-105 Coray 100 new #3
75F 9LBF 283RPM 3 FILE: bb75a



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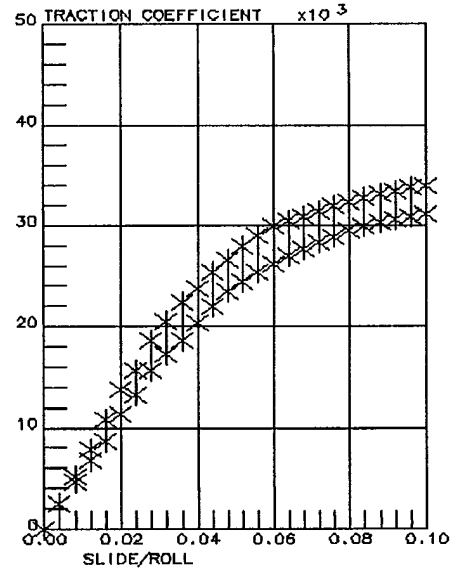
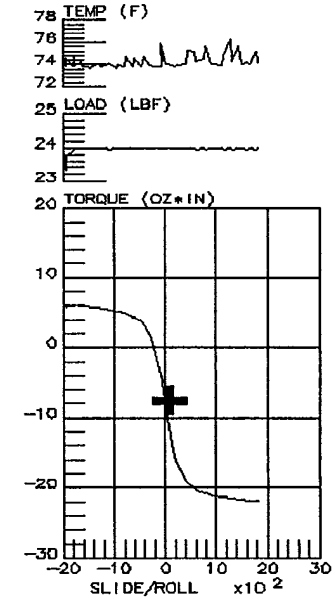


BB 89-105 Coray 100 new #4
75F 23LBF 283RPM 4 FILE: bb75a



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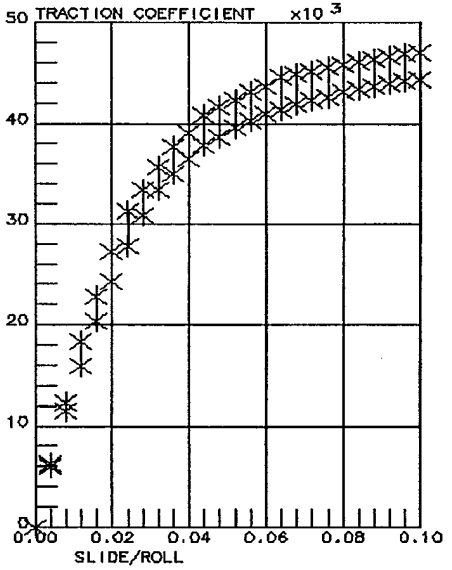
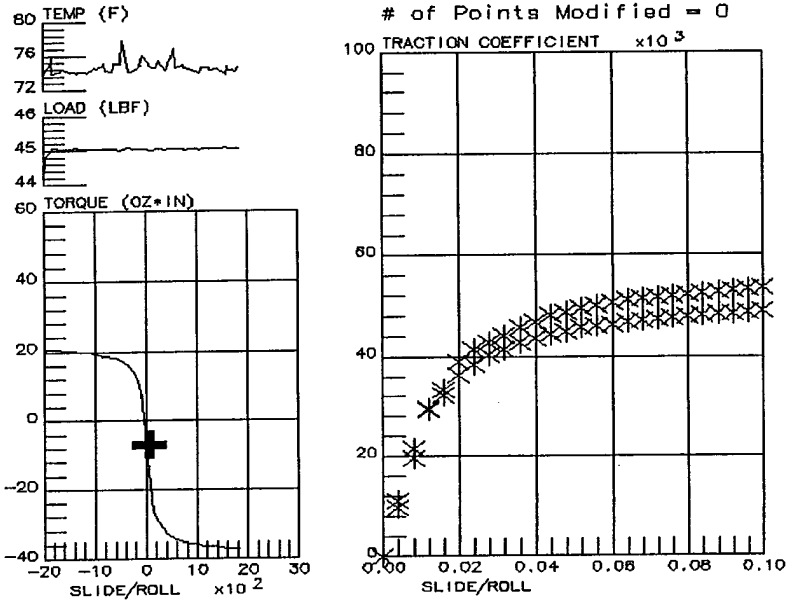
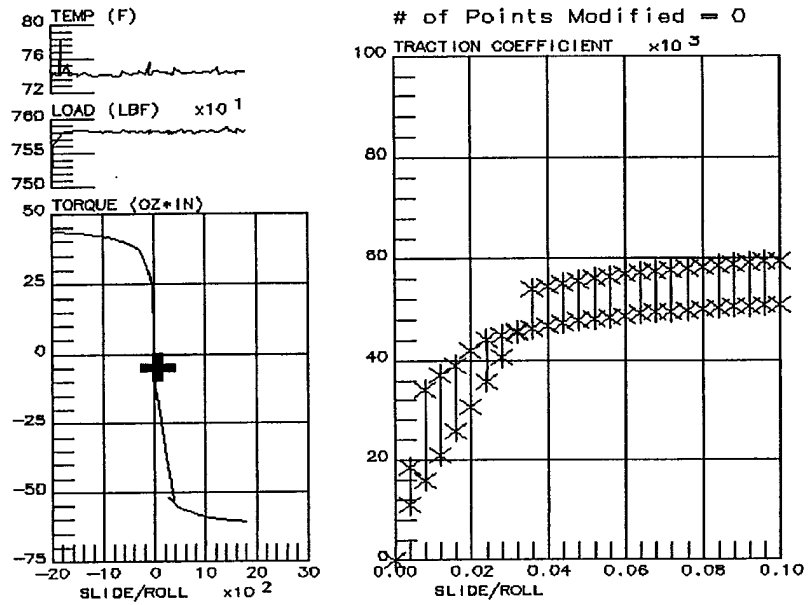


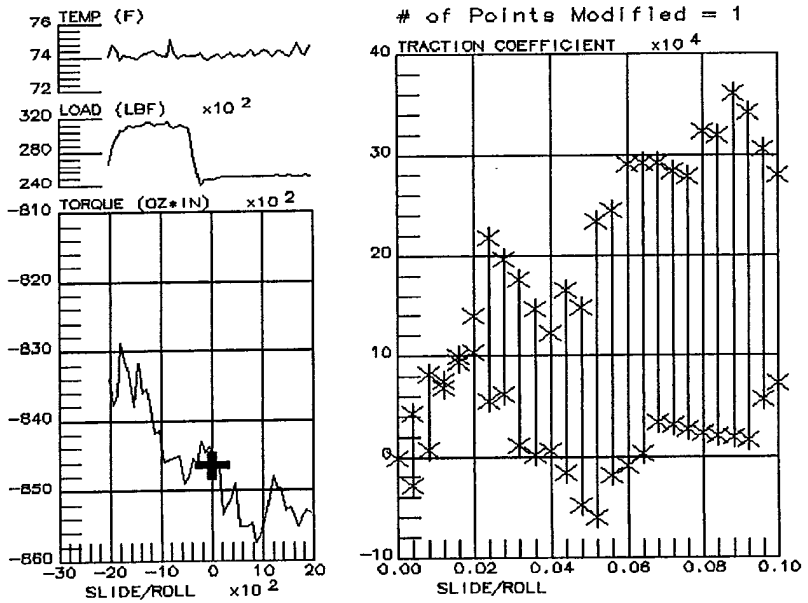
BB 89-105 Coray 100 new #5
75F 44LBF 283RPM 5 FILE: bb75a



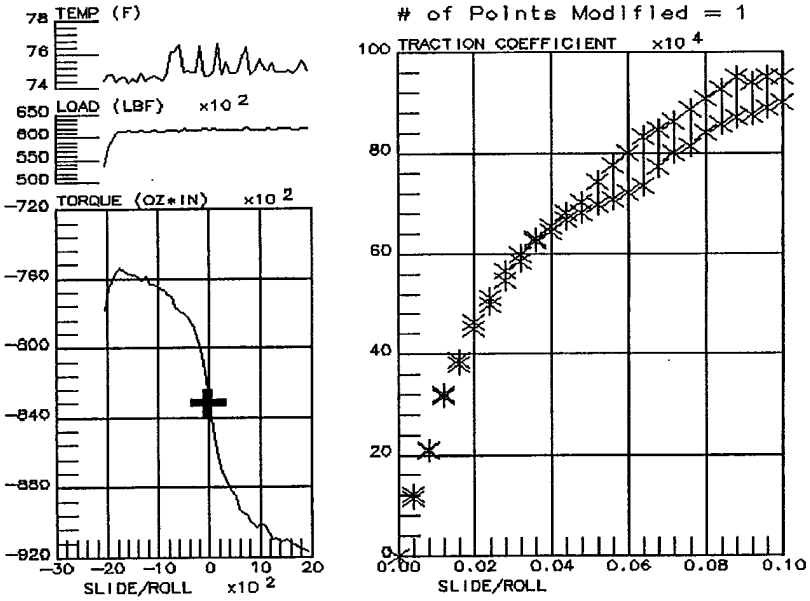
BB 89-105 Coray 100 new #6
75F 75LBF 283RPM 6 FILE: bb75a



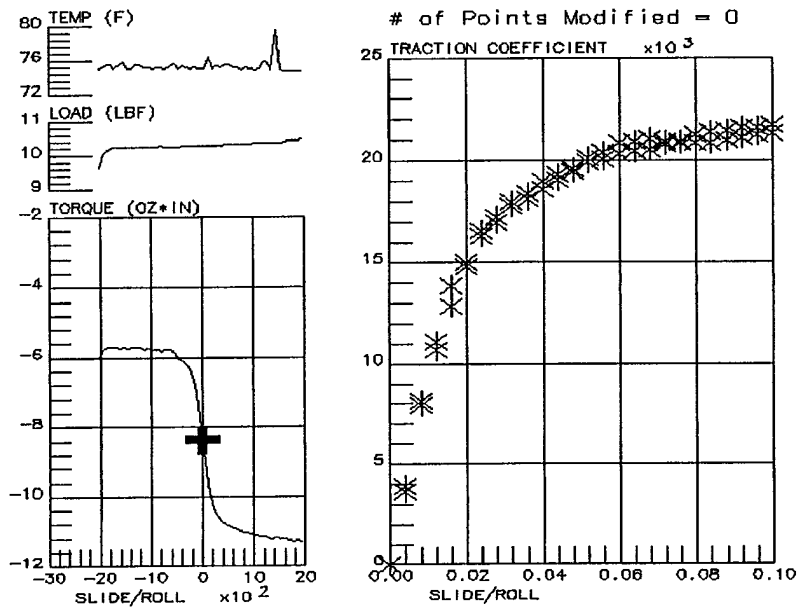
BB 89-105 Coray 100 new #7
75F 1LBF 1273RPM 1 FILE: bb75b



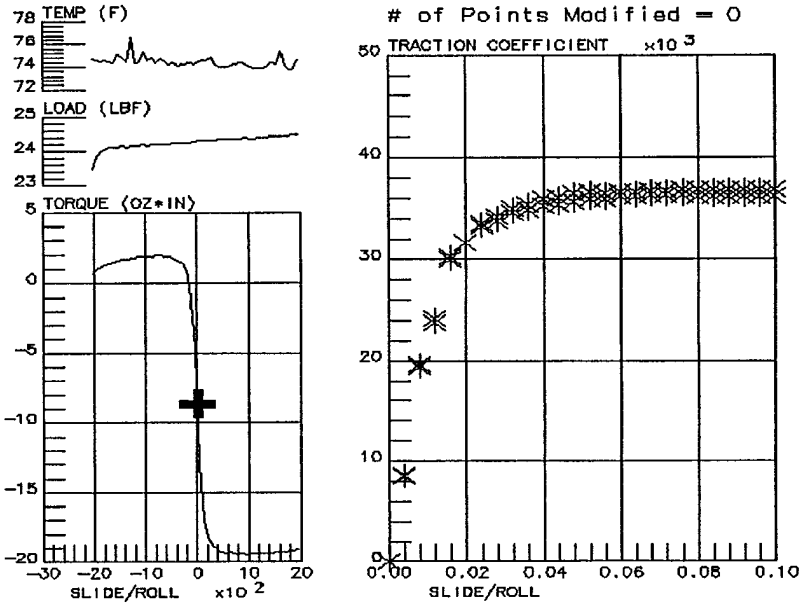
BB 89-105 Coray 100 new #8
75F 5LBF 1273RPM 2 FILE: bb75b



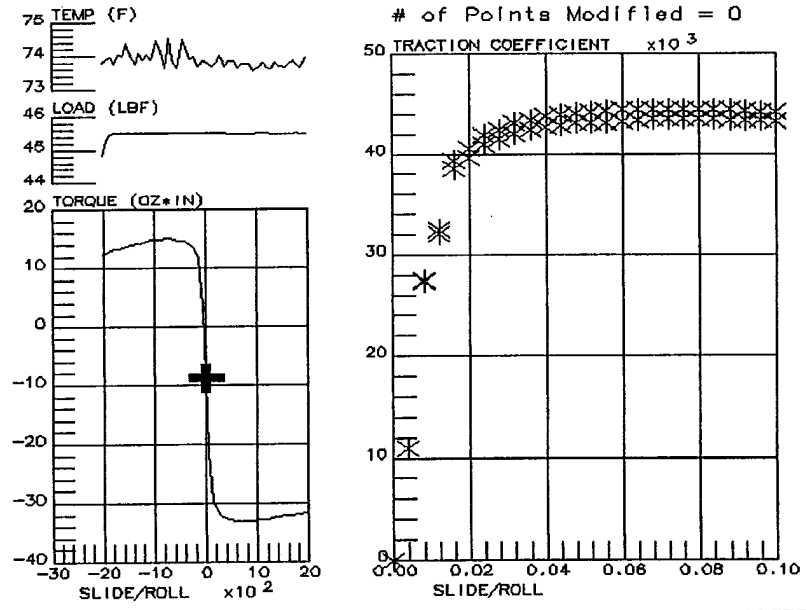
BB 89-105 Coray 100 new #9
75F 9LBF 1273RPM 3 FILE: bb75b



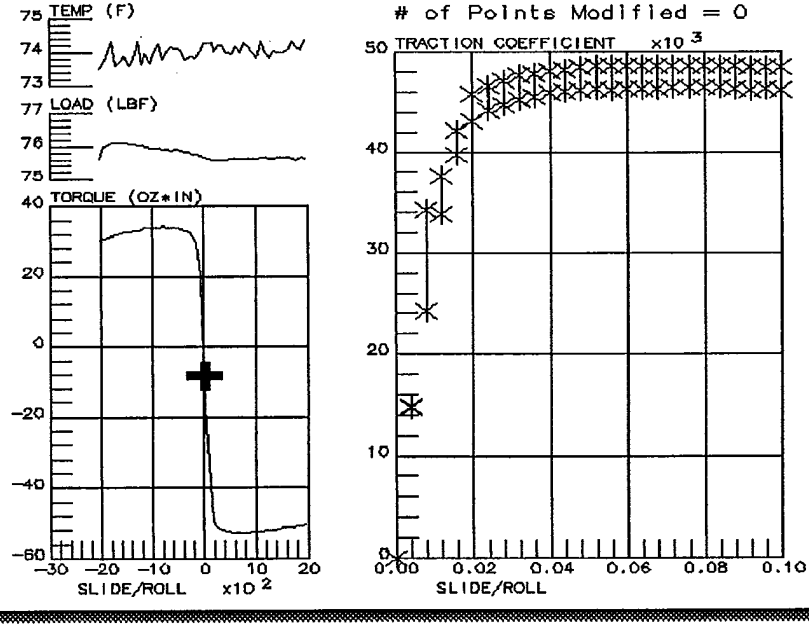
BB 89-105 Coray 100 new #10
75F 23LBF 1273RPM 4 FILE: bb75b



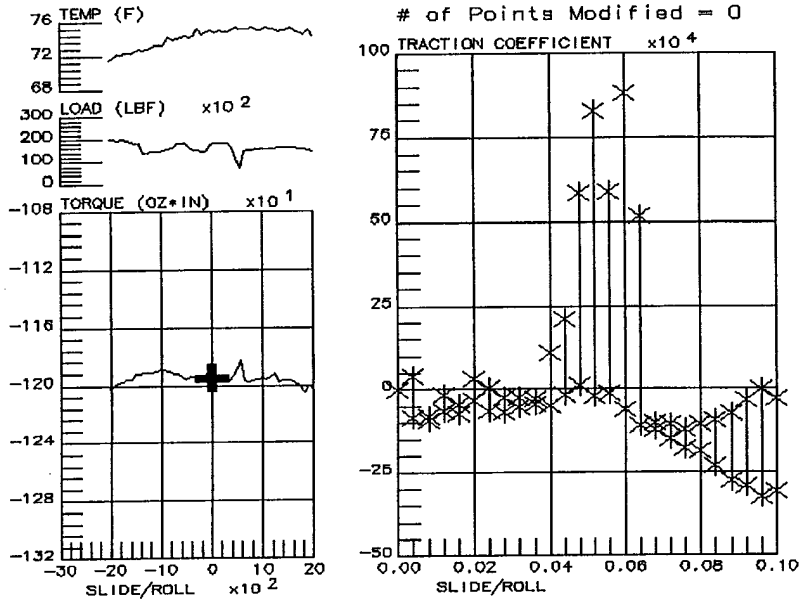
BB 89-105 Coray 100 new #11
75F 44LBF 1273RPM 5 FILE: bb75b



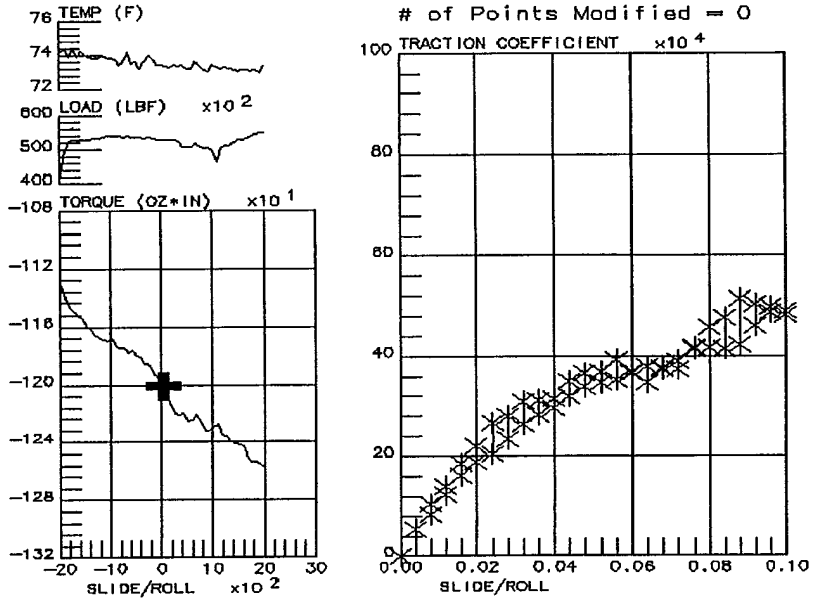
BB 89-105 Coray 100 new #12
75F 75LBF 1273RPM 6 FILE: bb75b



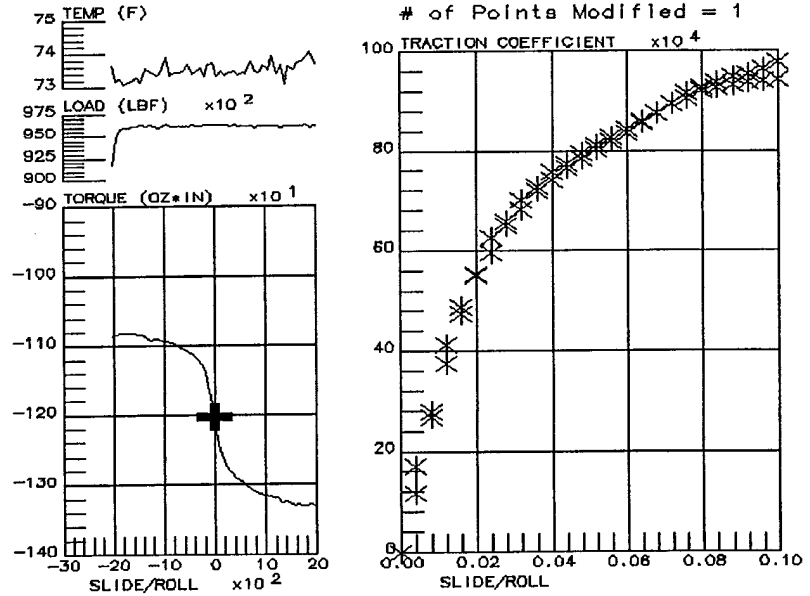
BB 89-105 Coray 100 new #13
75F 1LBF 2546RPM 1 FILE: bb75c



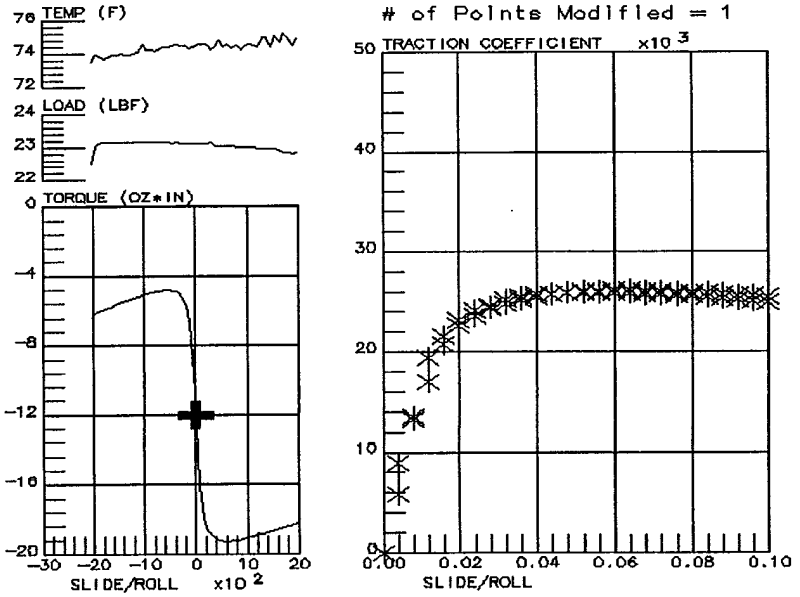
BB 89-105 Coray 100 new #14
75F 5LBF 2546RPM 2 FILE: bb75c



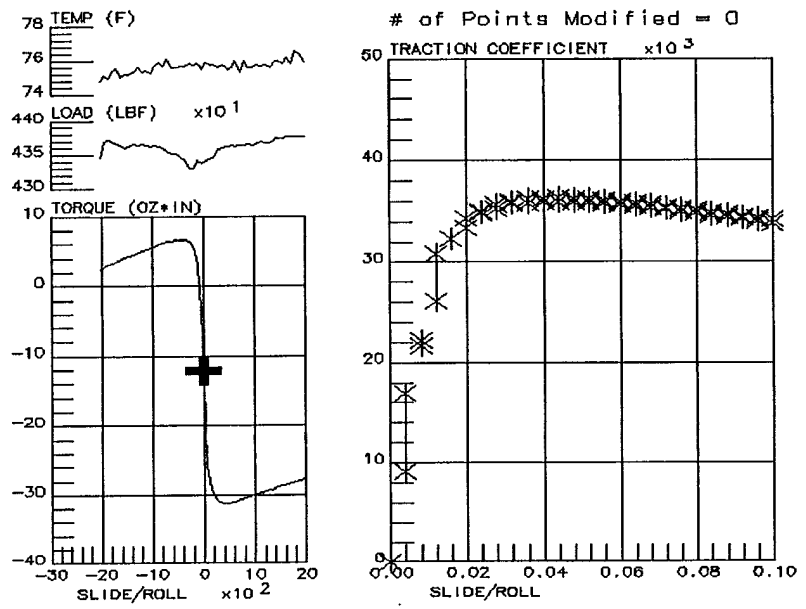
BB 89-105 Coray 100 new #15
75F 9LBF 2546RPM 3 FILE: bb75c



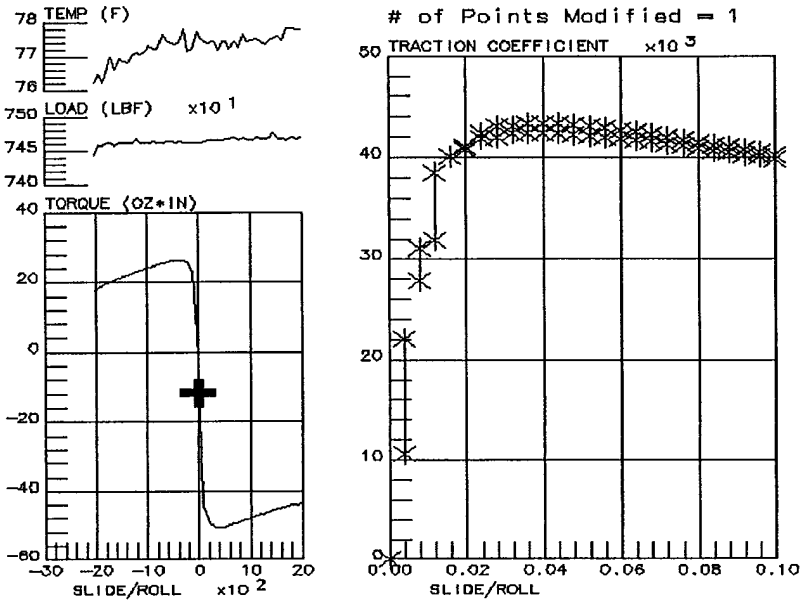
BB 89-105 Coray 100 new #16
75F 23LBF 2546RPM 4 FILE: bb75c



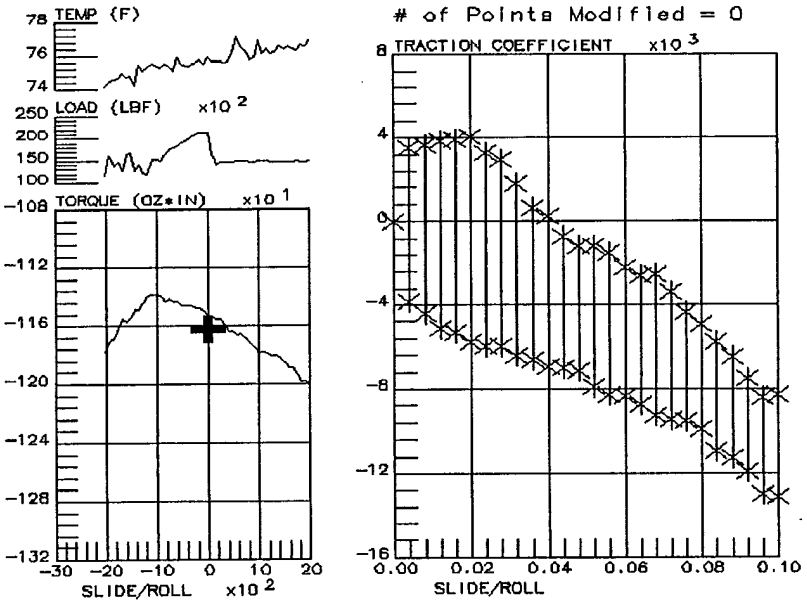
BB 89-105 Coray 100 new #17
75F 44LBF 2546RPM 5 FILE: bb75c



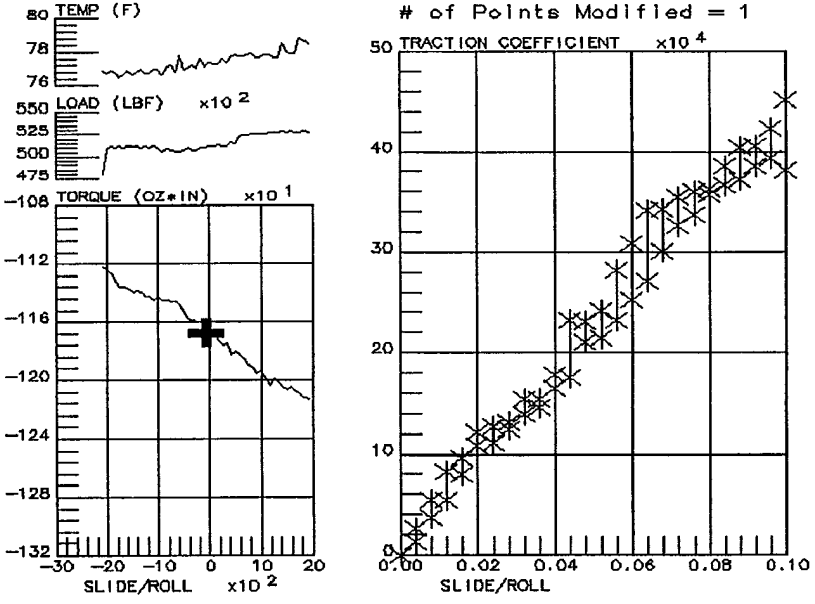
BB 89-105 Coray 100 new #18
75F 75LBF 2546RPM 6 FILE: bb75c



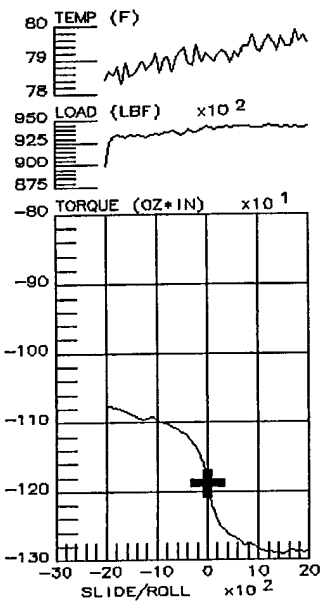
BB 89-105 Coray 100 new #19
75F 1LBF 3820RPM 1 FILE: bb75d

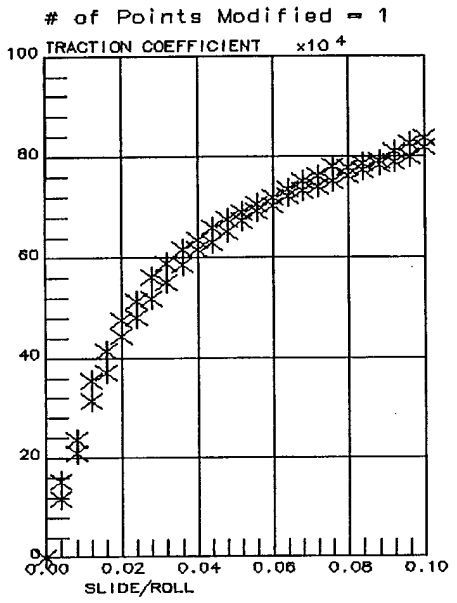


BB 89-105 Coray 100 new #20
75F 5LBF 3820RPM 2 FILE: bb75d

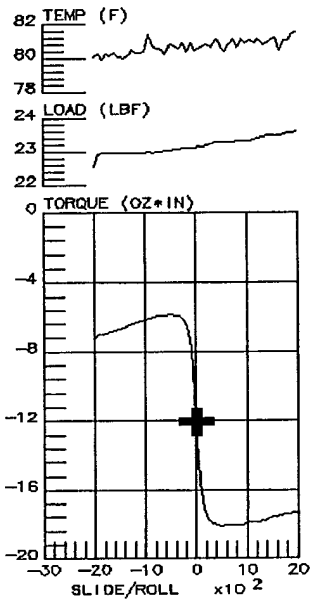


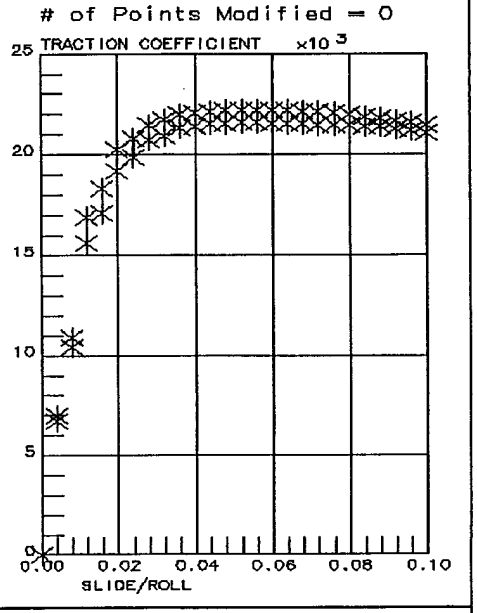
BB 89-105 Coray 100 new #21
75F 9LBF 3820RPM 3 FILE: bb75d



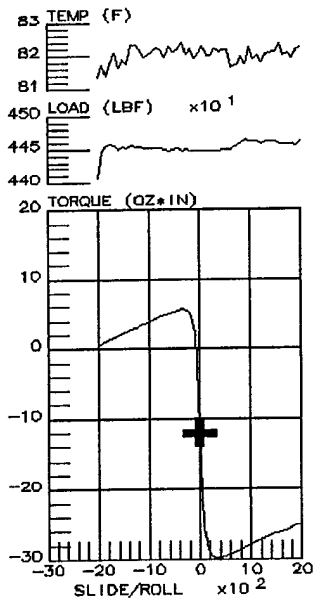


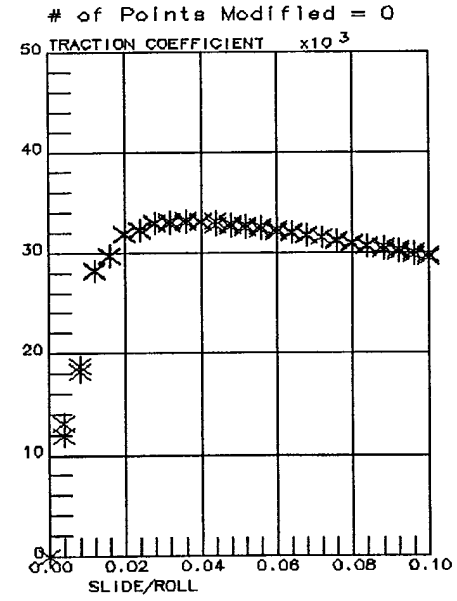
BB 89-105 Coray 100 new #22
75F 23LBF 3820RPM 4 FILE: bb75d



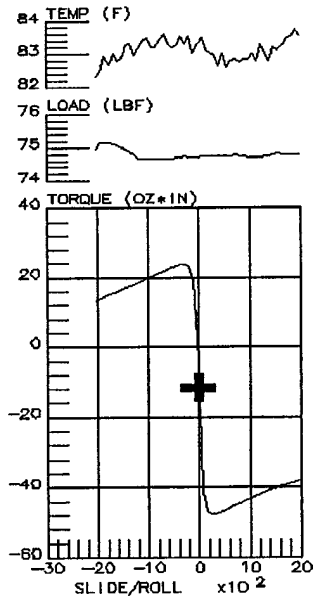


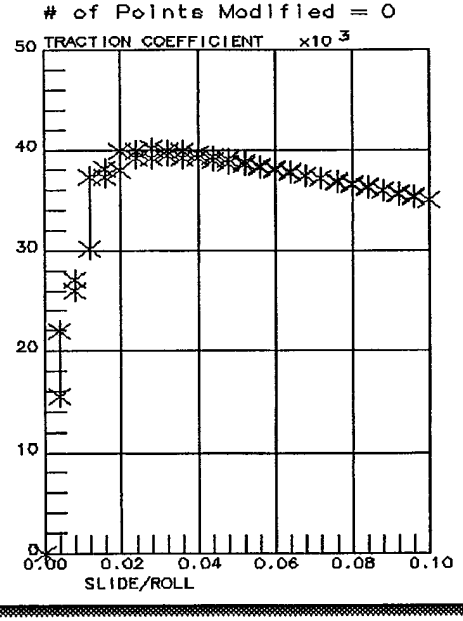
BB 89-105 Coray 100 new #23
75F 44LBF 3820RPM 5 FILE: bb75d



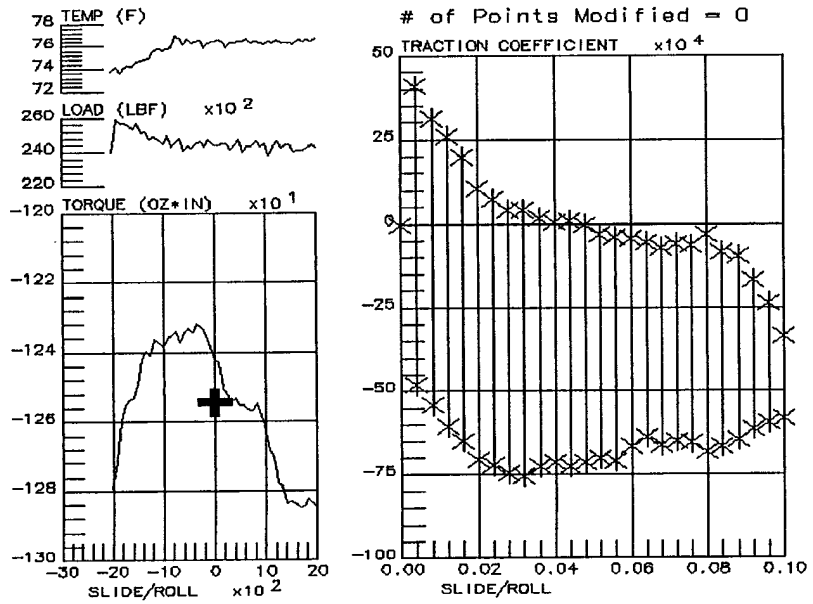


BB 89-105 Coray 100 new #24
75F 75LBF 3820RPM 6 FILE: bb75d

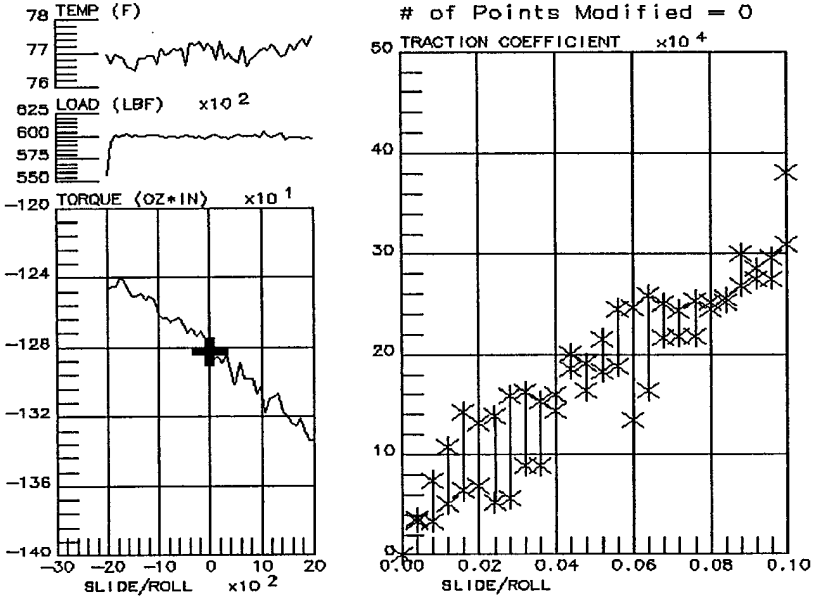




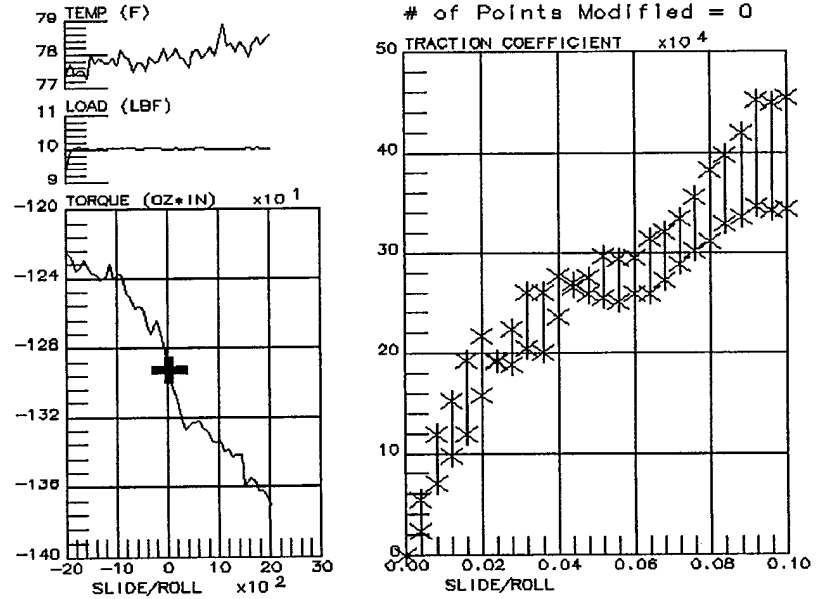
BB 89-105 Coray 100 new #25
75F 1LBF 5093RPM 1 FILE: bb75e



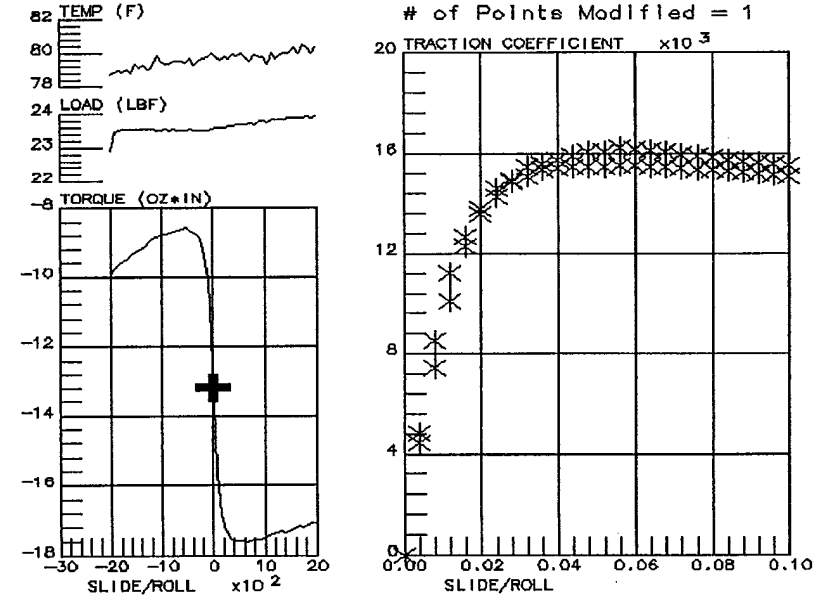
BB 89-105 Coray 100 new #26
75F 5LBF 5093RPM 2 FILE: bb75e



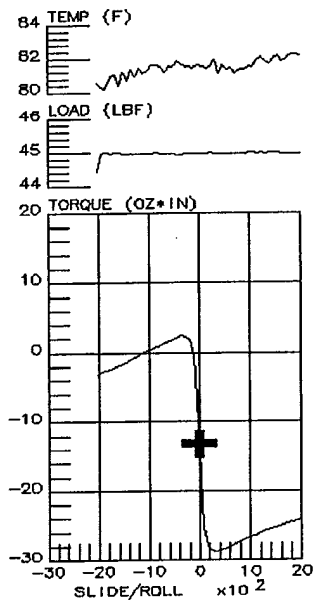
BB 89-105 Coray 100 new #27
75F 9LBF 5093RPM 3 FILE: bb75e



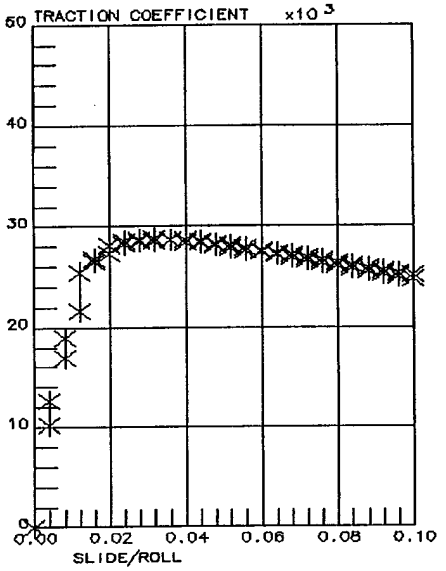
BB 89-105 Coray 100 new #28
75F 23LBF 5093RPM 4 FILE: bb75e



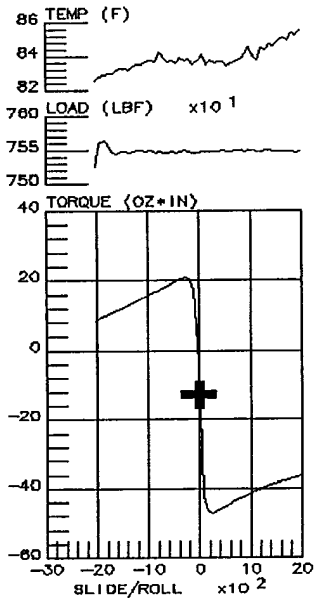
BB 89-105 Coray 100 new #29
75F 44LBF 5093RPM 5 FILE: bb75e



# of Points Modified = 3



BB 89-105 Coray 100 new #30
75F 75LBF 5093RPM 6 FILE: bb75e



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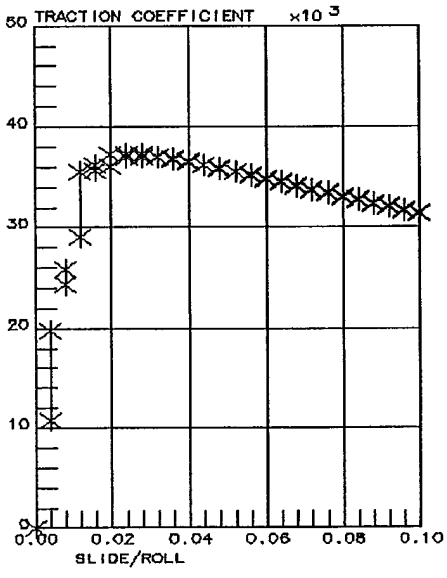
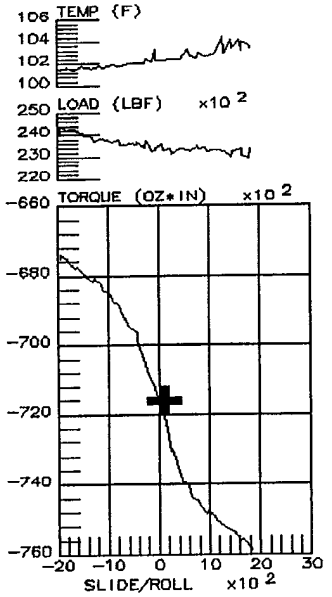
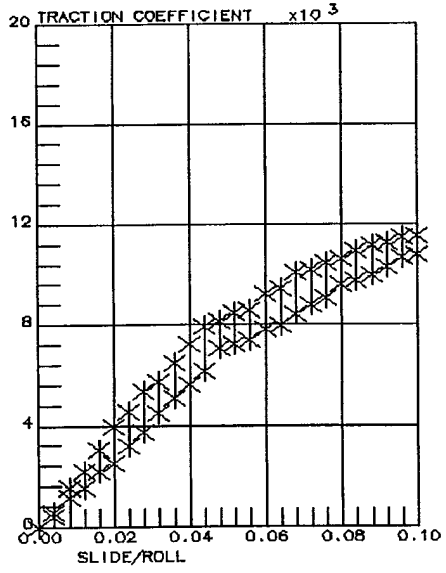


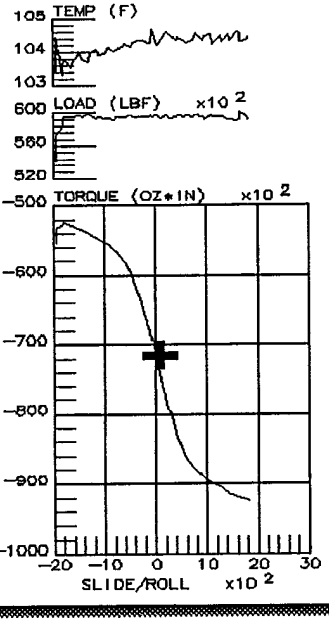
BB 89-105 Coray 100 new #31
100F 1LBF 283RPM 1 FILE: bb100a



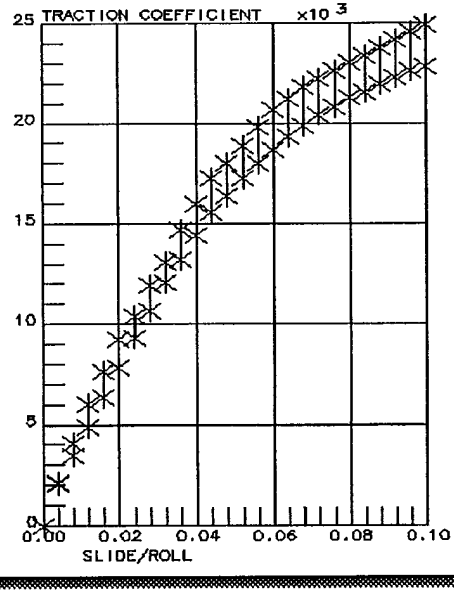
# of Points Modified = 1



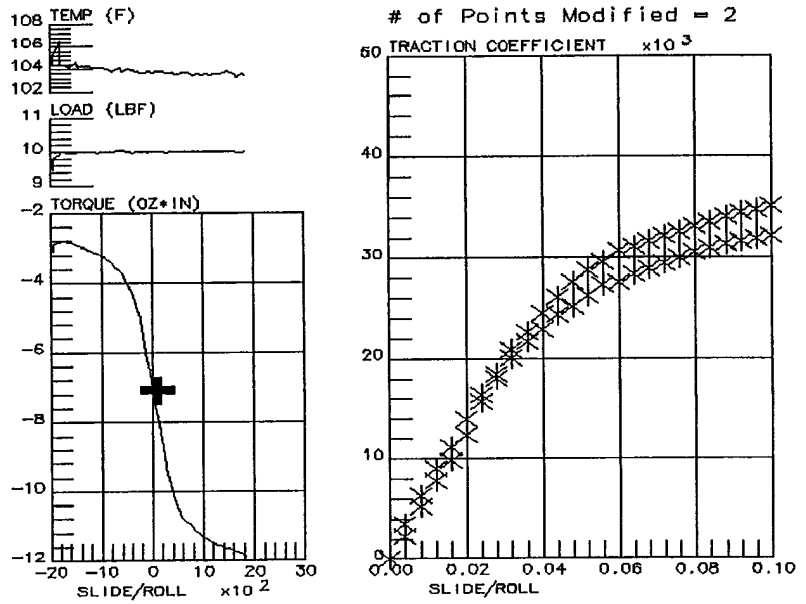
BB 89-105 Coray 100 new #32
100F 5LBF 283RPM 2 FILE: bb100a



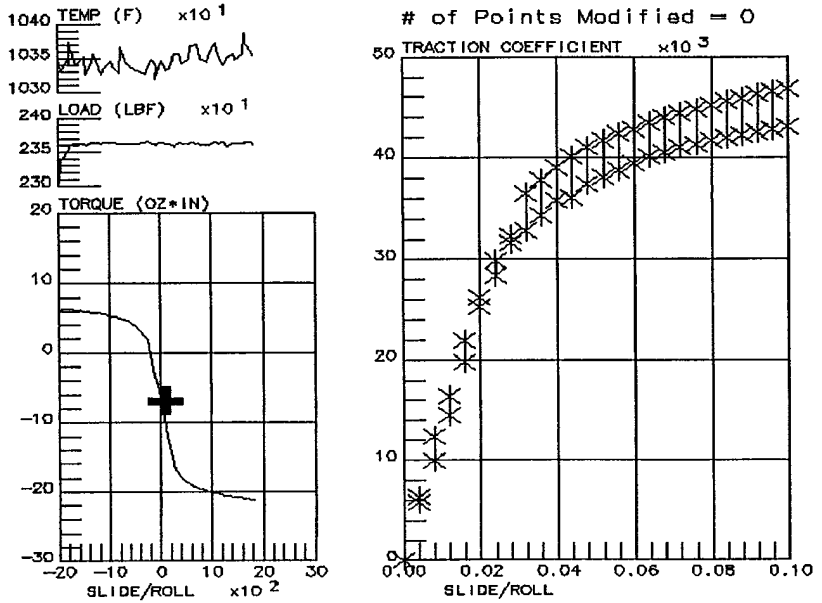
# of Points Modified = 2



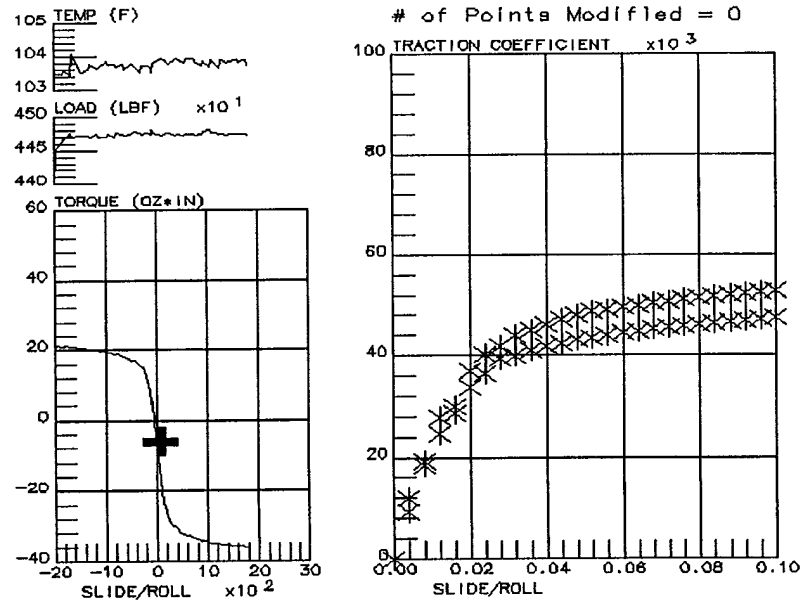
BB 89-105 Coray 100 new #33
100F 9LBF 283RPM 3 FILE: bb100a



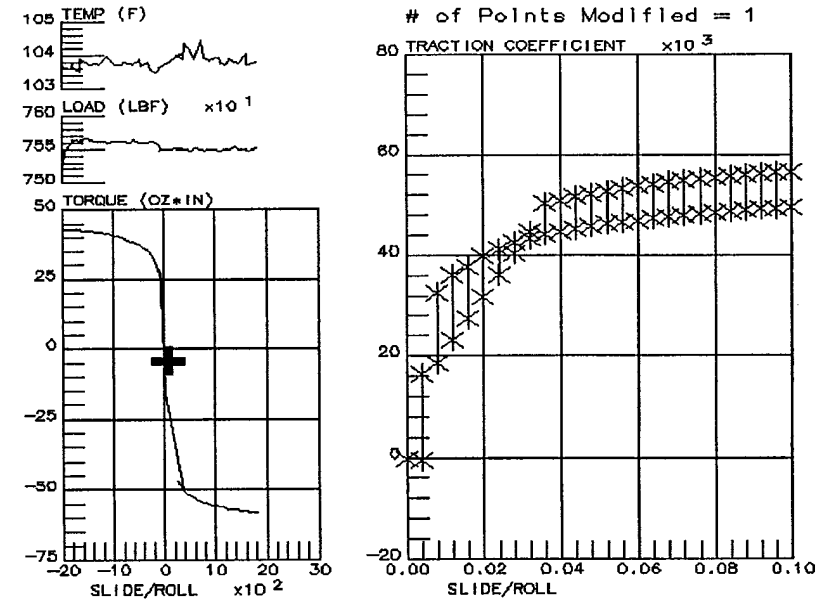
BB 89-105 Coray 100 new #34
100F 23LBF 283RPM 4 FILE: bb100a

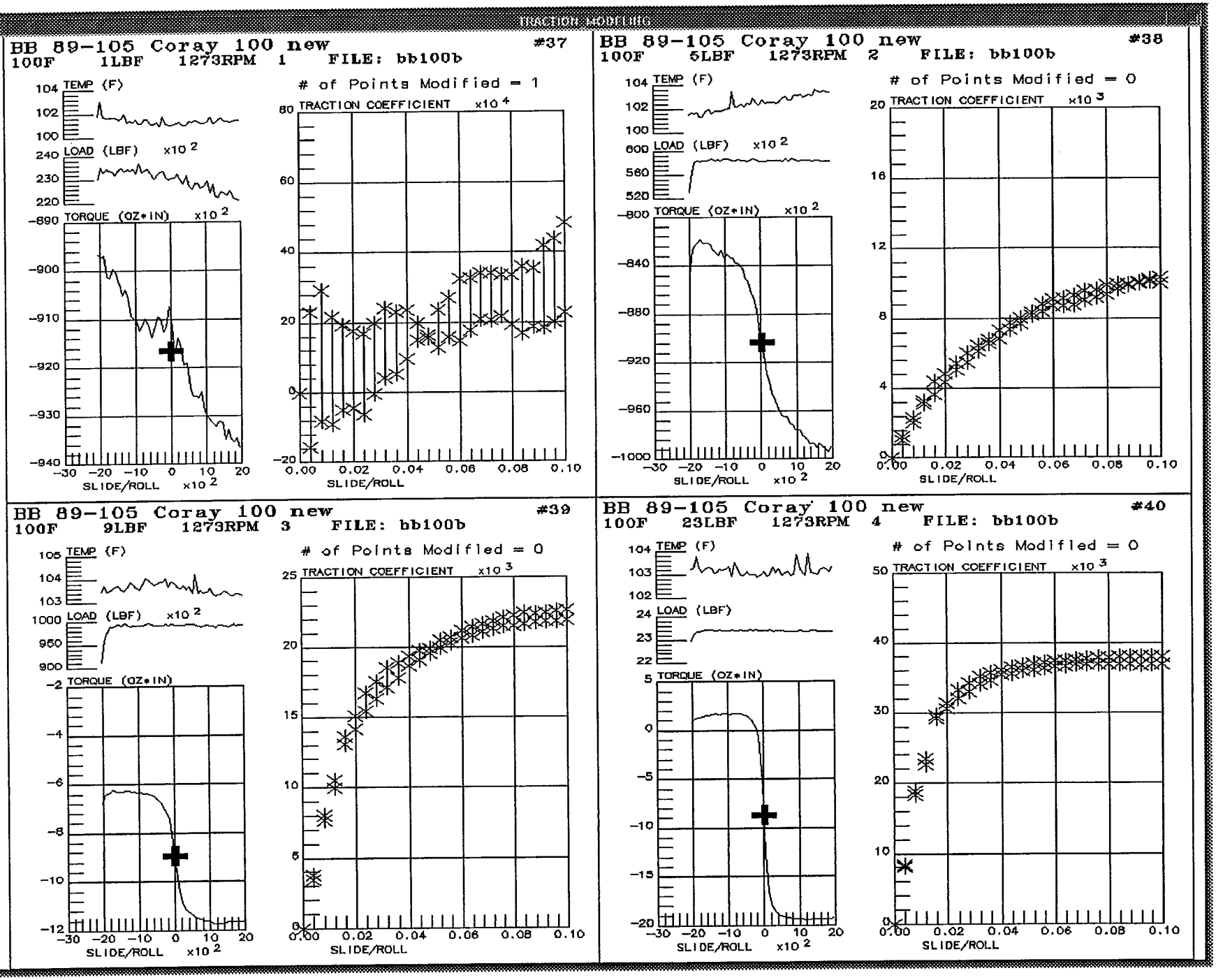


BB 89-105 Coray 100 new #35
100F 44LBF 283RPM 5 FILE: bb100a

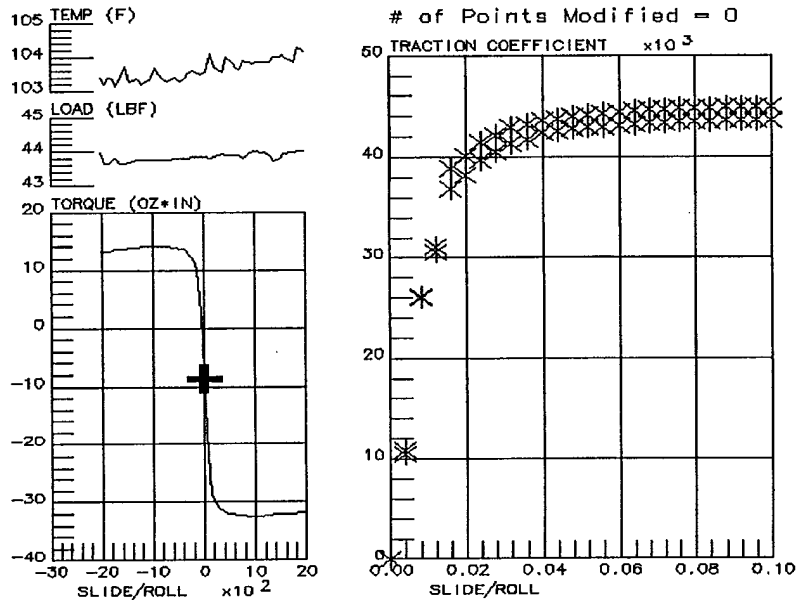


BB 89-105 Coray 100 new #36
100F 75LBF 283RPM 6 FILE: bb100a

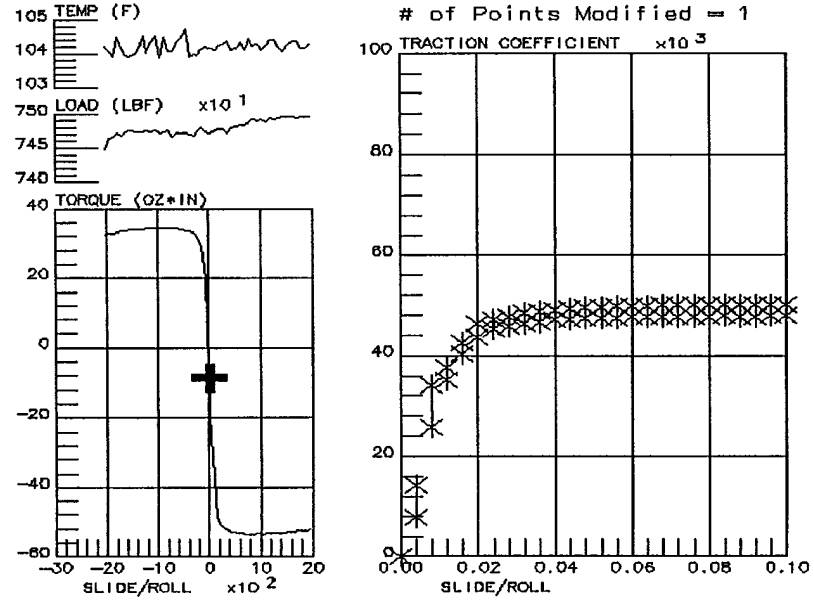



BB 89-105 Coray 100 new #37
100F 1LBF 1273RPM 1 FILE: bb100b
# of Points Modified = 1
TEMP (F)
LOAD (LBF) x10 2
TORQUE (OZ*IN) x10 2
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 4
SLIDE/ROLL
BB 89-105 Coray 100 new #38
100F 5LBF 1273RPM 2 FILE: bb100b
# of Points Modified = 0
TEMP (F)
LOAD (LBF) x10 2
TORQUE (OZ*IN) x10 2
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL
BB 89-105 Coray 100 new #39
100F 9LBF 1273RPM 3 FILE: bb100b
# of Points Modified = 0
TEMP (F)
LOAD (LBF) x10 2
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL
BB 89-105 Coray 100 new #40
100F 23LBF 1273RPM 4 FILE: bb100b
# of Points Modified = 0
TEMP (F)
LOAD (LBF)
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL

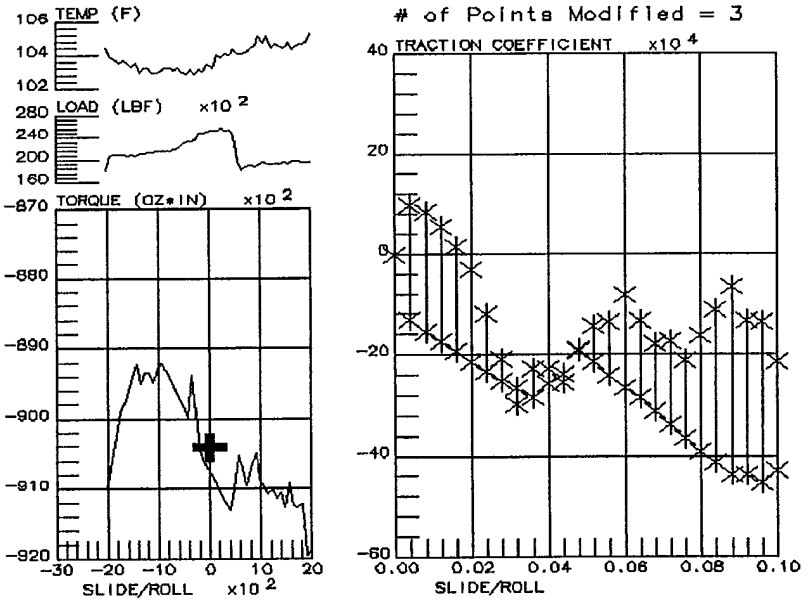
BB 89-105 Coray 100 new #41
100F 44LBF 1273RPM 5 FILE: bb100b



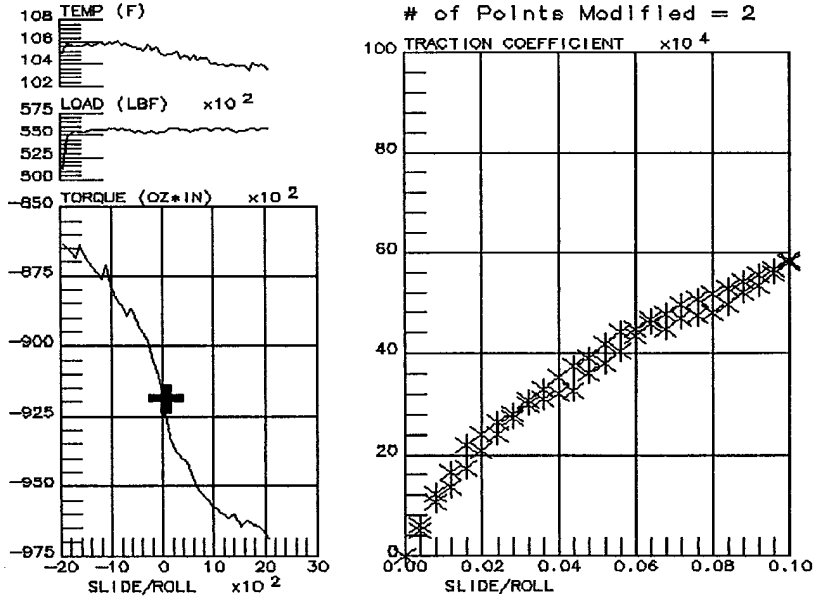
BB 89-105 Coray 100 new #42
100F 75LBF 1273RPM 6 FILE: bb100b



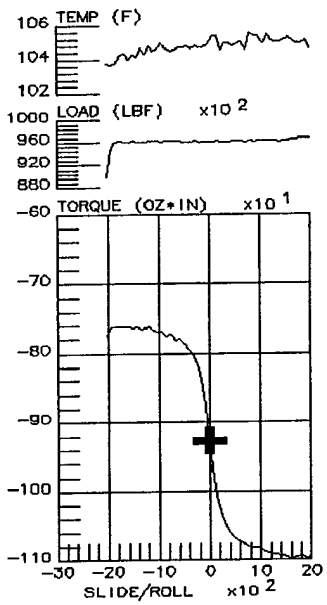
BB 89-105 Coray 100 new #43
100F 1LBF 2546RPM 1 FILE: bb100c



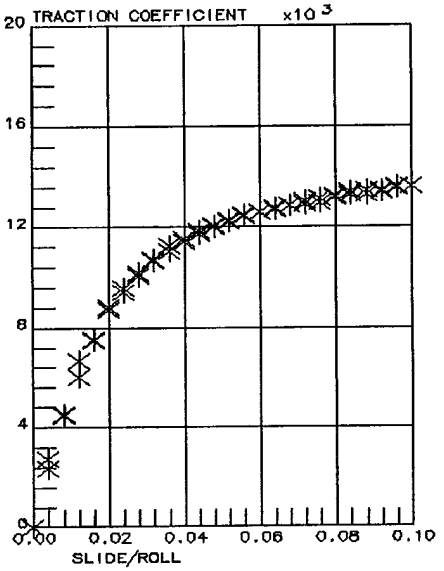
BB 89-105 Coray 100 new #44
100F 5LBF 2546RPM 2 FILE: bb100c



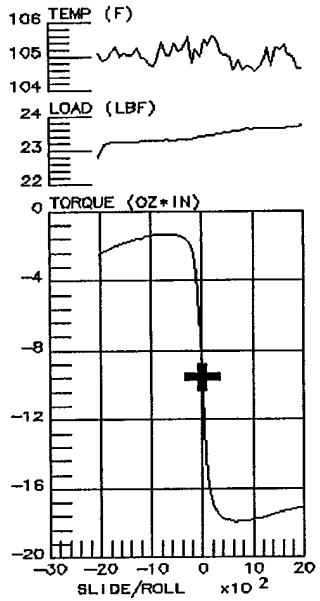
BB 89-105 Coray 100 new #45
100F 9LBF 2546RPM 3 FILE: bb100c



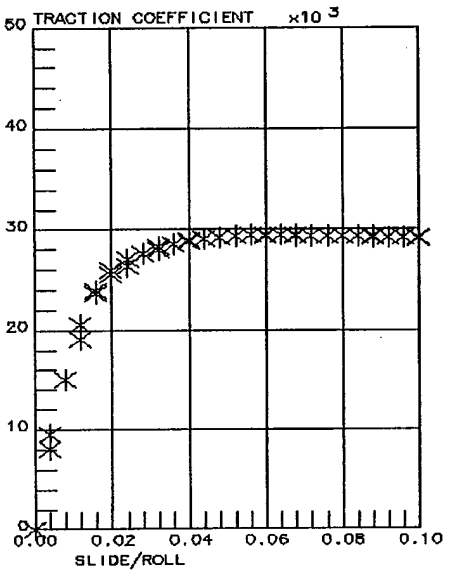
# of Points Modified = 0



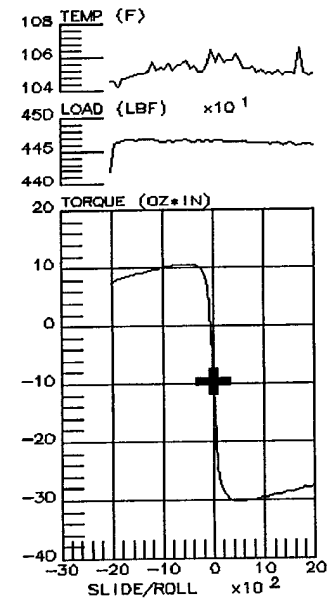
BB 89-105 Coray 100 new #46
100F 23LBF 2546RPM 4 FILE: bb100c



# of Points Modified = 2



BB 89-105 Coray 100 new #47
100F 44LBF 2546RPM 5 FILE: bb100c



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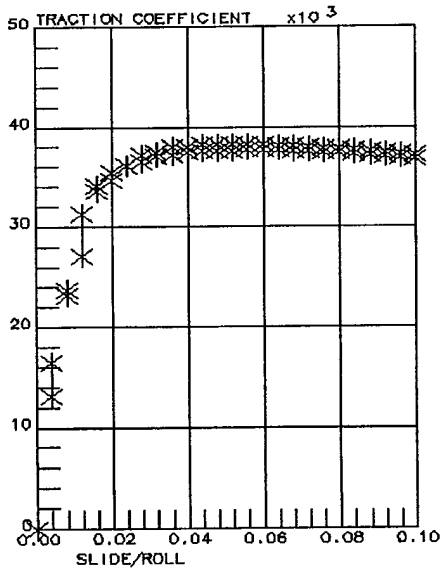
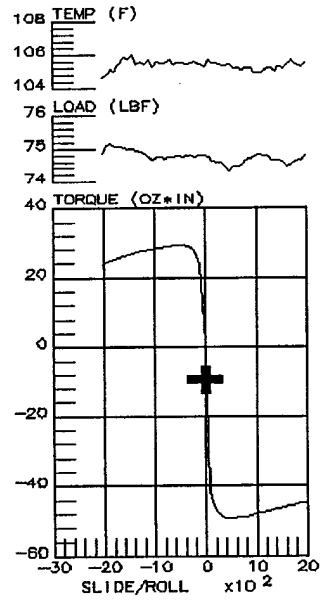


BB 89-105 Coray 100 new #48
100F 75LBF 2546RPM 6 FILE: bb100c



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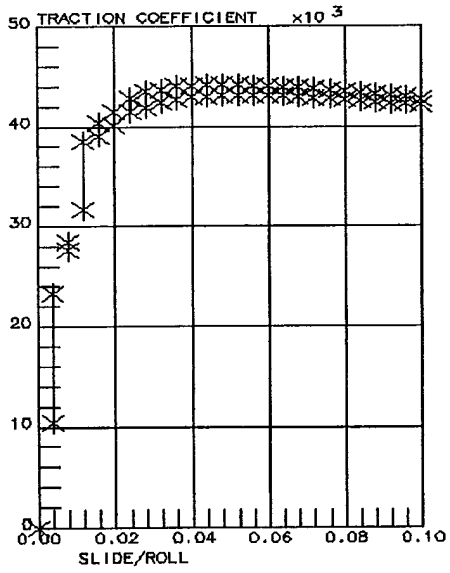
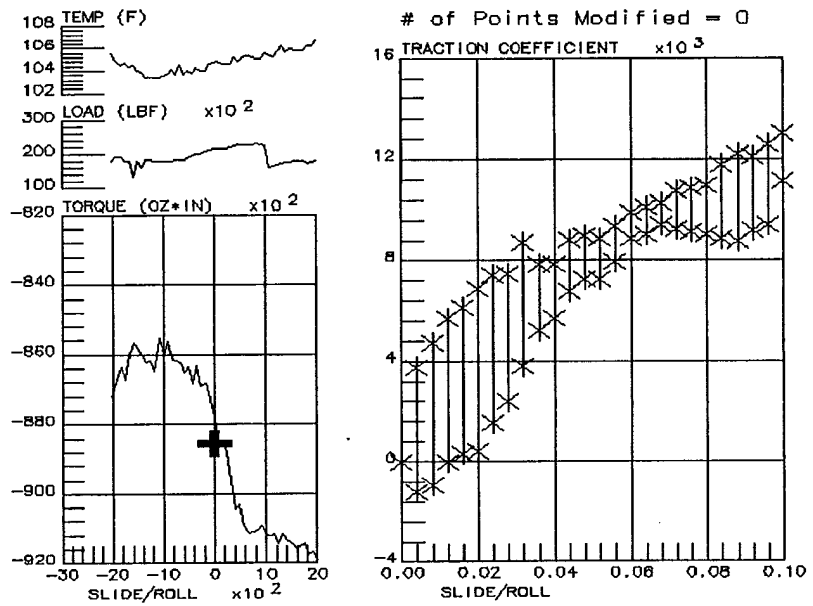
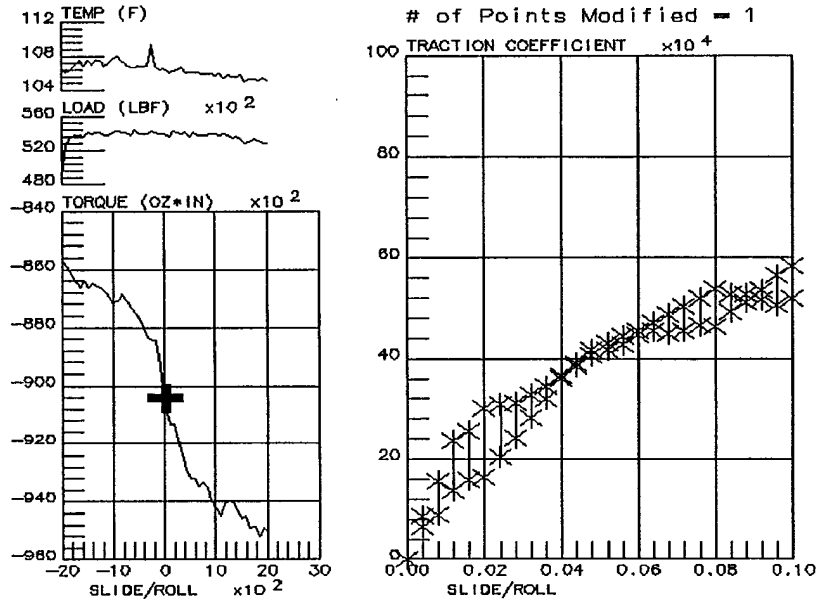


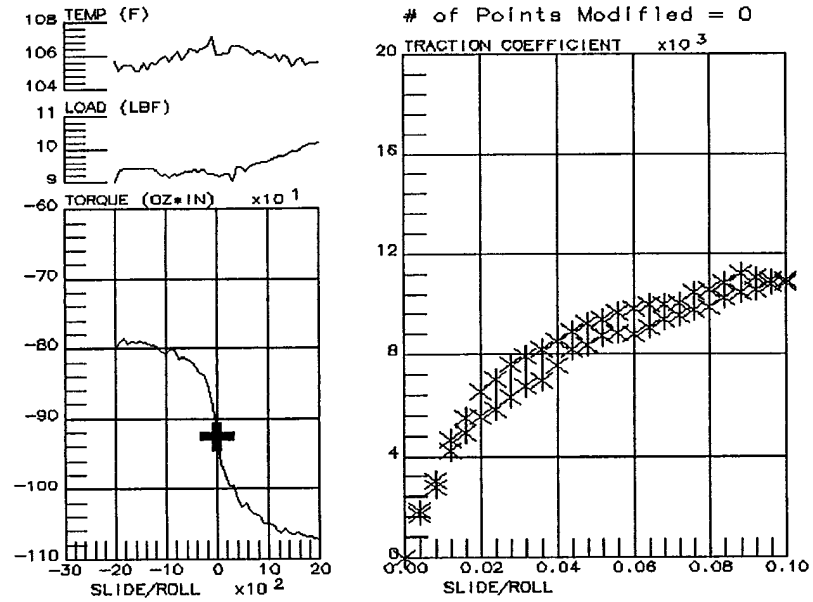
BB 89-105 Coray 100 new #49
100F 1LBF 3820RPM 1 FILE: bb100d



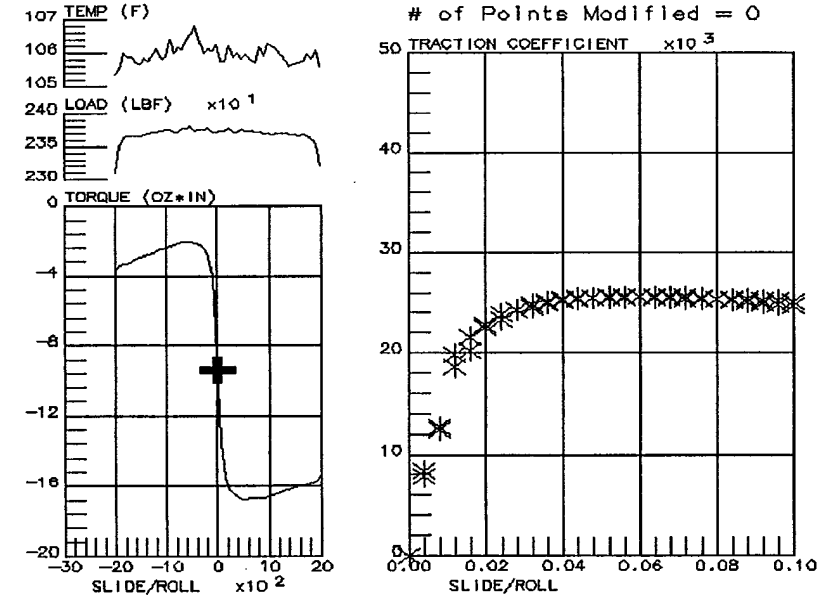
BB 89-105 Coray 100 new #50
100F 5LBF 3820RPM 2 FILE: bb100d



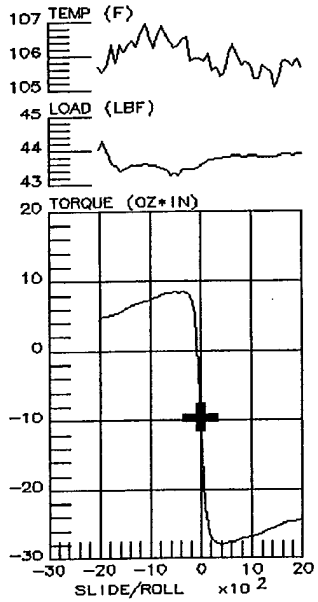
BB 89-105 Coray 100 new #51
100F 9LBF 3820RPM 3 FILE: bb100d



BB 89-105 Coray 100 new #52
100F 23LBF 3820RPM 4 FILE: bb100d



BB 89-105 Coray 100 new #53
100F 44LBF 3820RPM 5 FILE: bb100d



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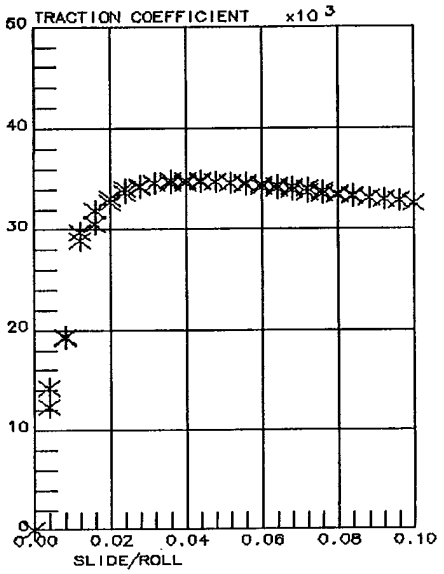
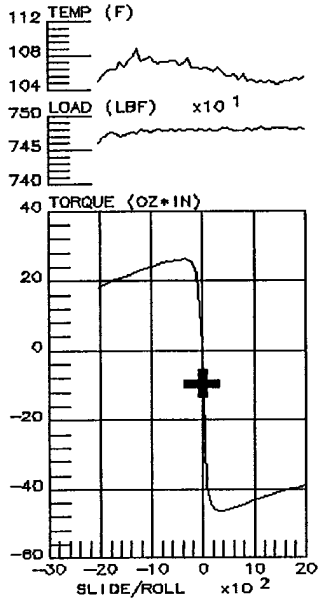


BB 89-105 Coray 100 new #54
100F 75LBF 3820RPM 6 FILE: bb100d



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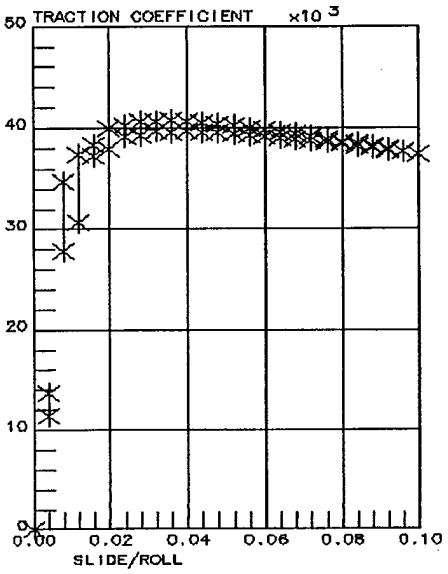
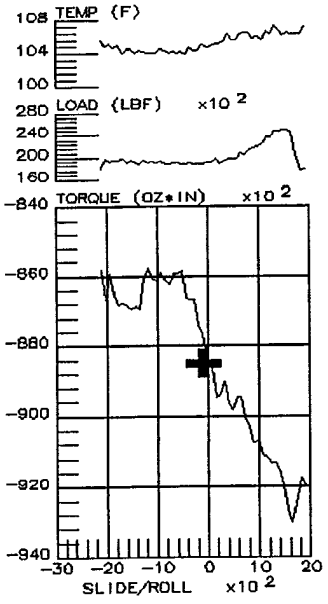


BB 89-105 Coray 100 new #55
100F 1LBF 5093RPM 1 FILE: bb100e



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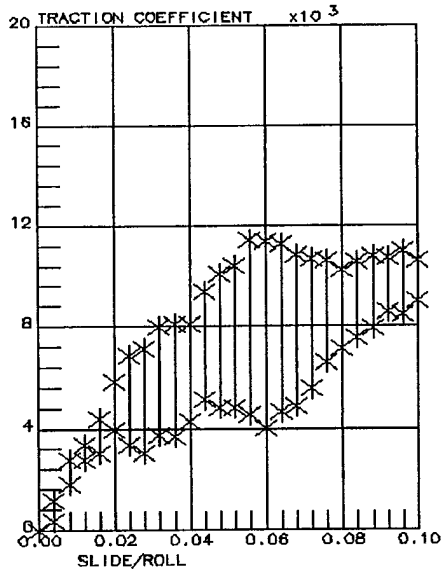
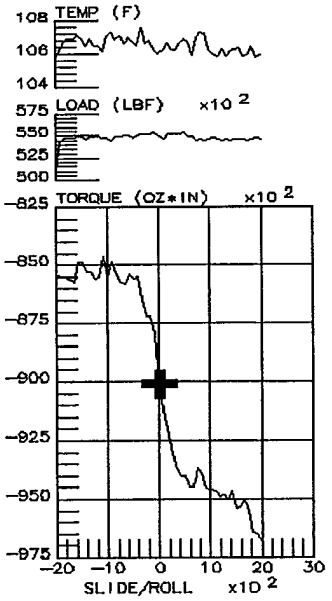


BB 89-105 Coray 100 new #56
100F 5LBF 5093RPM 2 FILE: bb100e



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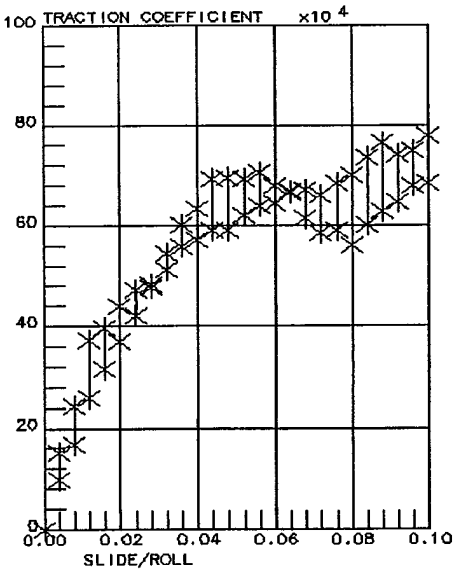
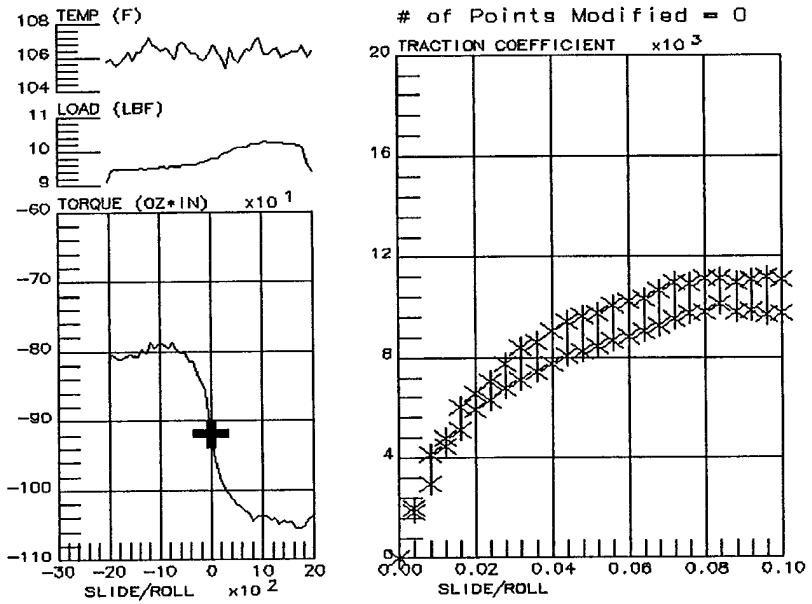
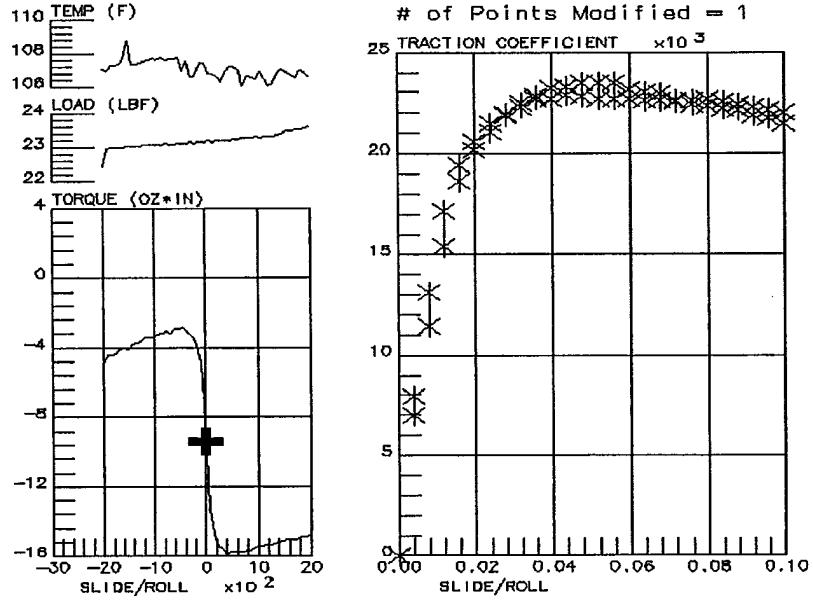


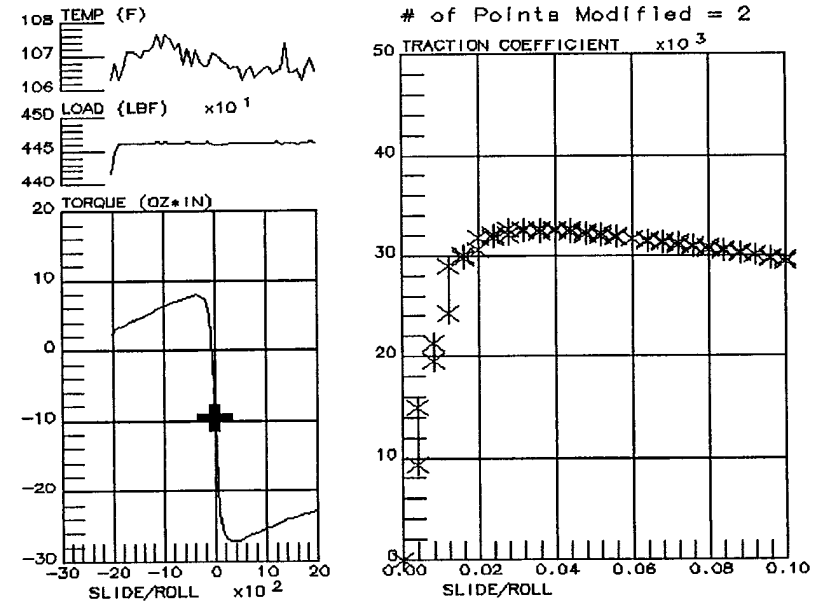
BB 89-105 Coray 100 new #57
100F 9LBF 5093RPM 3 FILE: bb100e



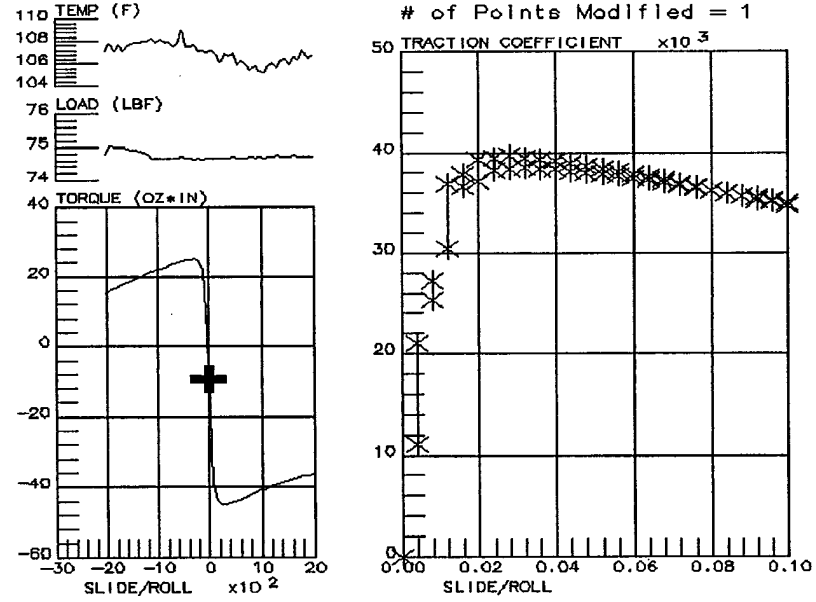
BB 89-105 Coray 100 new #58
100F 23LBF 5093RPM 4 FILE: bb100e



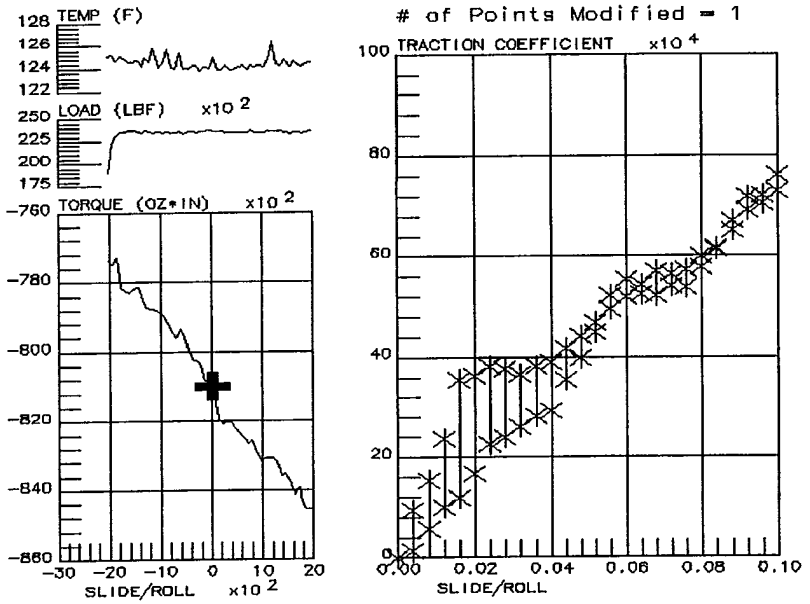
BB 89-105 Coray 100 new #59
100F 44LBF 5093RPM 5 FILE: bb100e



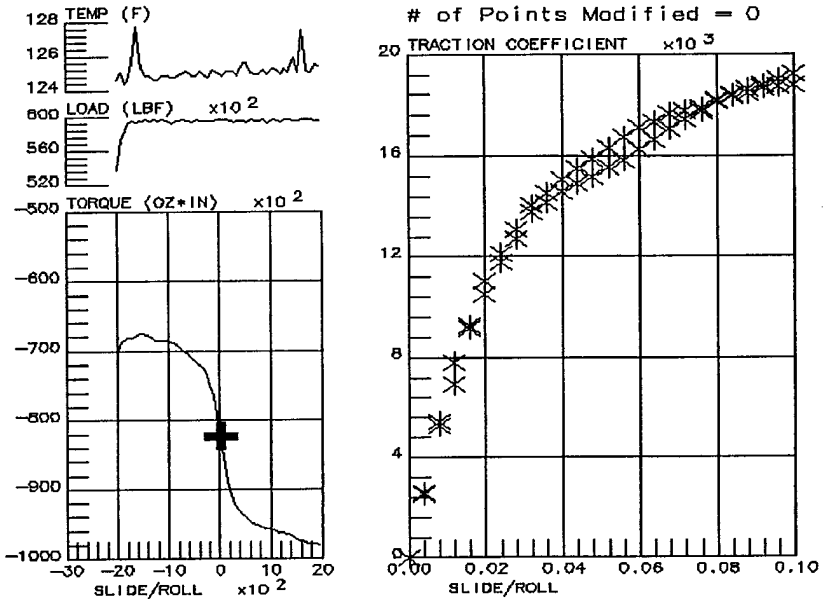
BB 89-105 Coray 100 new #60
100F 75LBF 5093RPM 6 FILE: bb100e



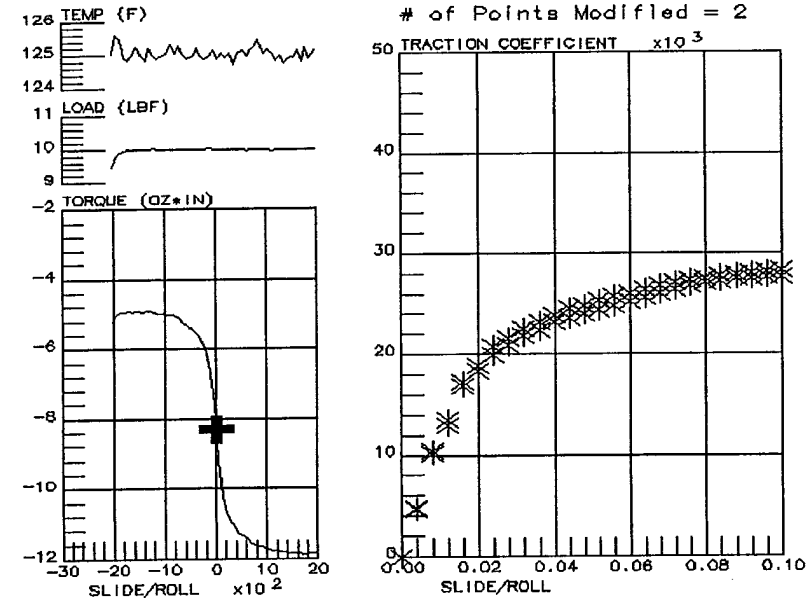
BB 89-105 Coray 100 new #61
120F 1LBF 1273RPM 1 FILE: bb120b



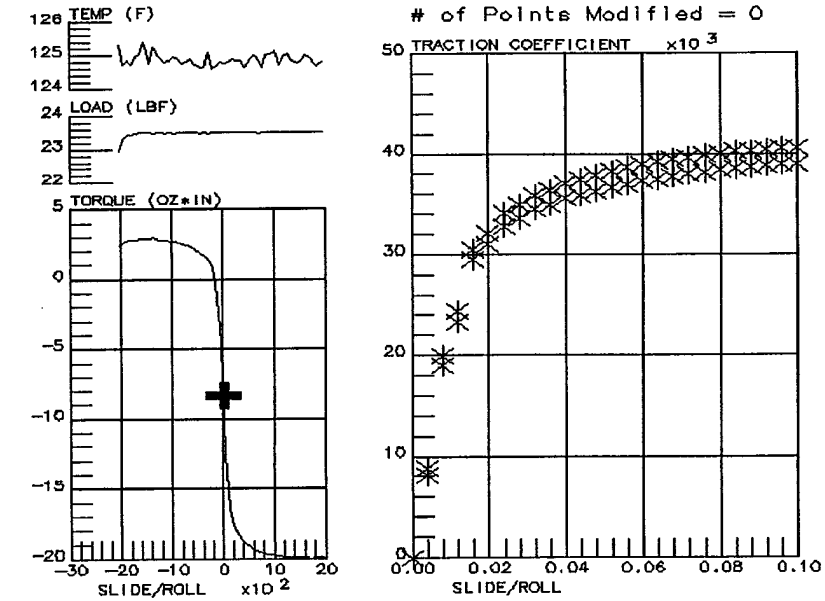
BB 89-105 Coray 100 new #62
120F 5LBF 1273RPM 2 FILE: bb120b



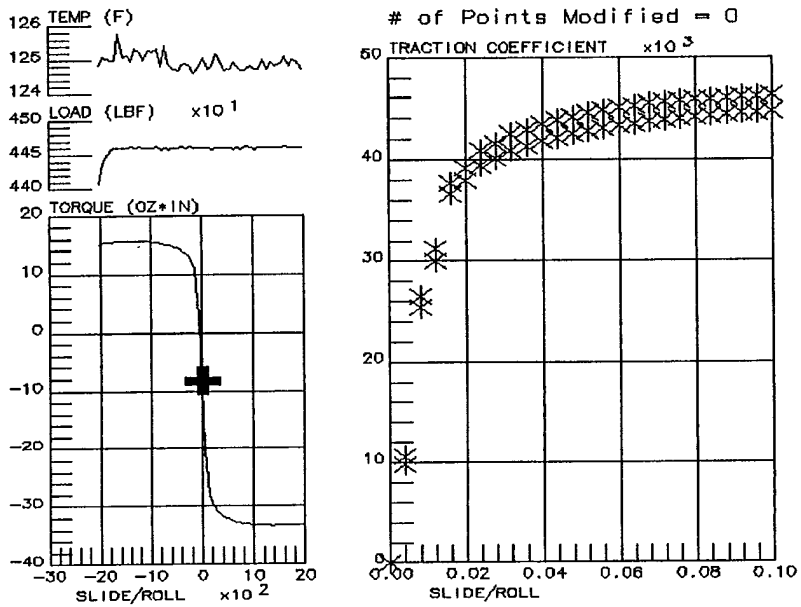
BB 89-105 Coray 100 new #63
120F 9LBF 1273RPM 3 FILE: bb120b



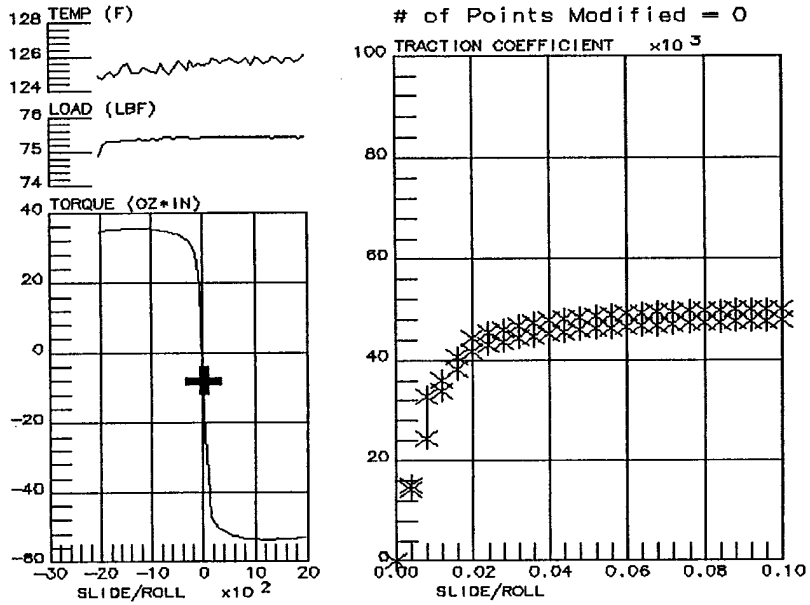
BB 89-105 Coray 100 new #64
120F 23LBF 1273RPM 4 FILE: bb120b



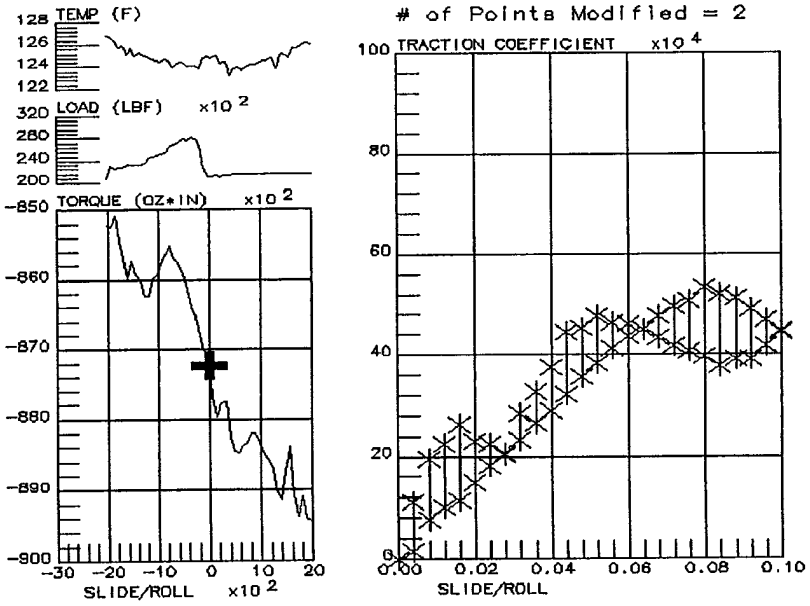
BB 89-105 Coray 100 new #65
120F 44LBF 1273RPM 5 FILE: bb120b



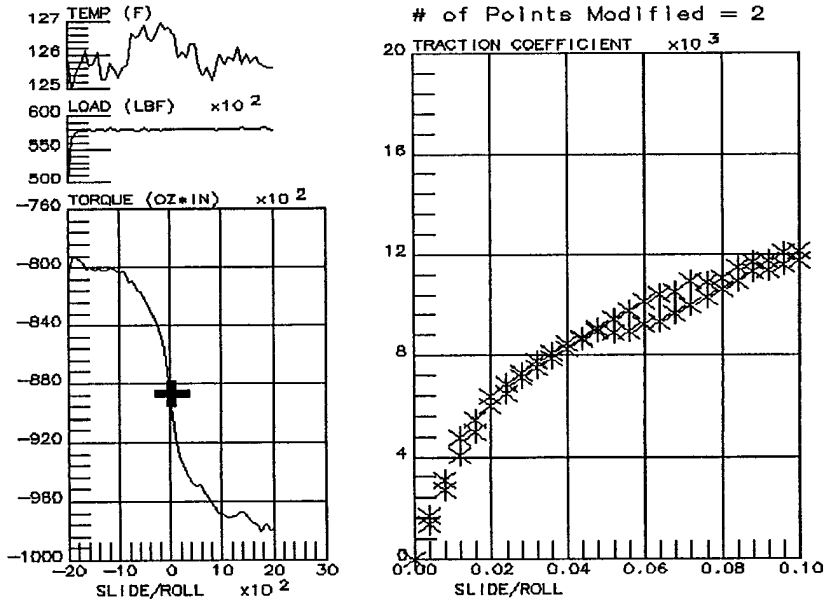
BB 89-105 Coray 100 new #66
120F 75LBF 1273RPM 6 FILE: bb120b



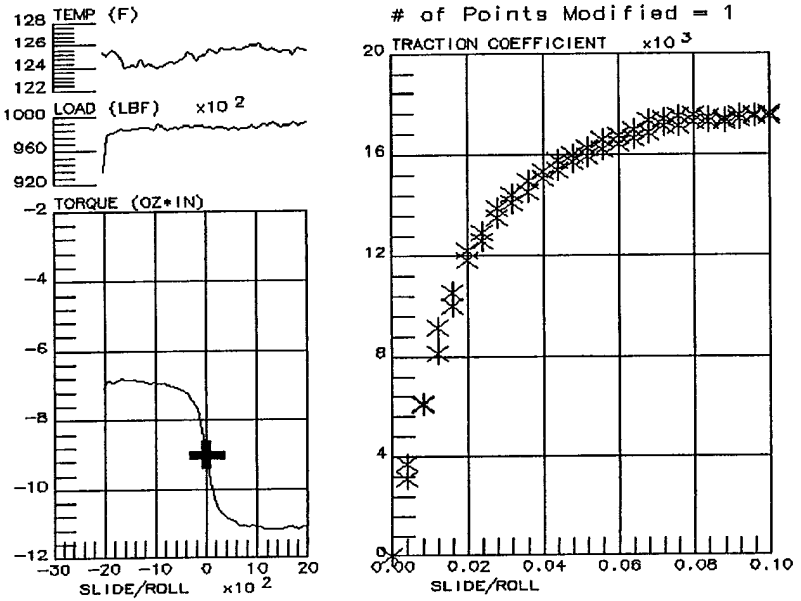
BB 89-105 Coray 100 new #67
120F 1LBF 2546RPM 1 FILE: bb120c



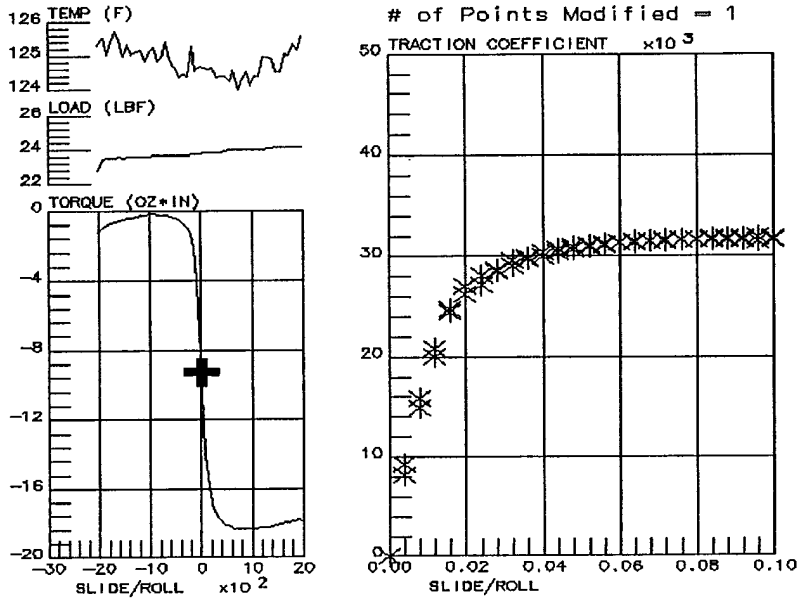
BB 89-105 Coray 100 new #68
120F 5LBF 2546RPM 2 FILE: bb120c



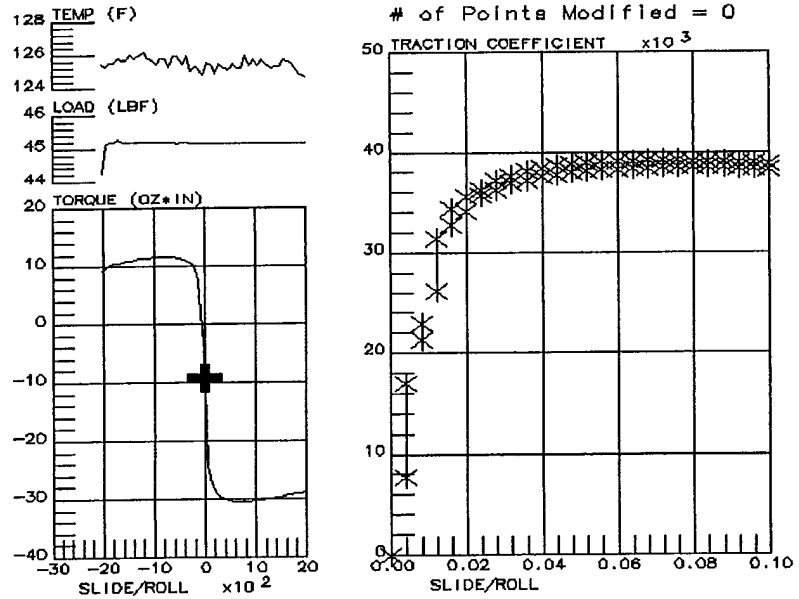
BB 89-105 Coray 100 new #69
120F 9LBF 2546RPM 3 FILE: bb120c



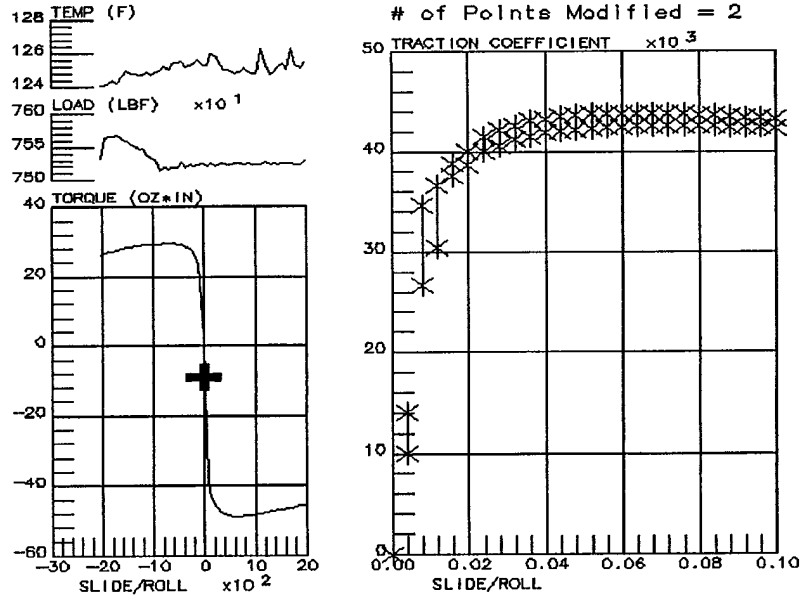
BB 89-105 Coray 100 new #70
120F 23LBF 2546RPM 4 FILE: bb120c



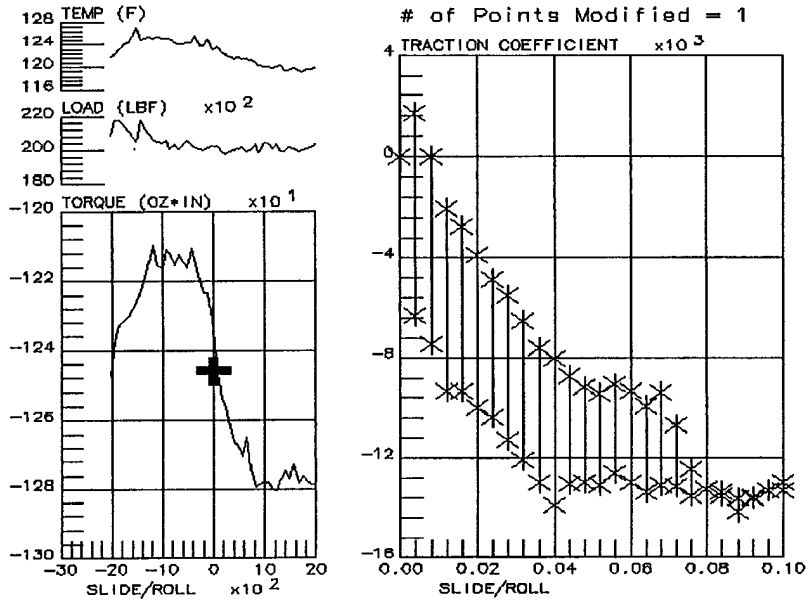
BB 89-105 Coray 100 new #71
120F 44LBF 2546RPM 5 FILE: bb120c



BB 89-105 Coray 100 new #72
120F 75LBF 2546RPM 6 FILE: bb120c



BB 89-105 Coray 100 new #73
120F 1LBF 3820RPM 1 FILE: bb120d



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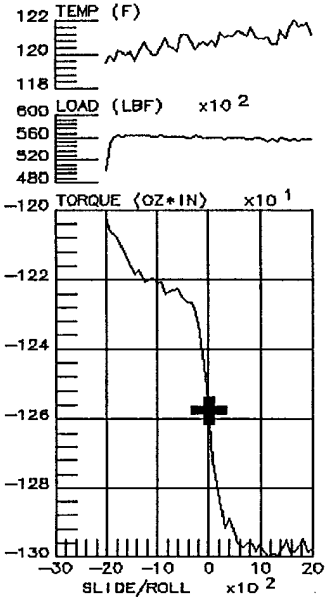
BB 89-105 Coray 100 new #74
120F 5LBF 3820RPM 2 FILE: bb120d



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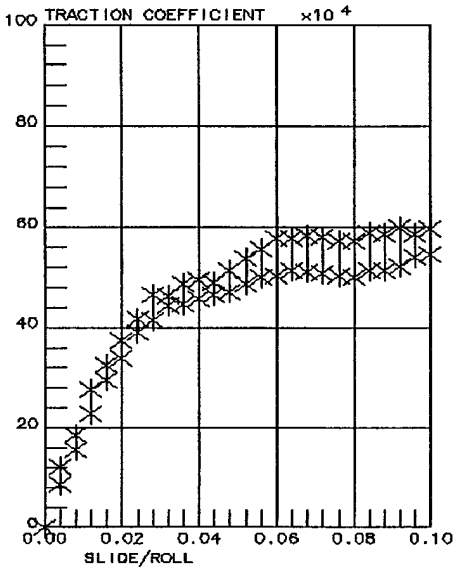
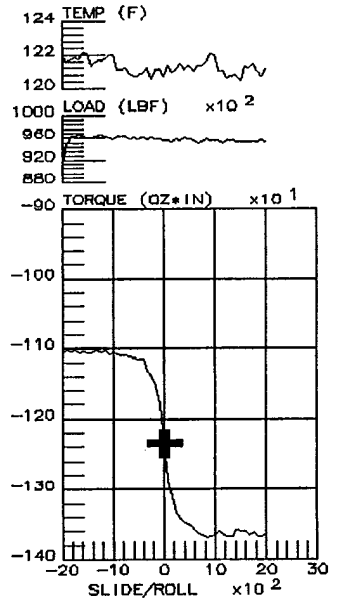


BB 89-105 Coray 100 new #75
120F 9LBF 3820RPM 3 FILE: bb120d



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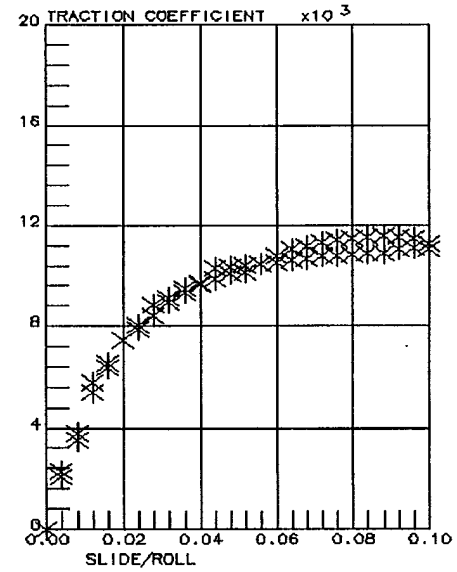
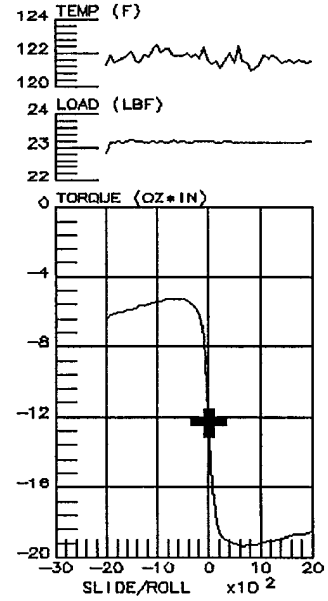


BB 89-105 Coray 100 new #76
120F 23LBF 3820RPM 4 FILE: bb120d



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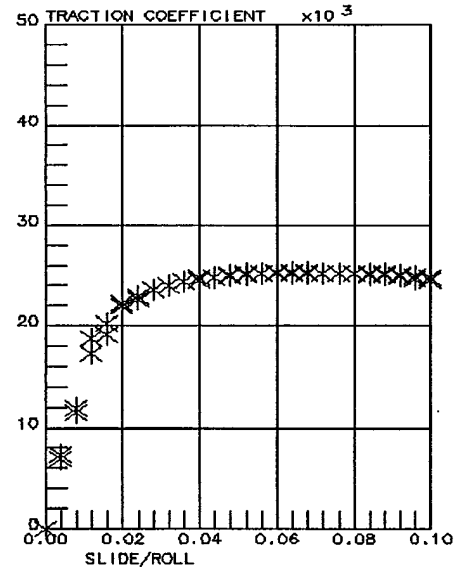
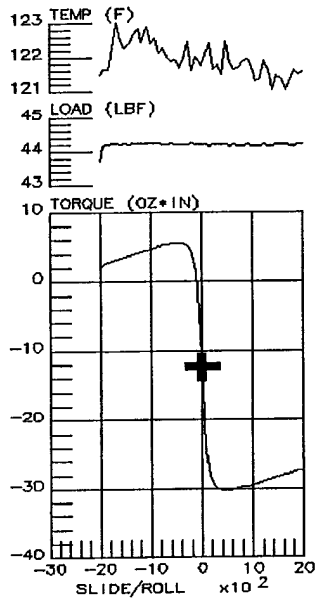


BB 89-105 Coray 100 new #77
120F 44LBF 3820RPM 5 FILE: bb120d



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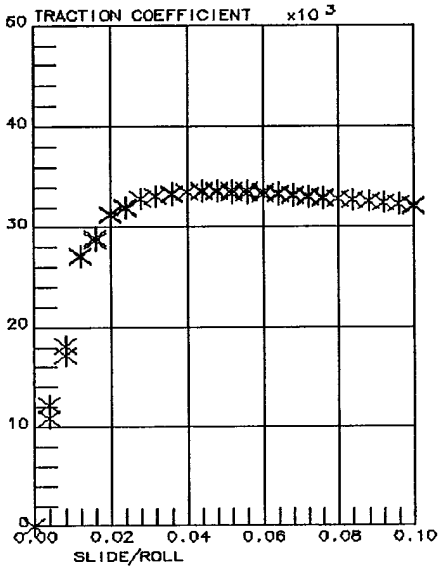
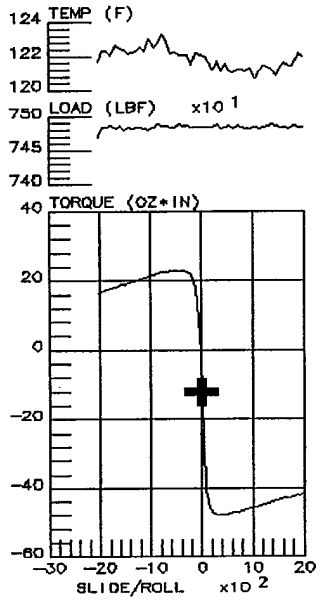


BB 89-105 Coray 100 new #78
120F 75LBF 3820RPM 6 FILE: bb120d



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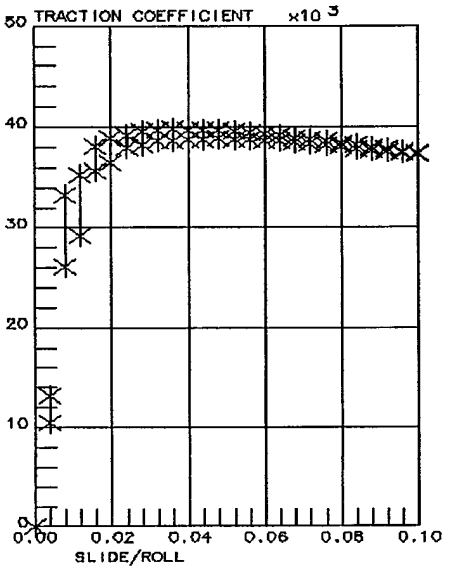
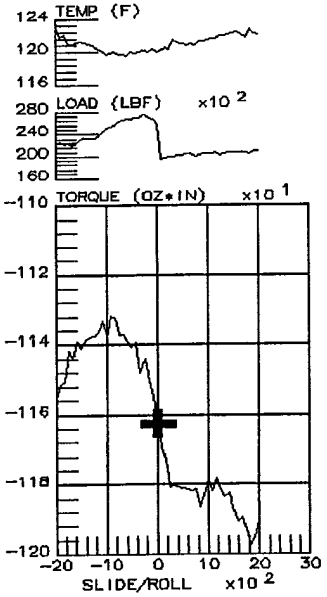


BB 89-105 Coray 100 new #79
120F 1LBF 5093RPM 1 FILE: bb120e



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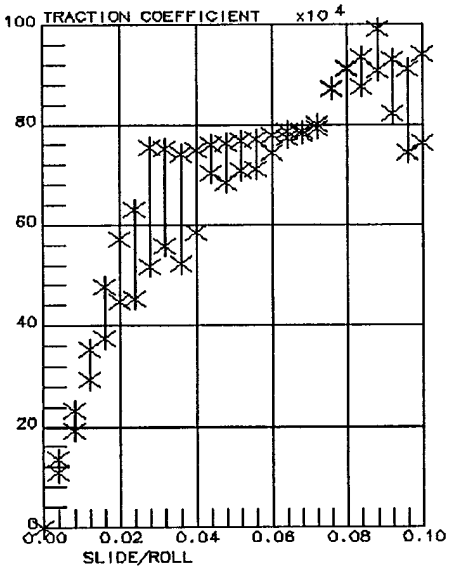
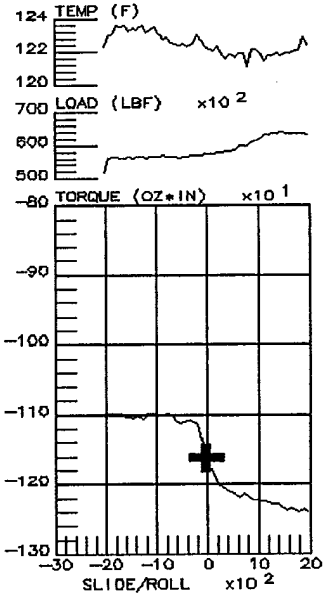


BB 89-105 Coray 100 new #80
120F 5LBF 5093RPM 2 FILE: bb120e



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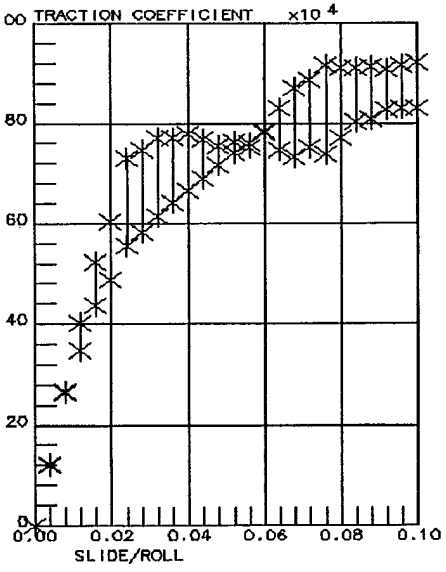
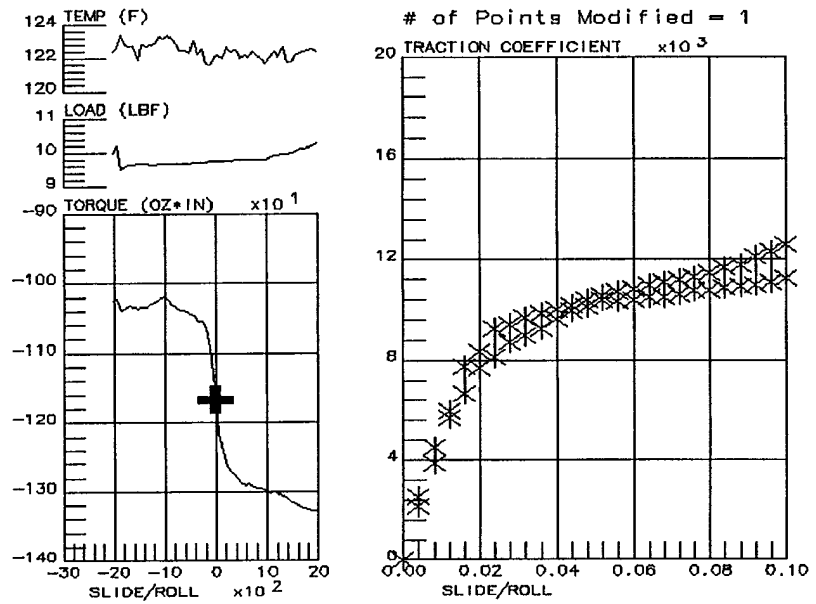
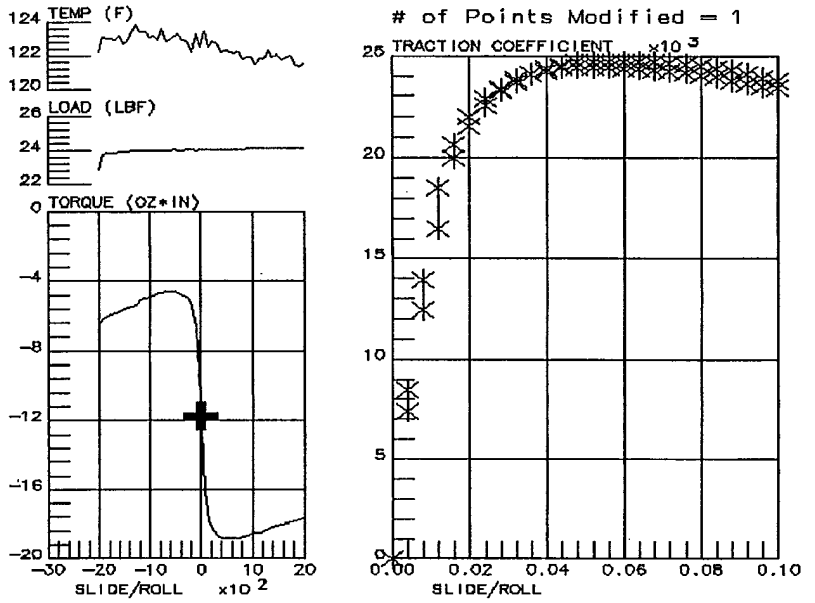


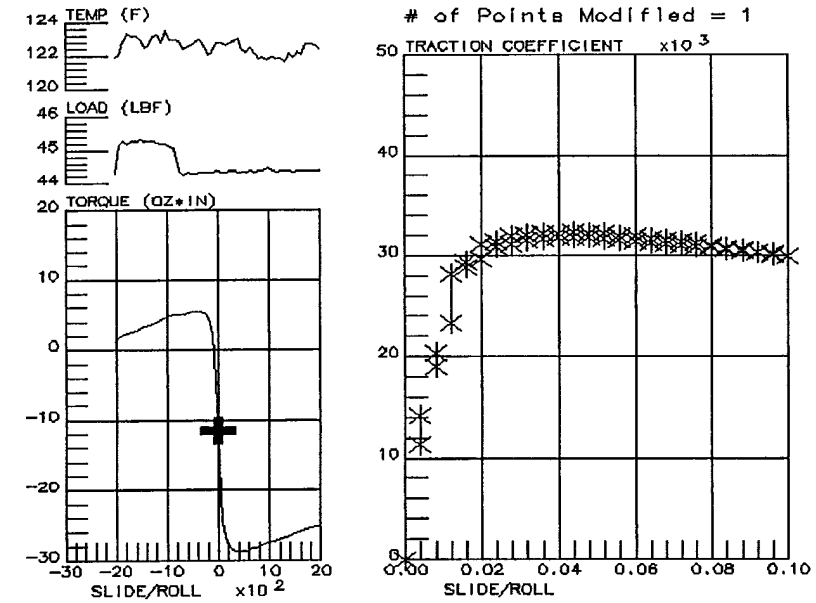
BB 89-105 Coray 100 new #81
120F 9LBF 5093RPM 3 FILE: bb120e



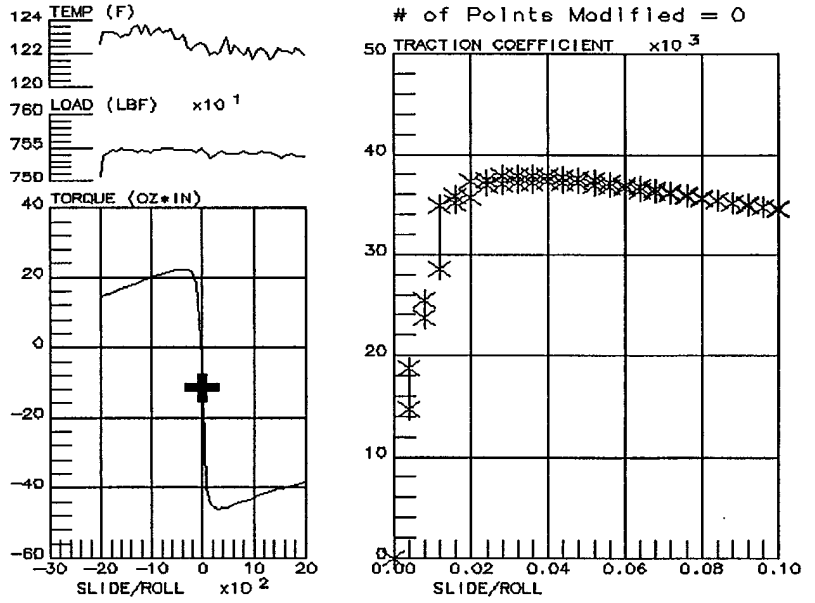
BB 89-105 Coray 100 new #82
120F 23LBF 5093RPM 4 FILE: bb120e



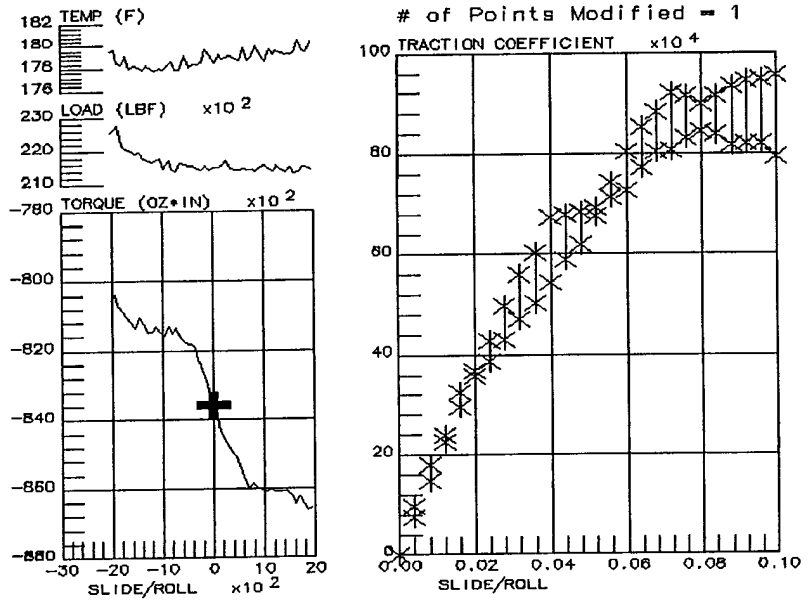
BB 89-105 Coray 100 new #83
120F 44LBF 5093RPM 5 FILE: bb120e



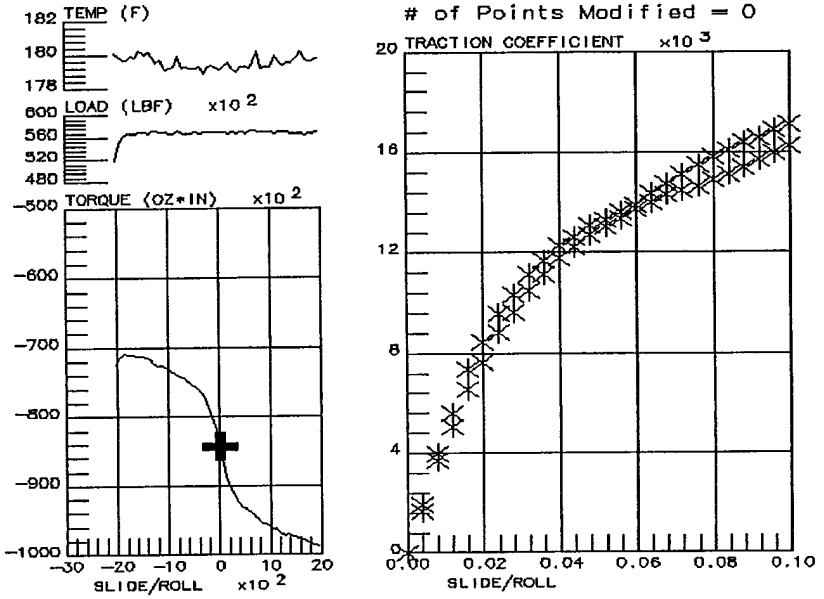
BB 89-105 Coray 100 new #84
120F 75LBF 5093RPM 6 FILE: bb120e



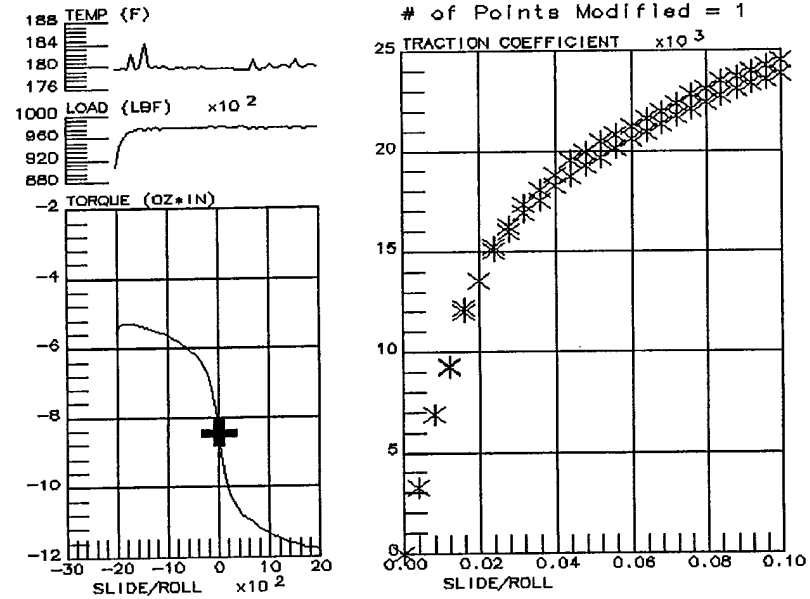
BB 89-105 Coray 100 new #85
180F 1LBF 1273RPM 1 FILE: bb180b



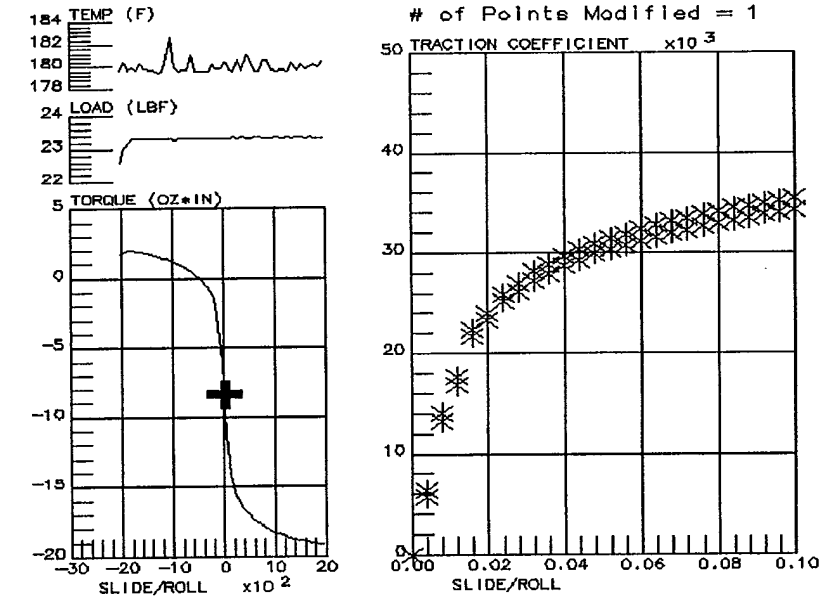
BB 89-105 Coray 100 new #86
180F 5LBF 1273RPM 2 FILE: bb180b



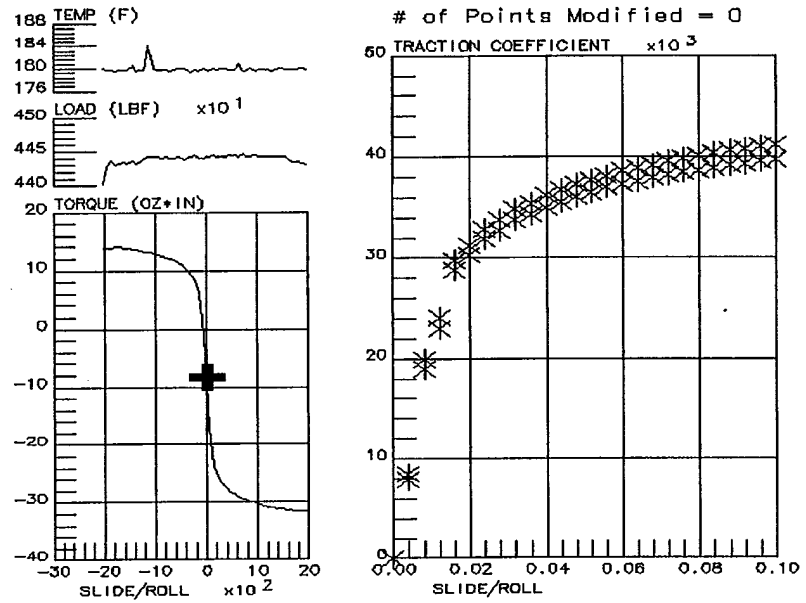
BB 89-105 Coray 100 new #87
180F 9LBF 1273RPM 3 FILE: bb180b



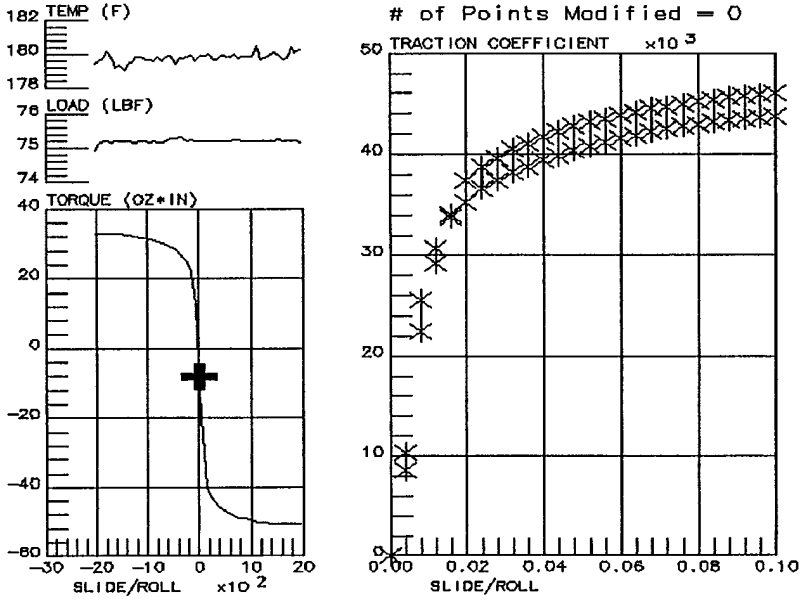
BB 89-105 Coray 100 new #88
180F 23LBF 1273RPM 4 FILE: bb180b



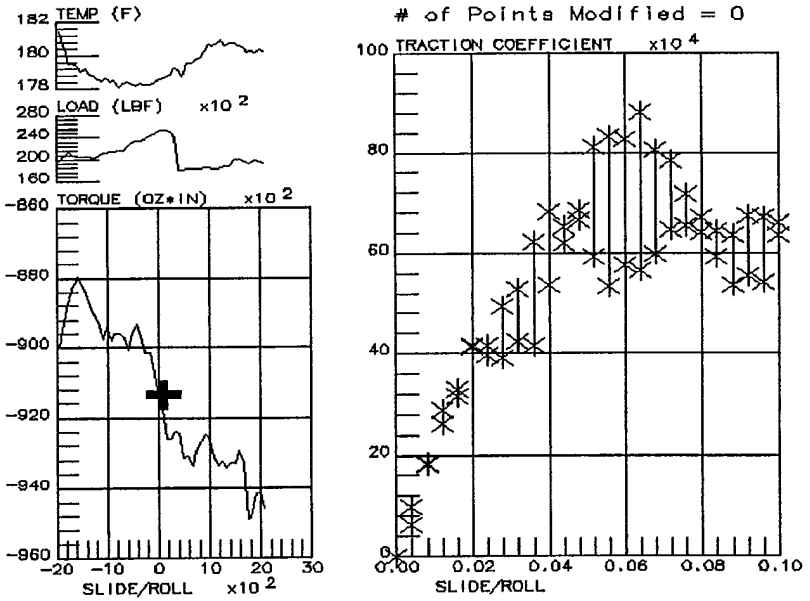
BB 89-105 Coray 100 new #89
180F 44LBF 1273RPM 5 FILE: bb180b



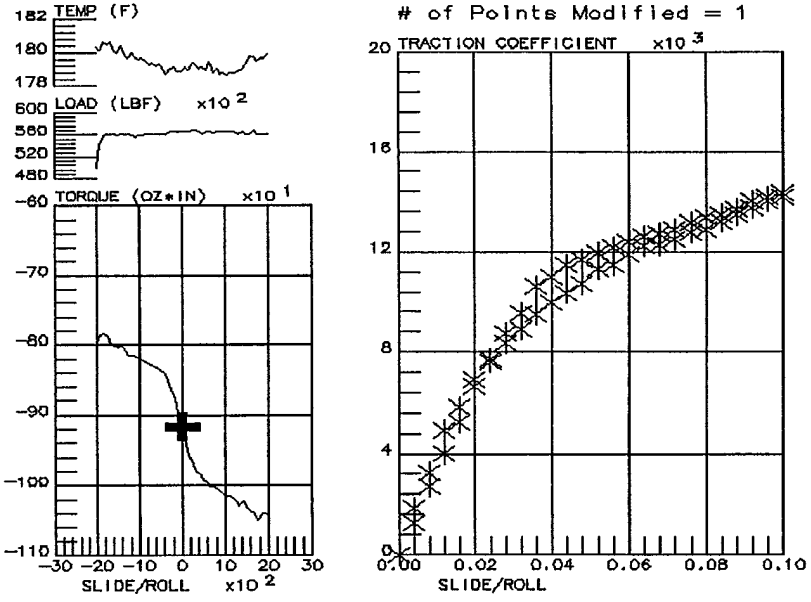
BB 89-105 Coray 100 new #90
180F 75LBF 1273RPM 6 FILE: bb180b



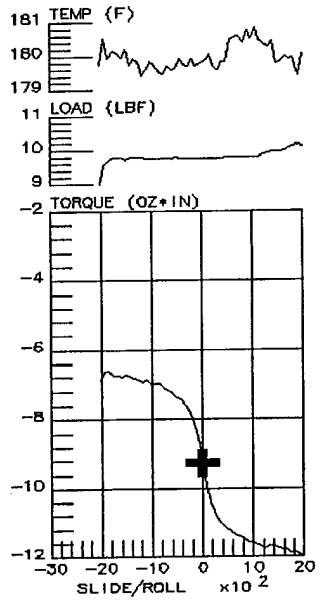
BB 89-105 Coray 100 new #91
180F 1LBF 2546RPM 1 FILE: bb180c



BB 89-105 Coray 100 new #92
180F 5LBF 2546RPM 2 FILE: bb180c



BB 89-105 Coray 100 new #93
180F 9LBF 2546RPM 3 FILE: bb180c



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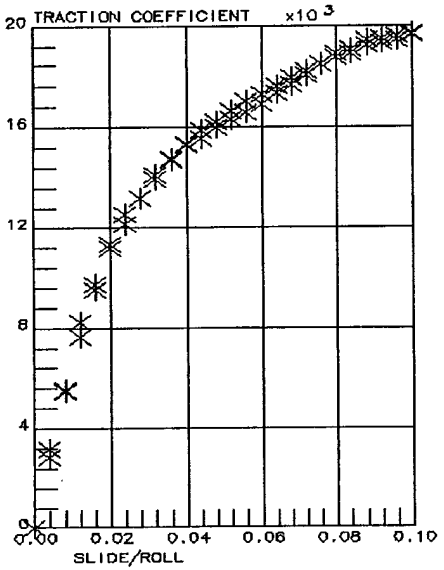
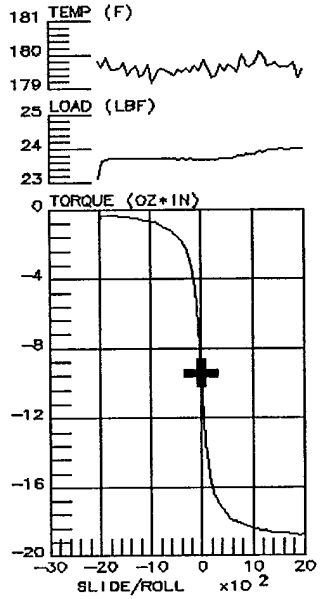


BB 89-105 Coray 100 new #94
180F 23LBF 2546RPM 4 FILE: bb180c



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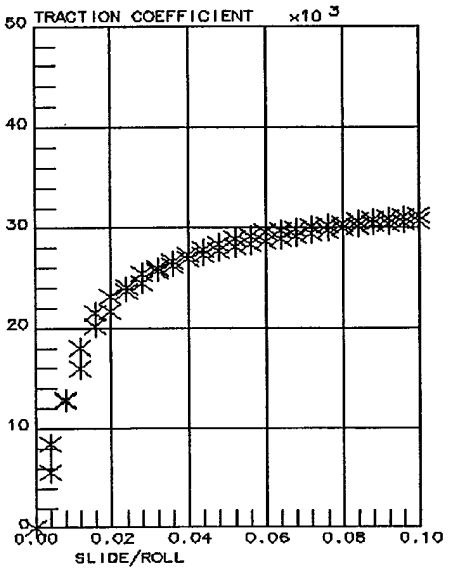
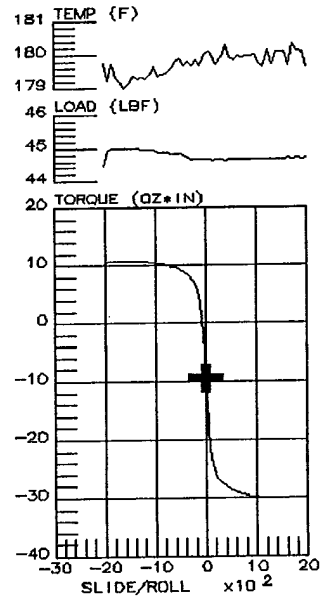


BB 89-105 Coray 100 new #95
180F 44LBF 2546RPM 5 FILE: bb180c



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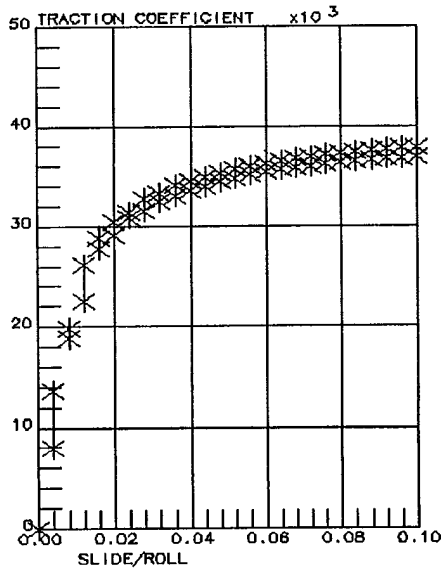
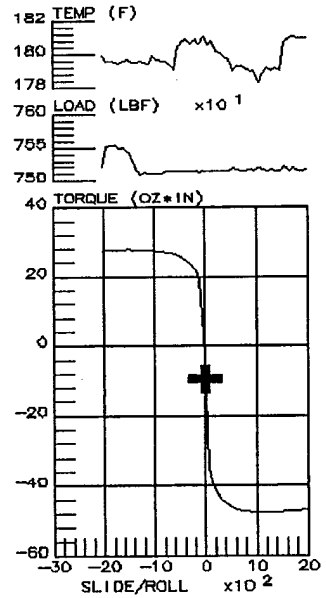


BB 89-105 Coray 100 new #96
180F 75LBF 2546RPM 6 FILE: bb180c



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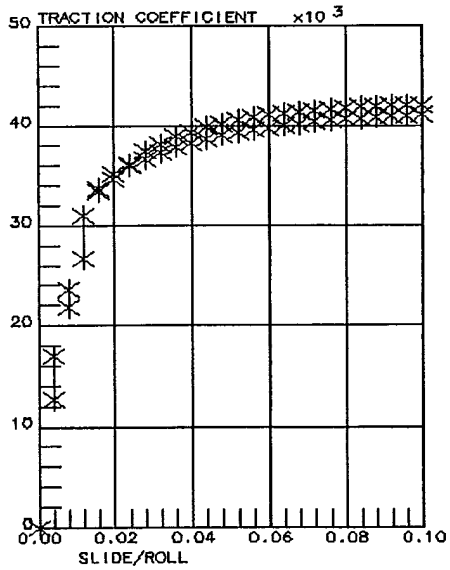
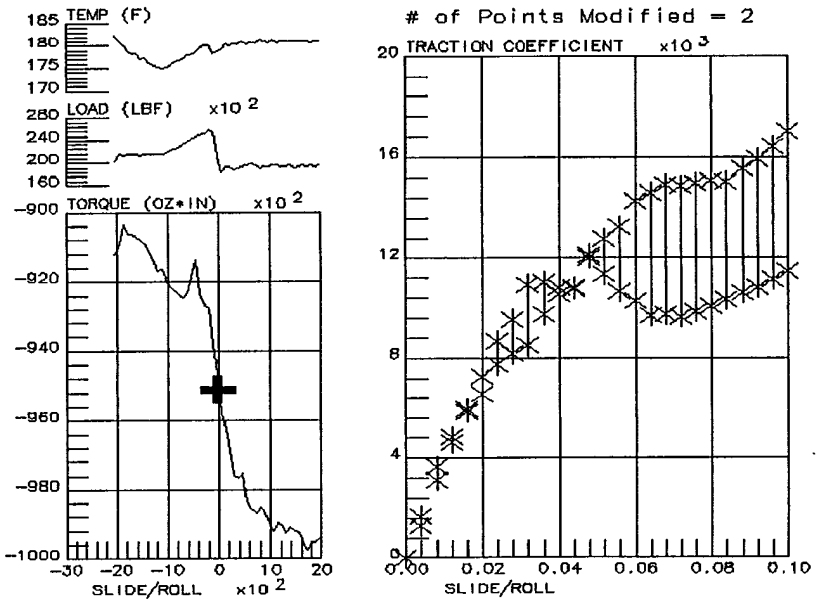
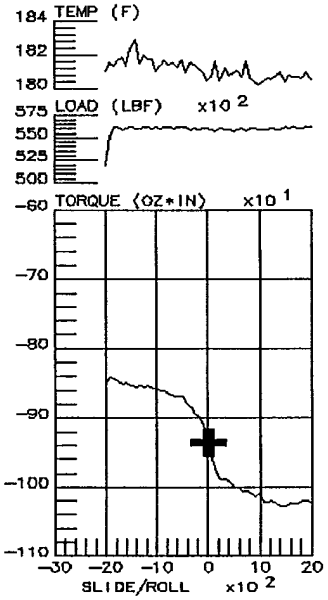
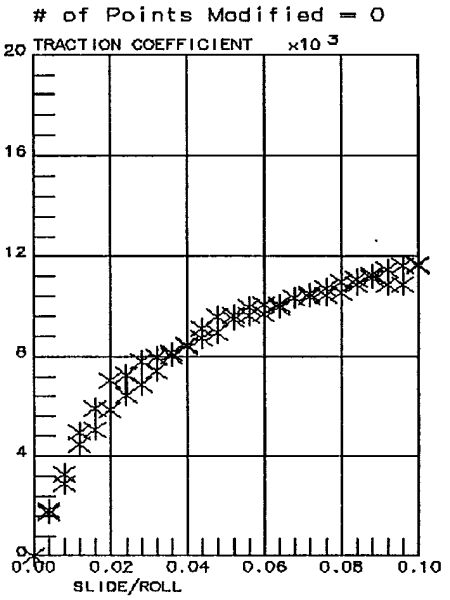


BB 89-105 Coray 100 new #97
180F 1LBF 3820RPM 1 FILE: bb180d

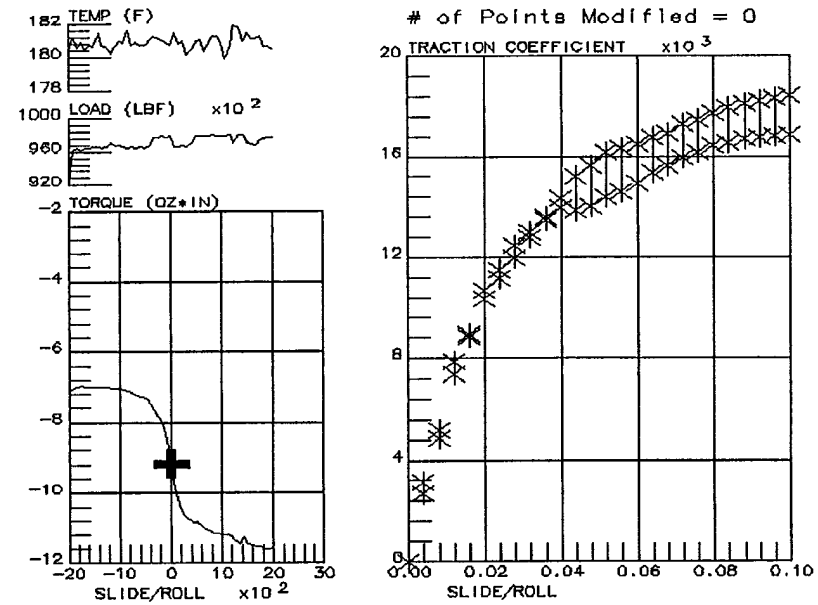


BB 89-105 Coray 100 new #98
180F 5LBF 3820RPM 2 FILE: bb180d

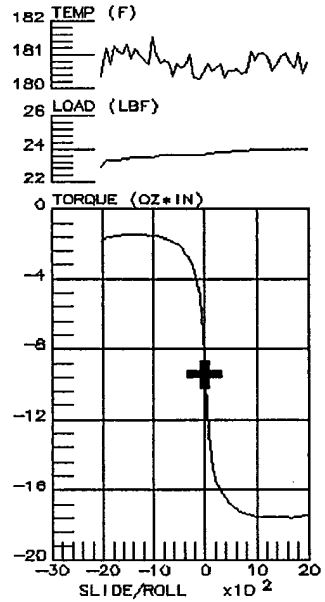


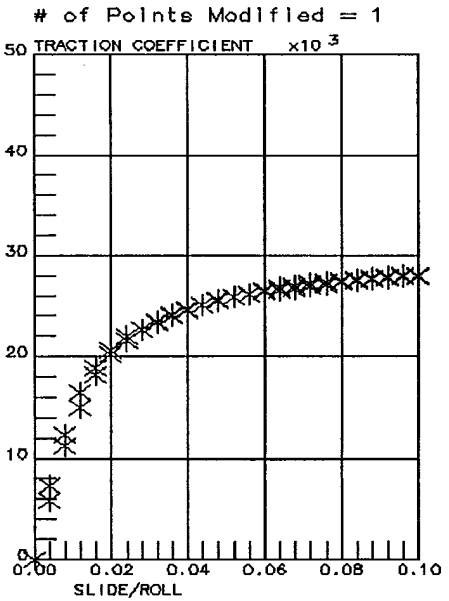


BB 89-105 Coray 100 new #99
180F 9LBF 3820RPM 3 FILE: bb180d

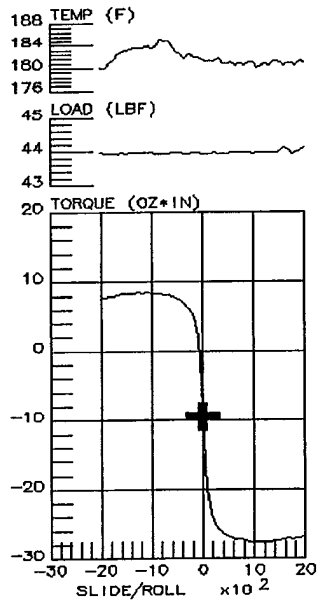


BB 89-105 Coray 100 new #100
180F 23LBF 3820RPM 4 FILE: bb180d





BB 89-105 Coray 100 new #101
180F 44LBF 3820RPM 5 FILE: bb180d



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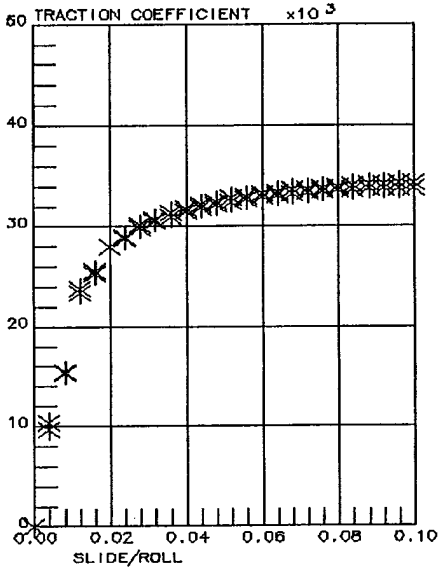
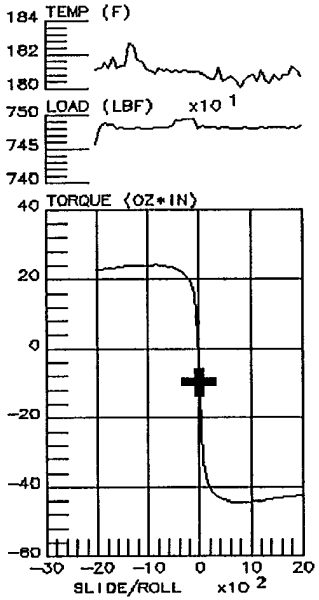


BB 89-105 Coray 100 new #102
180F 75LBF 3820RPM 6 FILE: bb180d



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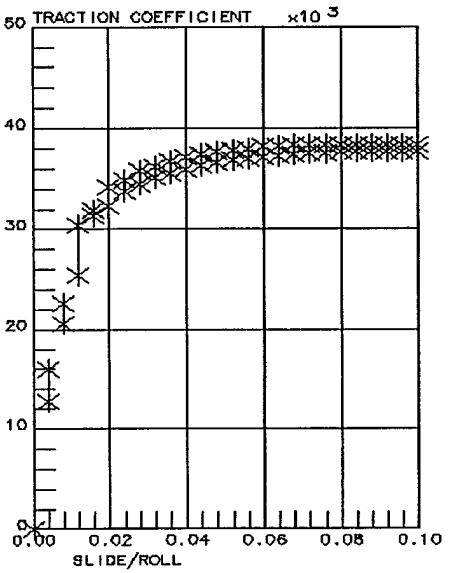
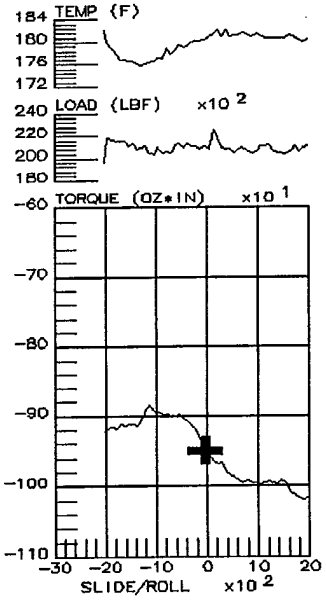


BB 89-105 Coray 100 new #103
180F 1LBF 5093RPM 1 FILE: bb180e



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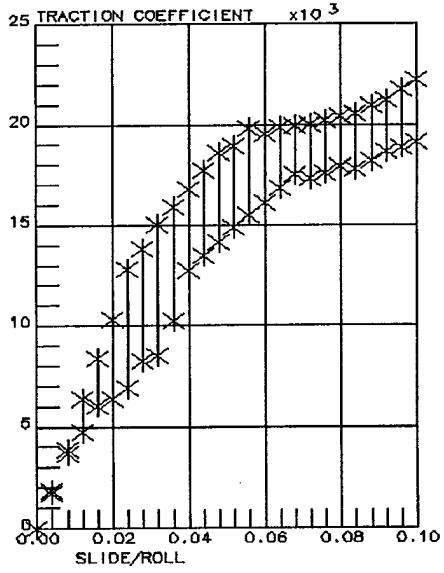
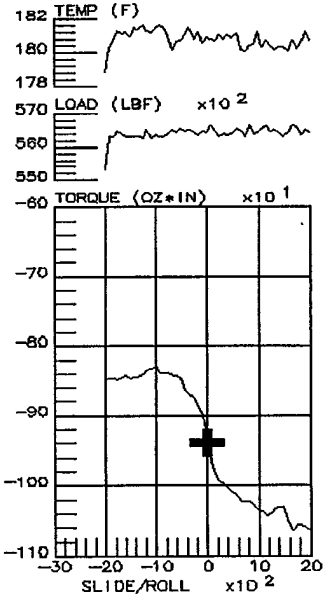


BB 89-105 Coray 100 new #104
180F 5LBF 5093RPM 2 FILE: bb180e



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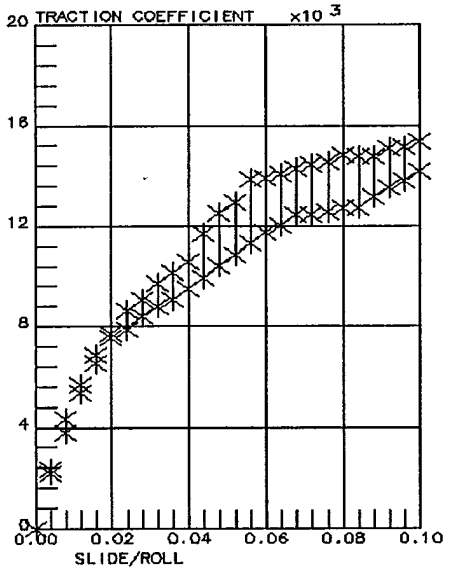
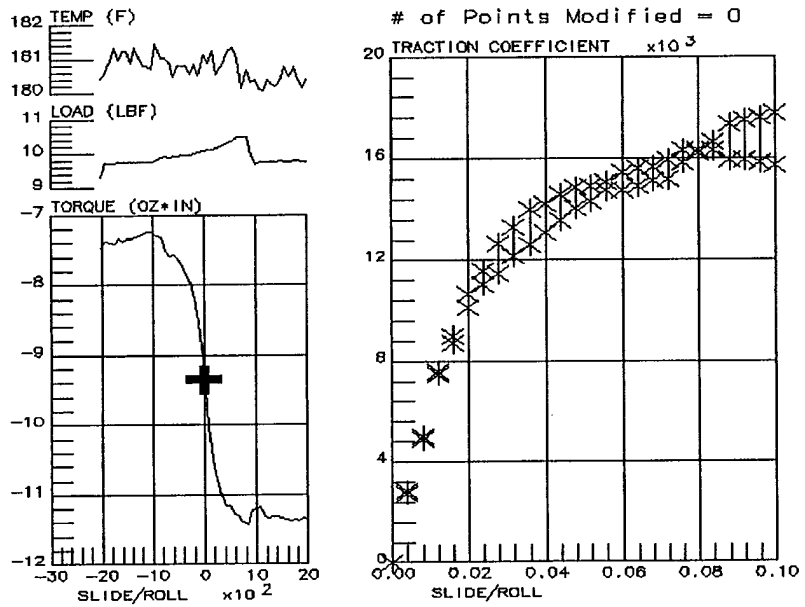
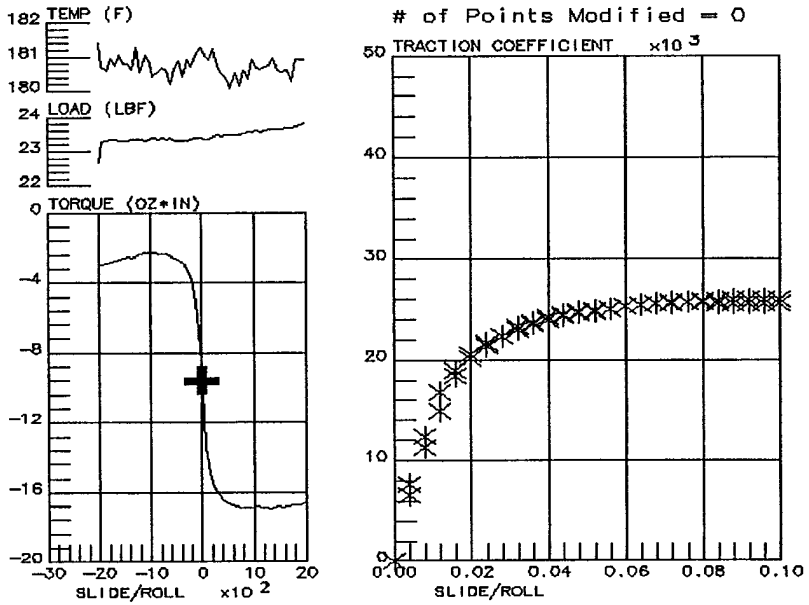


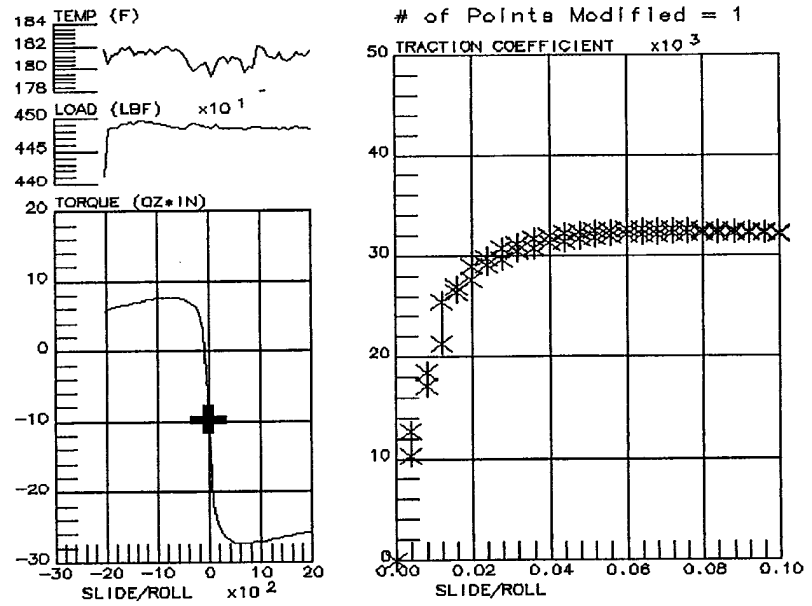
BB 89-105 Coray 100 new #105
180F 9LBF 5093RPM 3 FILE: bb180e



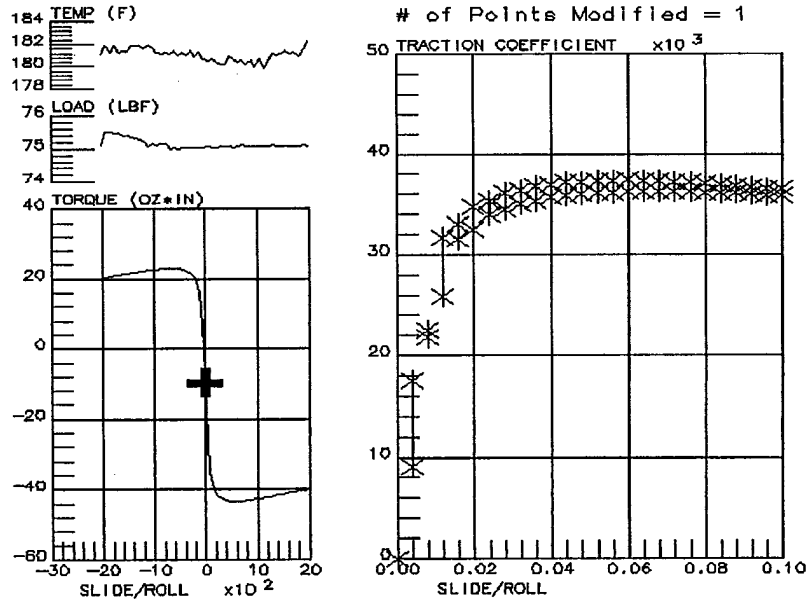
BB 89-105 Coray 100 new #106
180F 23LBF 5093RPM 4 FILE: bb180e



BB 89-105 Coray 100 new #107
180F 44LBF 5093RPM 5 FILE: bb180e



BB 89-105 Coray 100 new #108
180F 75LBF 5093RPM 6 FILE: bb180e



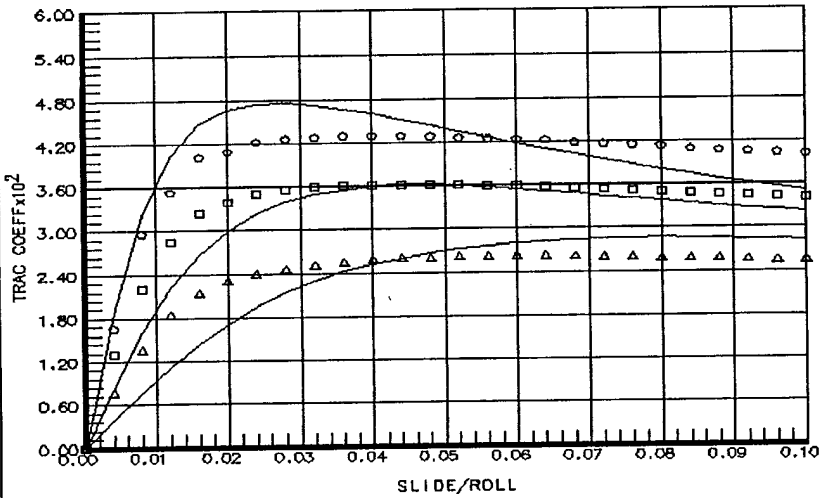
Lubricant name = BB 89-105 Coray 100 new

NEWTONIAN MODEL TYPE 1

Dataset Name	Inlet Temp (K)	Roll Velocity (M/S)	XMU* (Pa.S)	ALFA* (1/Pa)	BETA* (1/K)
bb1.dat	2.9722E+02	5.0790E+00	2.1413E+00	7.5000E-09	1.4956E-01
bb2.dat	2.9722E+02	7.6206E+00	2.0089E+00	7.5000E-09	1.1819E-01
bb3.dat	2.9722E+02	1.0160E+01	1.0572E+00	7.5000E-09	9.2225E-02
bb4.dat	3.1111E+02	5.0790E+00	2.7423E+00	7.5000E-09	2.2425E-01
bb5.dat	3.1111E+02	7.6206E+00	1.7197E+00	7.5000E-09	1.5052E-01
bb6.dat	3.1111E+02	1.0160E+01	1.2113E+00	7.5000E-09	1.1576E-01
bb7.dat	3.2222E+02	5.0790E+00	2.2774E+00	7.5000E-09	2.8345E-01
bb8.dat	3.2222E+02	7.6206E+00	9.2528E-01	7.5000E-09	1.8020E-01
bb9.dat	3.2222E+02	1.0160E+01	7.8230E-01	7.5000E-09	1.3905E-01
bb10.dat	3.5556E+02	5.0790E+00	4.0157E-01	7.5000E-09	6.3284E-01
bb11.dat	3.5556E+02	7.6206E+00	3.6886E-01	7.5000E-09	3.5178E-01
bb12.dat	3.5556E+02	1.0160E+01	2.8754E-01	7.5000E-09	2.3705E-01

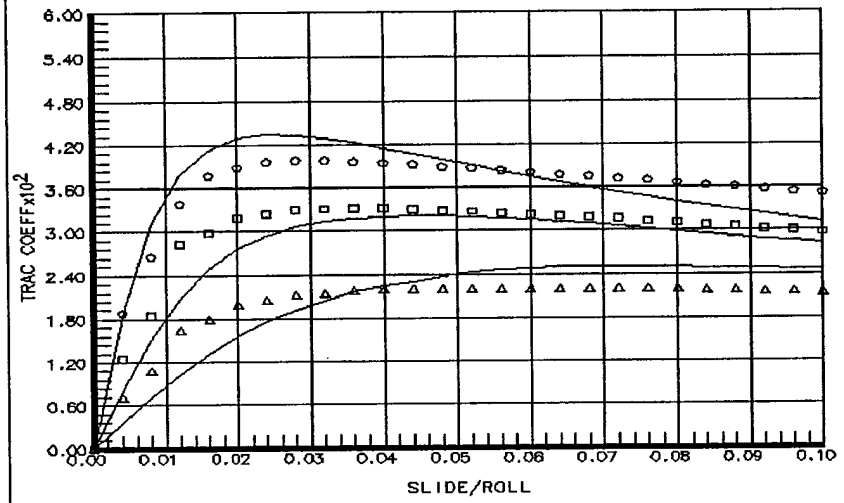
BB 89-105 Coray 100 new
NEWTONIAN MODEL TYPE 1 bb1.dat

				XMU*	ALFA*	BETA*
△	685MPA	102N	5.08M/S 297K # 15	2.141E+00	7.500E-09	1.496E-01
□	846MPA	196N	5.08M/S 297K # 17	2.141E+00	7.500E-09	1.496E-01
○	1012MPA	334N	5.08M/S 297K # 18	2.141E+00	7.500E-09	1.496E-01



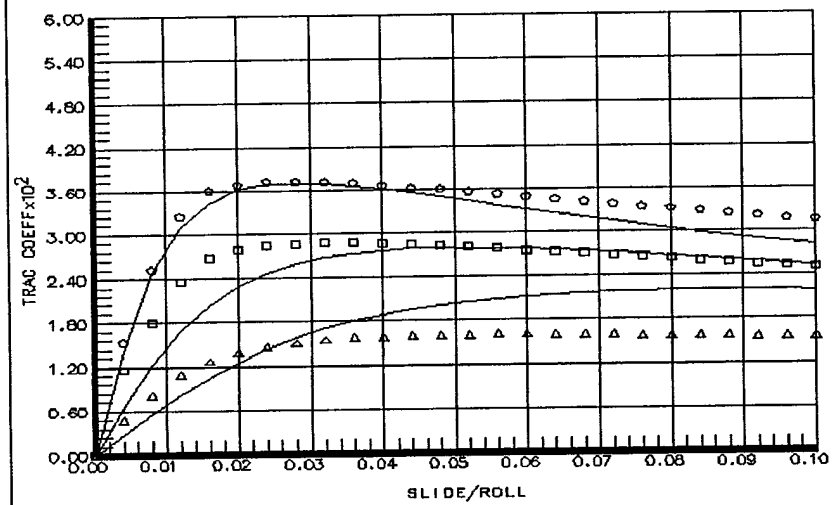
BB 89-105 Coray 100 new
NEWTONIAN MODEL TYPE 1 bb2.dat

				XMU*	ALFA*	BETA*
△	685MPA	102N	7.62M/S 297K # 22	2.009E+00	7.500E-09	1.182E-01
□	852MPA	196N	7.62M/S 297K # 23	2.009E+00	7.500E-09	1.182E-01
○	1013MPA	334N	7.62M/S 297K # 24	2.009E+00	7.500E-09	1.182E-01



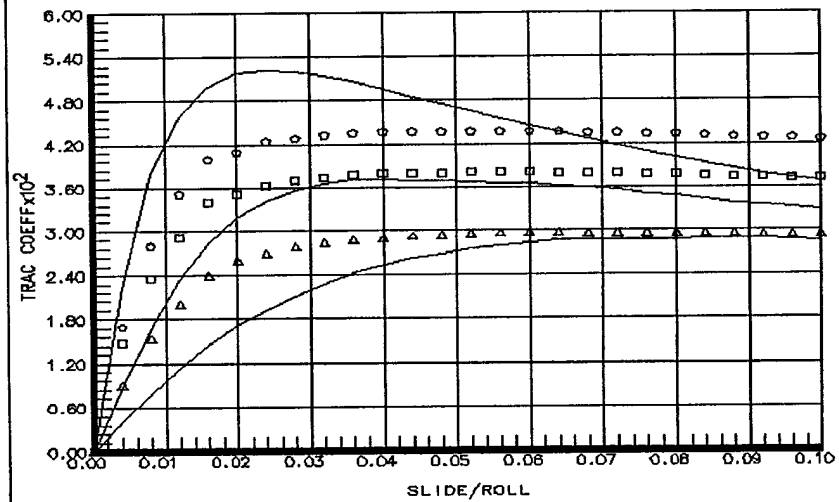
BB 89-105 Coray 100 new
NEWTONIAN MODEL TYPE 1 bb3.dat

				XMU*	ALFA*	BETA*
△	680MPA	102N	10.16M/S 297K # 28	1.057E+00	7.500E-09	9.222E-02
□	855MPA	196N	10.16M/S 297K # 29	1.057E+00	7.500E-09	9.222E-02
○	1016MPA	334N	10.16M/S 297K # 30	1.057E+00	7.500E-09	9.222E-02



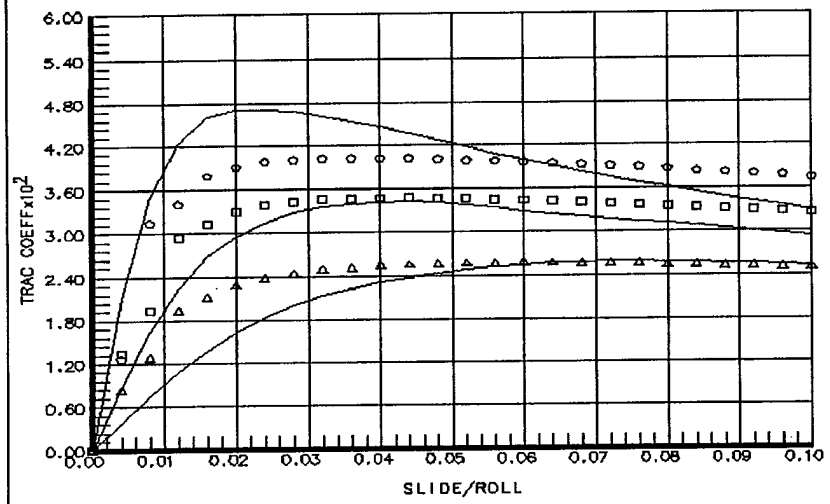
BB 89-105 Coray 100 new
NEWTONIAN MODEL TYPE 1 bb4.dat

				XMU*	ALFA*	BETA*
△	688MPA	102N	5.08M/S 311K # 46	2.742E+00	7.500E-09	2.242E-01
□	853MPA	196N	5.08M/S 311K # 47	2.742E+00	7.500E-09	2.242E-01
○	1012MPA	334N	5.08M/S 311K # 48	2.742E+00	7.500E-09	2.242E-01



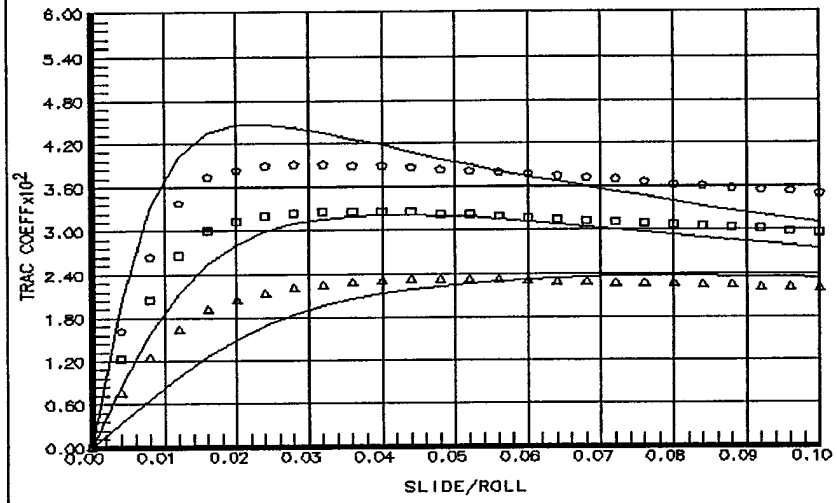
BB 89-105 Coray 100 new
NEWTONIAN MODEL TYPE 1 bb6.dat

				XMU*	ALFA*	BETA*
△	691MPA	102N	7.62M/S 311K # 52	1.720E+00	7.500E-09	1.505E-01
□	846MPA	196N	7.62M/S 311K # 53	1.720E+00	7.500E-09	1.505E-01
○	1013MPA	334N	7.62M/S 311K # 54	1.720E+00	7.500E-09	1.505E-01



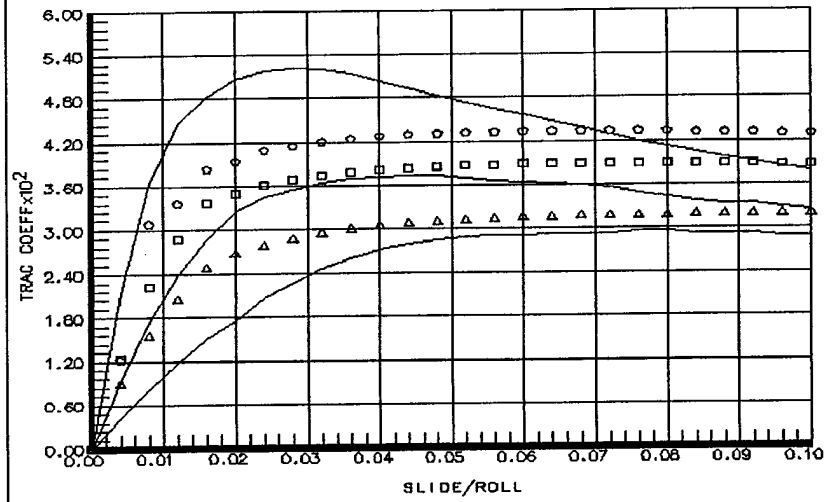
BB 89-105 Coray 100 new
NEWTONIAN MODEL TYPE 1 bb6.dat

				XMU*	ALFA*	BETA*
△	686MPA	102N	10.16M/S 311K # 58	1.211E+00	7.500E-09	1.158E-01
□	853MPA	196N	10.16M/S 311K # 59	1.211E+00	7.500E-09	1.158E-01
○	1012MPA	334N	10.16M/S 311K # 60	1.211E+00	7.500E-09	1.158E-01



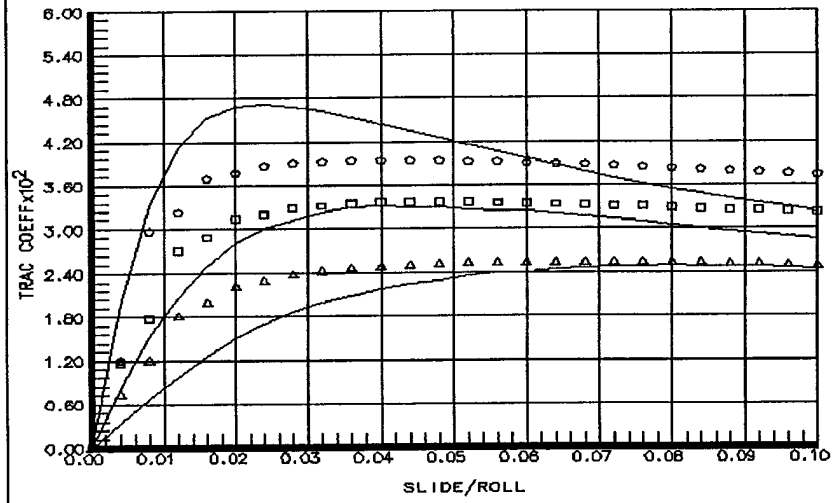
BB 89-105 Coray 100 new
NEWTONIAN MODEL TYPE 1 bb7.dat

				XMU*	ALFA*	BETA*
△	692MPA	102N	5.08M/S 322K # 70	2.277E+00	7.500E-09	2.835E-01
□	858MPA	196N	5.08M/S 322K # 71	2.277E+00	7.500E-09	2.835E-01
○	1015MPA	334N	5.08M/S 322K # 72	2.277E+00	7.500E-09	2.835E-01



BB 89-105 Coray 100 new
NEWTONIAN MODEL TYPE 1 bb8.dat

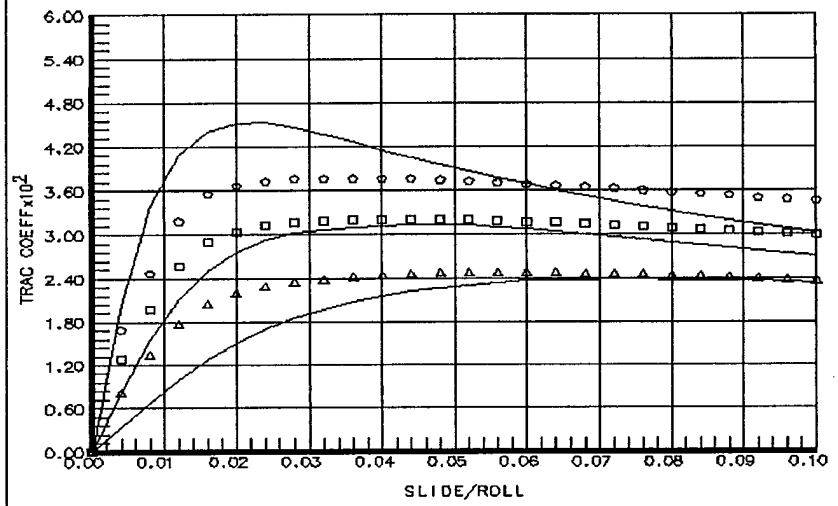
				XMU*	ALFA*	BETA*
△	685MPA	102N	7.62M/S 322K # 76	9.253E-01	7.500E-09	1.802E-01
□	850MPA	196N	7.62M/S 322K # 77	9.253E-01	7.500E-09	1.802E-01
○	1013MPA	334N	7.62M/S 322K # 78	9.253E-01	7.500E-09	1.802E-01



BB 89-105 Coray 100 new

NEWTONIAN MODEL TYPE 1 bb9.dat

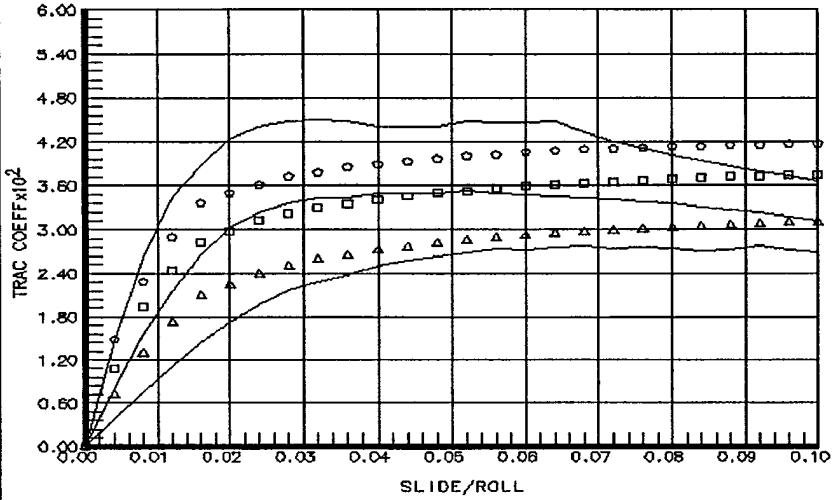
				XMU*	ALFA*	BETA*
△	694MPA	102N	10.16M/S 322K # 82	7.823E-01	7.500E-09	1.391E-01
□	852MPA	196N	10.16M/S 322K # 83	7.823E-01	7.500E-09	1.391E-01
○	1016MPA	334N	10.16M/S 322K # 84	7.823E-01	7.500E-09	1.391E-01



BB 89-105 Coray 100 new

NEWTONIAN MODEL TYPE 1 bb10.dat

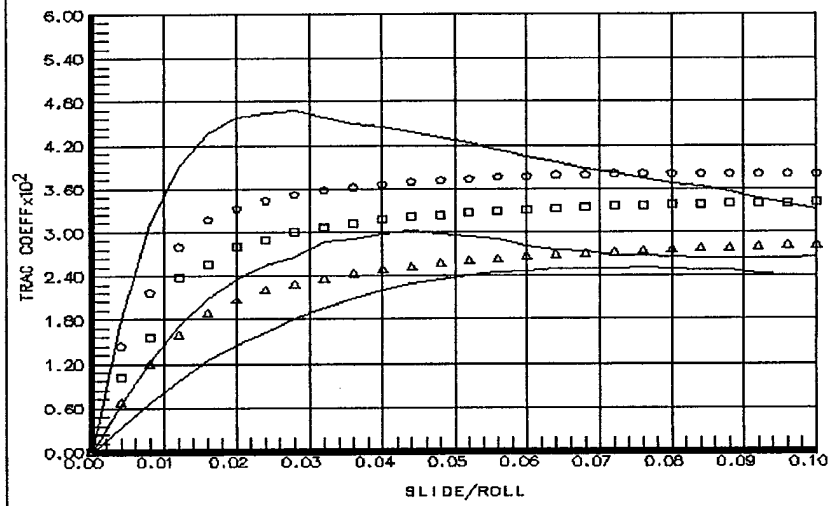
				XMU*	ALFA*	BETA*
△	691MPA	102N	5.08M/S 356K # 94	4.016E-01	7.500E-09	6.328E-01
□	853MPA	196N	5.08M/S 356K # 95	4.016E-01	7.500E-09	6.328E-01
○	1015MPA	334N	5.08M/S 356K # 96	4.016E-01	7.500E-09	6.328E-01



BB 89-105 Coray 100 new

NEWTONIAN MODEL TYPE 1 bb11.dat

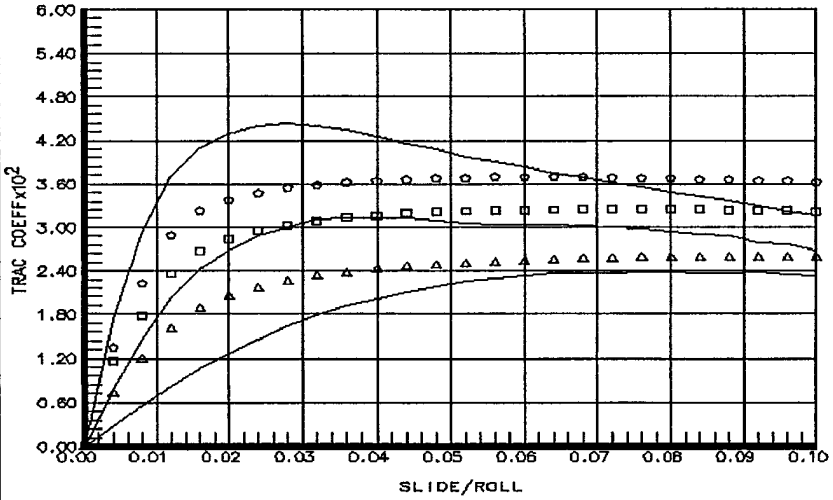
				XMU*	ALFA*	BETA*
△	691MPA	102N	7.62M/S 356K #100	3.689E-01	7.500E-09	3.518E-01
□	848MPA	196N	7.62M/S 356K #101	3.689E-01	7.500E-09	3.518E-01
○	1013MPA	334N	7.62M/S 356K #102	3.689E-01	7.500E-09	3.518E-01



BB 89-105 Coray 100 new

NEWTONIAN MODEL TYPE 1 bb12.dat

				XMU*	ALFA*	BETA*
△	688MPA	102N	10.16M/S 356K #106	2.875E-01	7.500E-09	2.371E-01
□	854MPA	196N	10.16M/S 356K #107	2.875E-01	7.500E-09	2.371E-01
○	1014MPA	334N	10.16M/S 356K #108	2.875E-01	7.500E-09	2.371E-01



6. Traction Data Set E: 89-105 Coray 100 Used

Data set name: BC 89-126 Coray 100 used
Rolling radii [Disks 1 & 2] (in): 0.75 0.75
Crown radii [Disks 1 & 2] (in): 9.50 9.90

Number of data sets found = 108

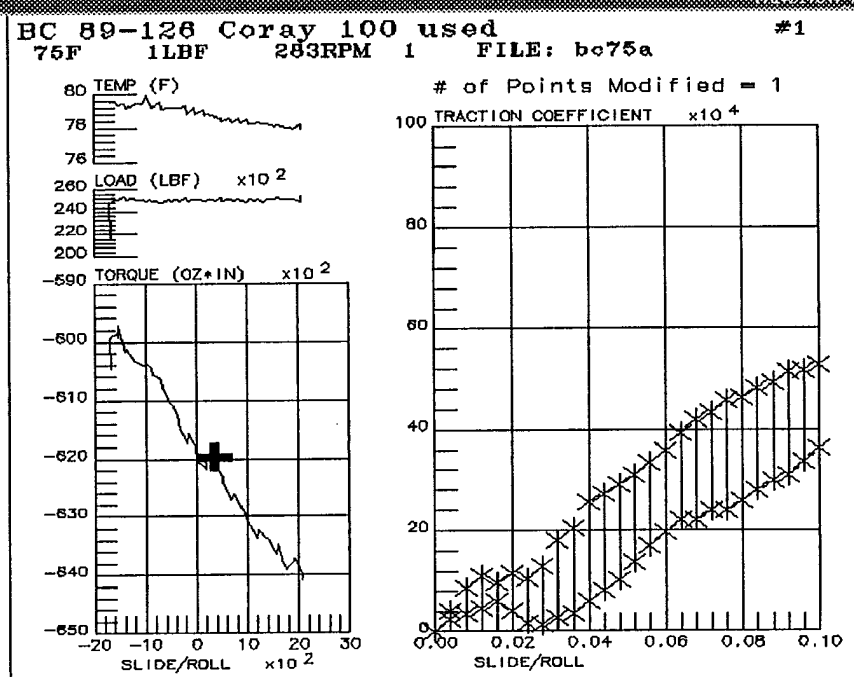
	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
1	75.00	1.35	255.20	311.20	283.20	49	0.71	1.49	0.40	0.40	1.00	6.56E-05	bc75a #1
2	75.00	4.90	255.20	311.20	283.20	49	0.71	1.49	0.40	0.40	1.00	2.81E-05	bc75a #2
3	75.00	9.16	255.20	311.20	283.20	49	0.71	1.49	0.40	0.40	1.00	3.16E-04	bc75a #3
4	75.00	22.65	255.20	311.20	283.20	49	0.71	1.49	0.40	0.40	1.00	4.48E-04	bc75a #4
5	75.00	43.95	255.20	311.20	283.20	49	0.71	1.49	0.40	0.40	1.00	6.86E-04	bc75a #5
6	75.00	75.19	255.20	311.20	283.20	49	0.71	1.49	0.40	0.40	1.00	1.84E-03	bc75a #6
7	75.00	1.35	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	1.25E-05	bc75b #1
8	75.00	4.90	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	2.70E-06	bc75b #2
9	75.00	9.16	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	6.53E-06	bc75b #3
10	75.00	22.65	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	1.10E-05	bc75b #4
11	75.00	43.95	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	2.39E-05	bc75b #5
12	75.00	75.19	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	2.21E-04	bc75b #6
13	75.00	1.35	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	3.91E-04	bc75c #1
14	75.00	4.90	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	5.72E-04	bc75c #2
15	75.00	9.16	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	7.95E-06	bc75c #3
16	75.00	22.65	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	4.83E-06	bc75c #4
17	75.00	43.95	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	9.11E-05	bc75c #5
18	75.00	75.19	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	2.19E-04	bc75c #6
19	75.00	1.35	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	1.26E-03	bc75d #1
20	75.00	4.90	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	2.47E-04	bc75d #2
21	75.00	9.16	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	2.35E-06	bc75d #3
22	75.00	22.65	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	1.12E-05	bc75d #4
23	75.00	43.95	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	1.20E-05	bc75d #5
24	75.00	75.19	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	8.03E-05	bc75d #6
25	75.00	1.35	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	7.84E-03	bc75e #1
26	75.00	4.90	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	3.11E-06	bc75e #2
27	75.00	9.16	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	1.64E-02	bc75e #3
28	75.00	22.65	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	8.74E-05	bc75e #4
29	75.00	43.95	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	2.69E-05	bc75e #5
30	75.00	75.19	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	1.24E-04	bc75e #6
31	100.00	1.35	255.20	311.20	283.20	49	0.71	1.49	0.40	0.40	1.00	3.49E-04	bc100a #1
32	100.00	4.90	255.20	311.20	283.20	49	0.71	1.49	0.40	0.40	1.00	8.87E-05	bc100a #2
33	100.00	9.16	255.20	311.20	283.20	49	0.71	1.49	0.40	0.40	1.00	4.37E-04	bc100a #3
34	100.00	22.65	255.20	311.20	283.20	49	0.71	1.49	0.40	0.40	1.00	2.90E-04	bc100a #4
35	100.00	43.95	255.20	311.20	283.20	49	0.71	1.49	0.40	0.40	1.00	6.92E-04	bc100a #5
36	100.00	75.19	255.20	311.20	283.20	49	0.71	1.49	0.40	0.40	1.00	1.99E-03	bc100a #6
37	100.00	1.35	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	3.93E-05	bc100b #1
38	100.00	4.90	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	2.02E-05	bc100b #2
39	100.00	9.16	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	1.94E-05	bc100b #3
40	100.00	22.65	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	1.50E-05	bc100b #4
41	100.00	43.95	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	2.86E-05	bc100b #5
42	100.00	75.19	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	1.67E-04	bc100b #6
43	100.00	1.35	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	1.60E-05	bc100c #1
44	100.00	4.90	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	1.43E-06	bc100c #2
45	100.00	9.16	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	7.94E-06	bc100c #3
46	100.00	22.65	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	6.03E-06	bc100c #4
47	100.00	43.95	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	4.41E-05	bc100c #5
48	100.00	75.19	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	2.00E-04	bc100c #6
49	100.00	1.35	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	4.07E-04	bc100d #1
50	100.00	4.90	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	5.31E-04	bc100d #2

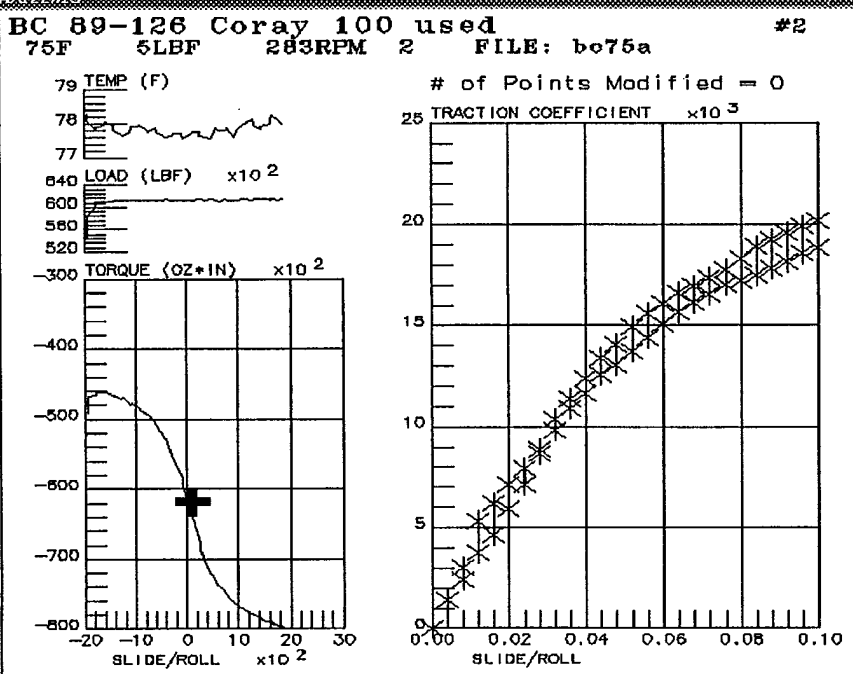
Data set: BC 89-126 Coray 100 used ....continued

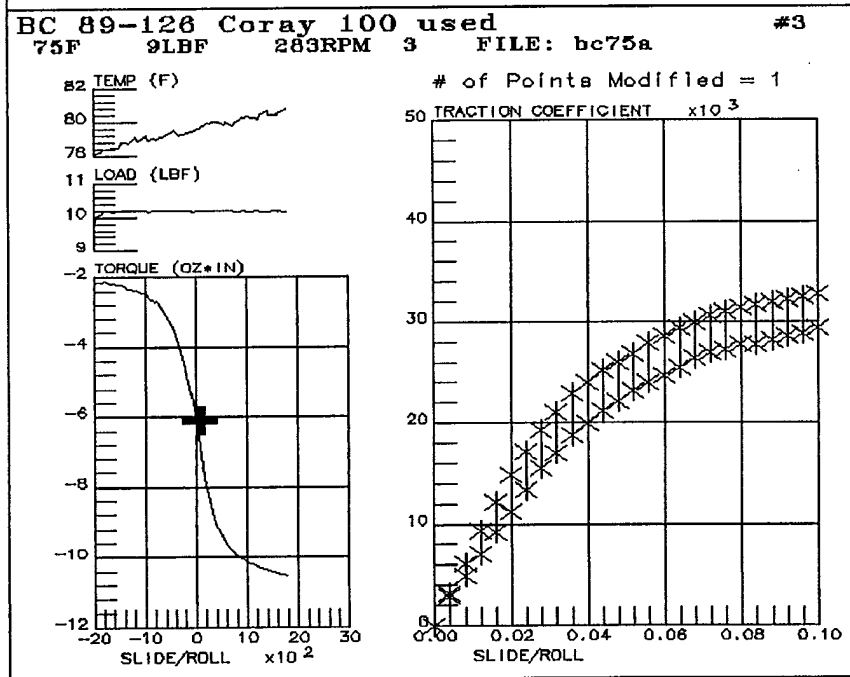
	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
51	100.00	9.16	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	3.19E-05	bc100d #3
52	100.00	22.65	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	7.47E-06	bc100d #4
53	100.00	43.95	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	3.19E-05	bc100d #5
54	100.00	75.19	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	1.03E-04	bc100d #6
55	100.00	1.35	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	9.47E-06	bc100e #1
56	100.00	4.90	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	3.54E-06	bc100e #2
57	100.00	9.16	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	2.36E-05	bc100e #3
58	100.00	22.65	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	9.62E-06	bc100e #4
59	100.00	43.95	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	3.84E-05	bc100e #5
60	100.00	75.19	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	1.34E-04	bc100e #6
61	120.00	1.35	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	7.35E-05	bc120b #1
62	120.00	4.90	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	1.25E-05	bc120b #2
63	120.00	9.16	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	2.65E-05	bc120b #3
64	120.00	22.65	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	2.55E-05	bc120b #4
65	120.00	43.95	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	2.87E-05	bc120b #5
66	120.00	75.19	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	1.69E-04	bc120b #6
67	120.00	1.35	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	1.58E-03	bc120c #1
68	120.00	4.90	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	1.45E-05	bc120c #2
69	120.00	9.16	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	1.41E-06	bc120c #3
70	120.00	22.65	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	6.54E-06	bc120c #4
71	120.00	43.95	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	4.08E-05	bc120c #5
72	120.00	75.19	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	1.79E-04	bc120c #6
73	120.00	1.35	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	2.14E-04	bc120d #1
74	120.00	4.90	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	5.99E-05	bc120d #2
75	120.00	9.16	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	1.37E-05	bc120d #3
76	120.00	22.65	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	6.04E-06	bc120d #4
77	120.00	43.95	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	1.58E-05	bc120d #5
78	120.00	75.19	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	8.48E-05	bc120d #6
79	120.00	1.35	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	1.46E-04	bc120e #1
80	120.00	4.90	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	2.07E-04	bc120e #2
81	120.00	9.16	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	3.68E-05	bc120e #3
82	120.00	22.65	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	1.87E-05	bc120e #4
83	120.00	43.95	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	2.58E-05	bc120e #5
84	120.00	75.19	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	1.60E-04	bc120e #6
85	180.00	1.35	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	1.71E-05	bc180b #1
86	180.00	4.90	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	1.21E-05	bc180b #2
87	180.00	9.16	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	1.62E-05	bc180b #3
88	180.00	22.65	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	4.71E-05	bc180b #4
89	180.00	43.95	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	4.58E-05	bc180b #5
90	180.00	75.19	1146.00	1400.00	1273.00	49	0.71	1.49	0.40	0.40	1.00	1.40E-04	bc180b #6
91	180.00	1.35	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	1.68E-04	bc180c #1
92	180.00	4.90	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	6.52E-06	bc180c #2
93	180.00	9.16	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	5.44E-06	bc180c #3
94	180.00	22.65	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	2.68E-05	bc180c #4
95	180.00	43.95	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	4.67E-05	bc180c #5
96	180.00	75.19	2291.20	2800.00	2545.60	49	0.71	1.49	0.40	0.40	1.00	7.45E-05	bc180c #6
97	180.00	1.35	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	2.00E-05	bc180d #1
98	180.00	4.90	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	1.04E-05	bc180d #2
99	180.00	9.16	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	2.08E-05	bc180d #3
100	180.00	22.65	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	5.82E-06	bc180d #4
101	180.00	43.95	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	1.34E-05	bc180d #5
102	180.00	75.19	3438.00	4202.00	3820.00	49	0.71	1.49	0.40	0.40	1.00	1.11E-04	bc180d #6
103	180.00	1.35	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	1.77E-04	bc180e #1
104	180.00	4.90	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	1.19E-05	bc180e #2
105	180.00	9.16	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	6.10E-06	bc180e #3
106	180.00	22.65	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	1.44E-05	bc180e #4
107	180.00	43.95	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	5.20E-05	bc180e #5
108	180.00	75.19	4584.00	5602.00	5093.00	49	0.71	1.49	0.40	0.40	1.00	1.60E-04	bc180e #6

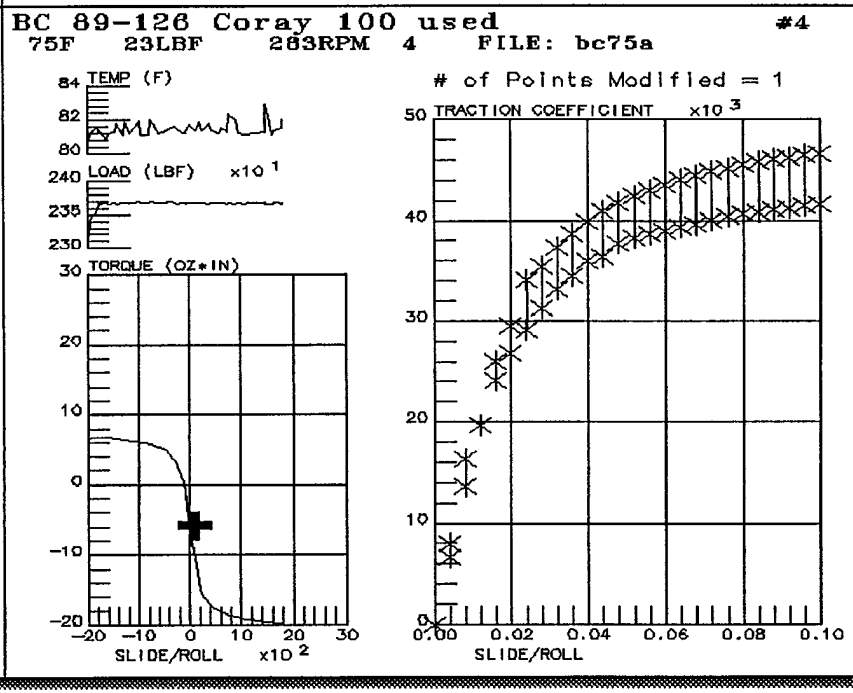
Summary of Select Data Files

Filename	Temp	RollRpm	DataCurve #		
bc1.dat	75.00	2546.00	16	17	18
bc2.dat	75.00	3820.00	22	23	24
bc3.dat	75.00	5093.00	28	29	30
bc4.dat	100.00	2546.00	46	47	48
bc5.dat	100.00	3820.00	52	53	54
bc6.dat	100.00	5093.00	58	59	60
bc7.dat	120.00	2546.00	70	71	72
bc8.dat	120.00	3820.00	76	77	78
bc9.dat	120.00	5093.00	82	83	84
bc10.dat	180.00	2546.00	94	95	96
bc11.dat	180.00	3820.00	100	101	102
bc12.dat	180.00	5093.00	106	107	108

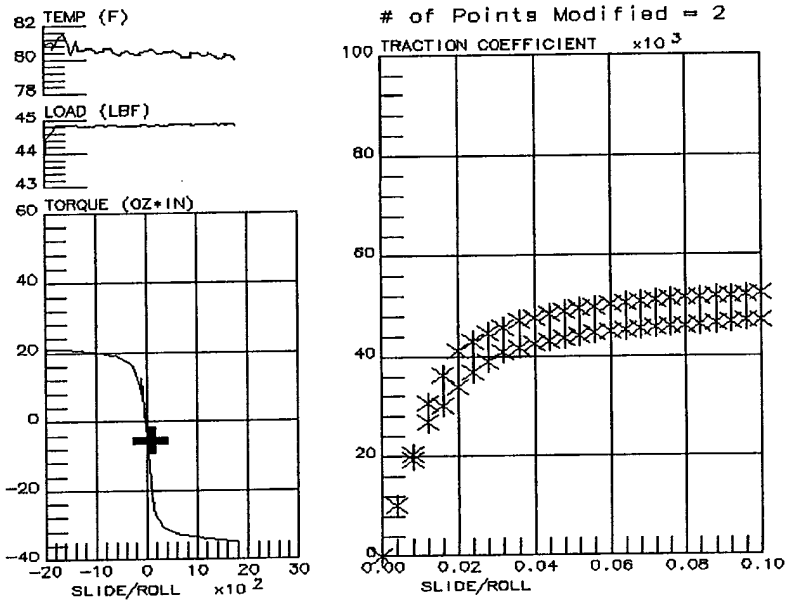

BC 89-126 Coray 100 used #1
75F 1LBF 283RPM 1 FILE: bc75a
# of Points Modified = 1
TEMP (F)
LOAD (LBF) x10 2
TORQUE (OZ*IN) x10 2
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 4
SLIDE/ROLL


BC 89-126 Coray 100 used #2
75F 5LBF 283RPM 2 FILE: bc75a
# of Points Modified = 0
TEMP (F)
LOAD (LBF) x10 2
TORQUE (OZ*IN) x10 2
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL

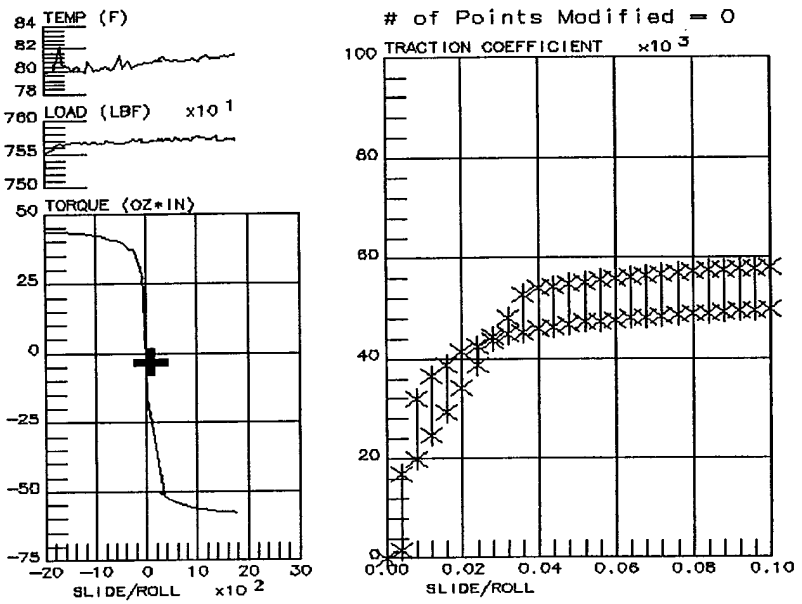

BC 89-126 Coray 100 used #3
75F 9LBF 283RPM 3 FILE: bc75a
# of Points Modified = 1
TEMP (F)
LOAD (LBF)
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL


BC 89-126 Coray 100 used #4
75F 23LBF 283RPM 4 FILE: bc75a
# of Points Modified = 1
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL

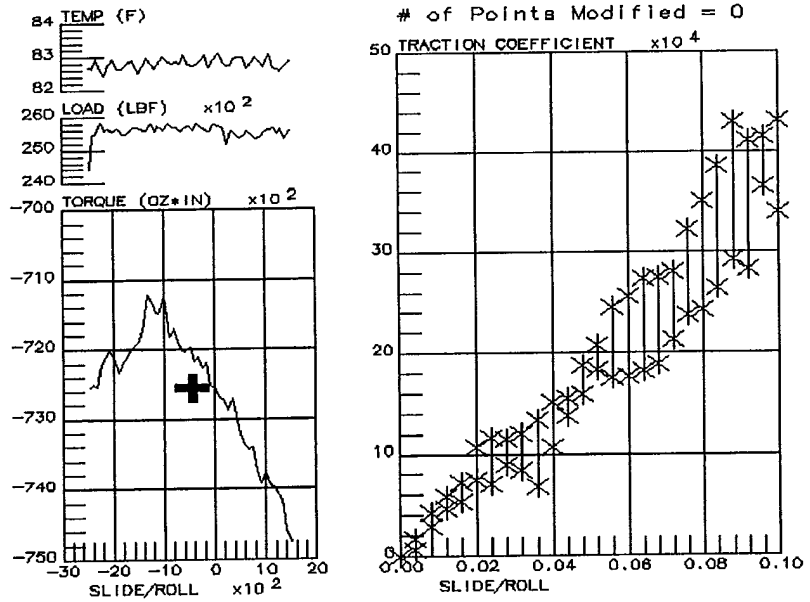
BC 89-126 Coray 100 used #5
75F 44LBF 283RPM 5 FILE: bc75a



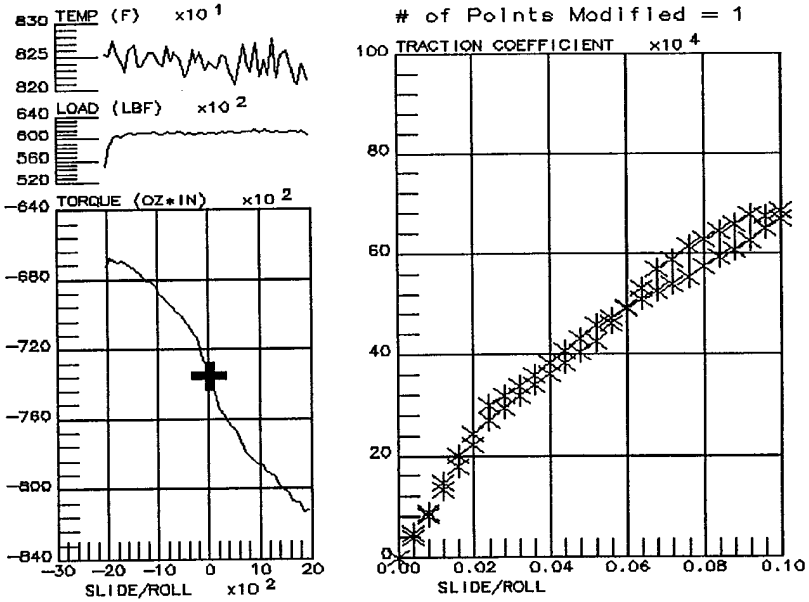
BC 89-126 Coray 100 used #6
75F 75LBF 283RPM 6 FILE: bc75a



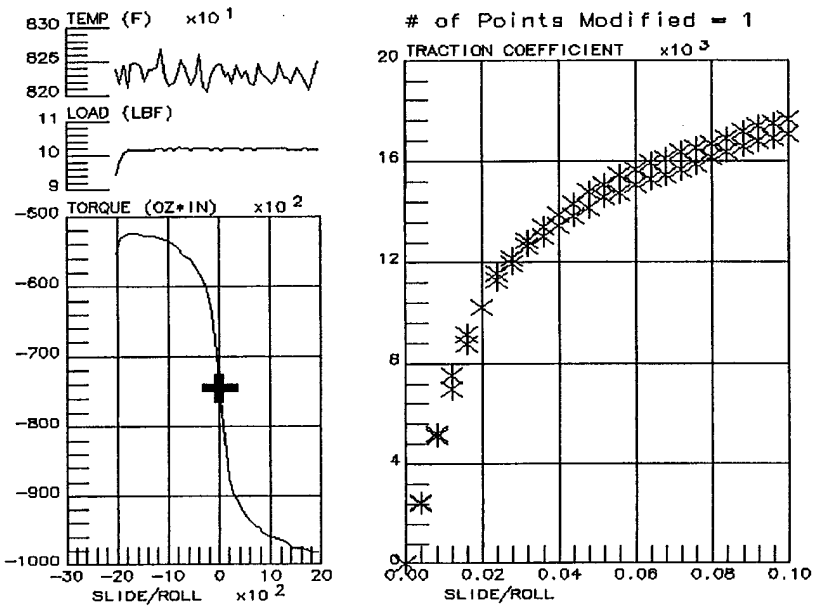
BC 89-126 Coray 100 used #7
75F 1LBF 1273RPM 1 FILE: bc75b



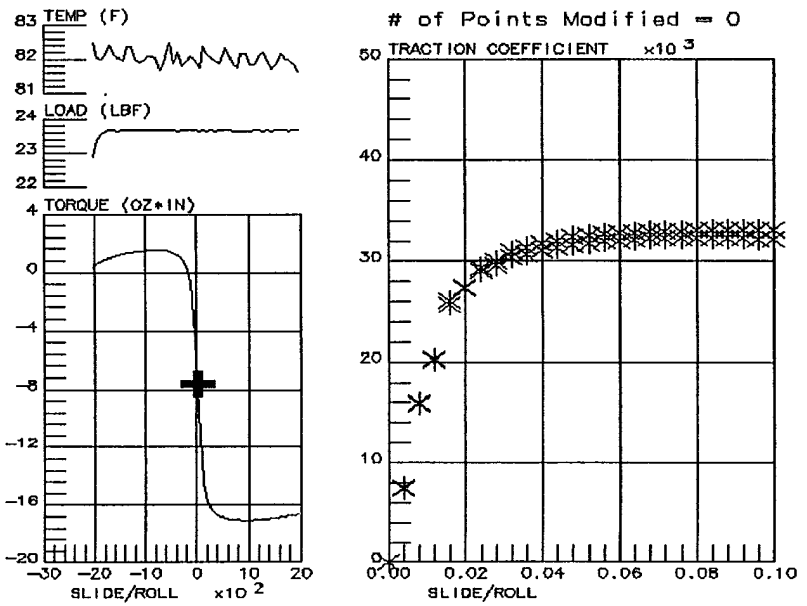
BC 89-126 Coray 100 used #8
75F 5LBF 1273RPM 2 FILE: bc75b



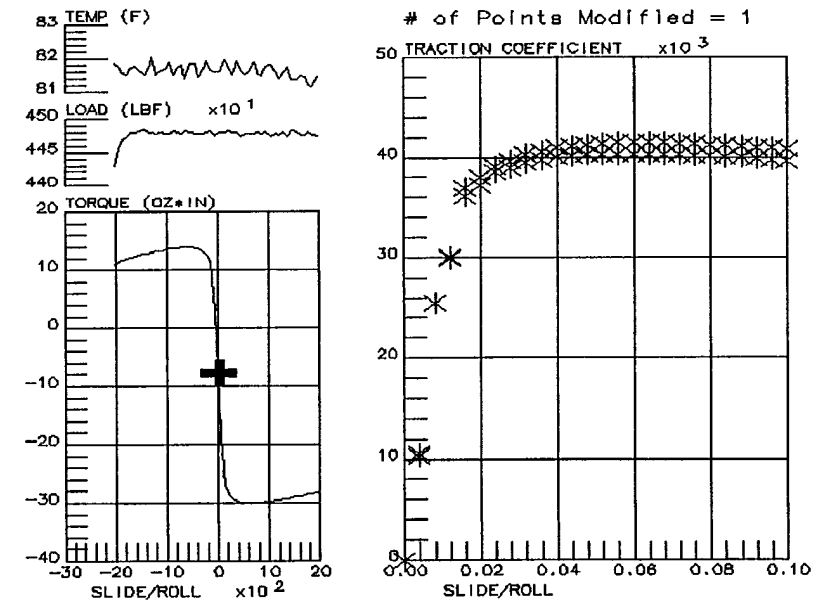
BC 89-126 Coray 100 used #9
75F 9LBF 1273RPM 3 FILE: bc75b



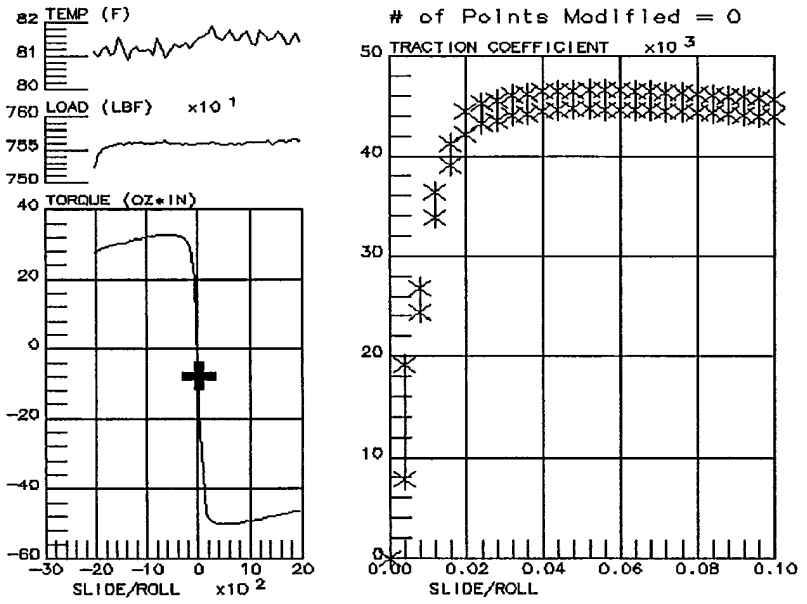
BC 89-126 Coray 100 used #10
75F 23LBF 1273RPM 4 FILE: bc75b



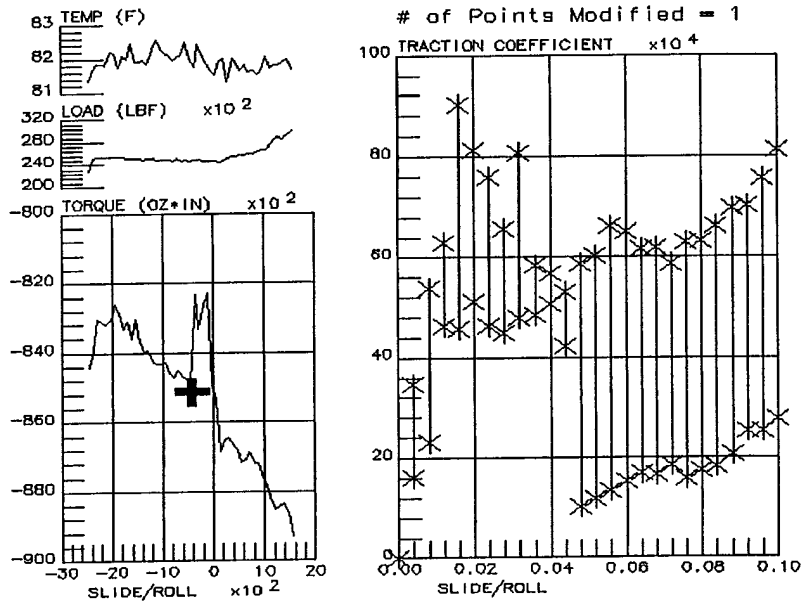
BC 89-126 Coray 100 used #11
75F 44LBF 1273RPM 5 FILE: bc75b



BC 89-126 Coray 100 used #12
75F 75LBF 1273RPM 6 FILE: bc75b

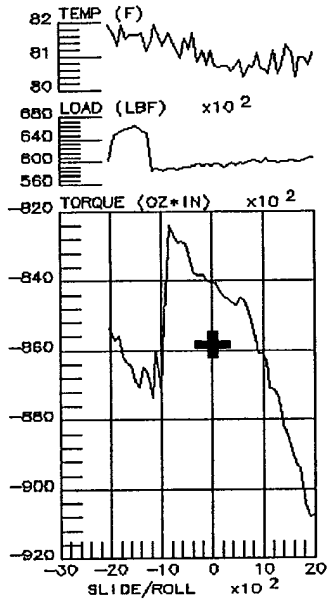


BC 89-126 Coray 100 used #13
75F 1LBF 2546RPM 1 FILE: bc75c

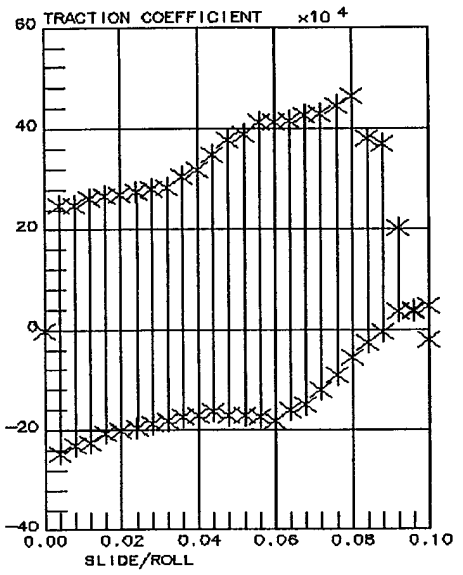


# of Points Modified = 1

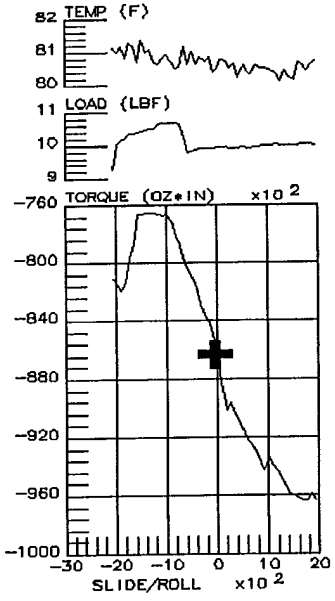
BC 89-126 Coray 100 used #14
75F 5LBF 2546RPM 2 FILE: bc75c



# of Points Modified = 2



BC 89-126 Coray 100 used #15
75F 9LBF 2546RPM 3 FILE: bc75c



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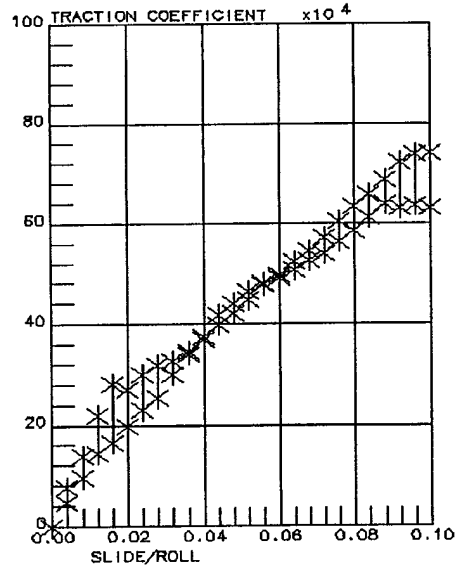
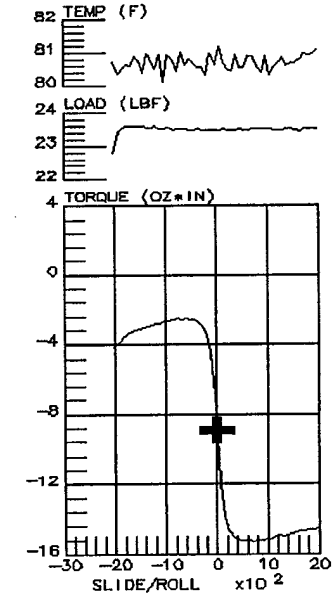
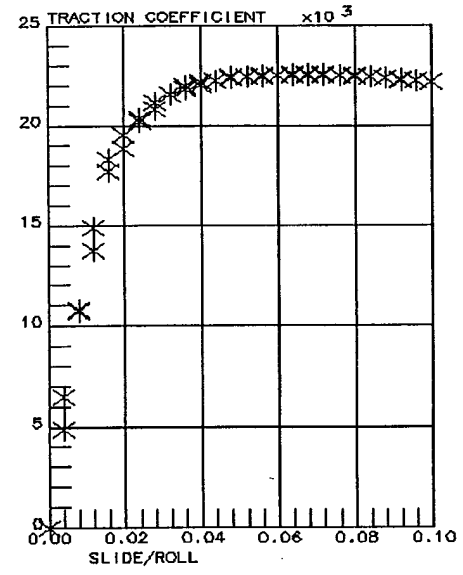


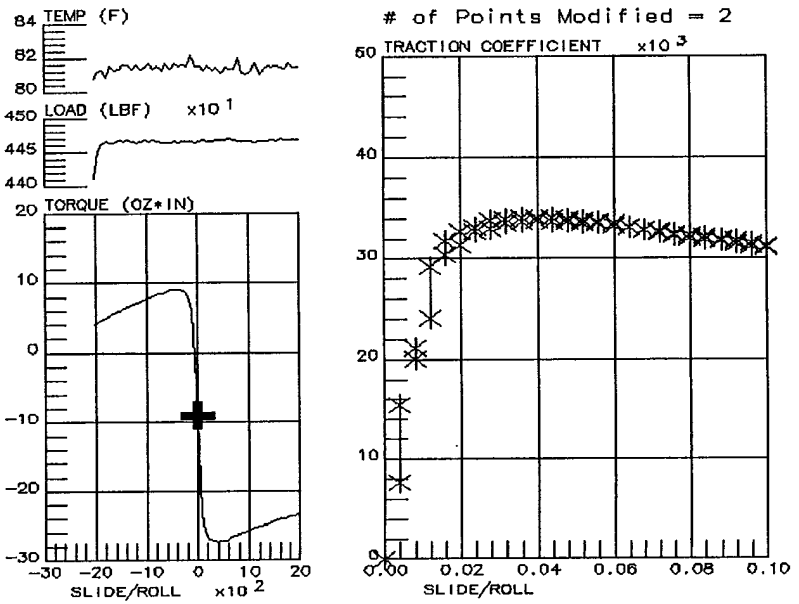
BC 89-126 Coray 100 used #16
75F 23LBF 2546RPM 4 FILE: bc75c



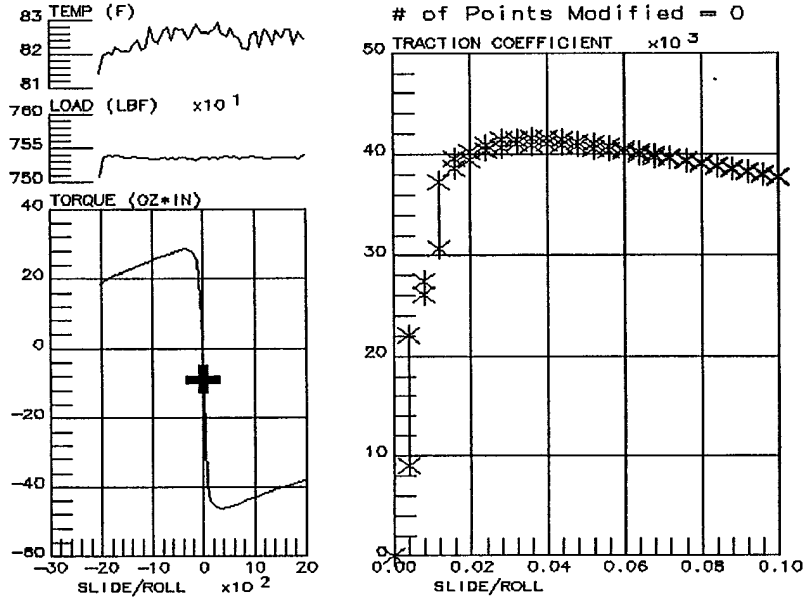
# of Points Modified = 0



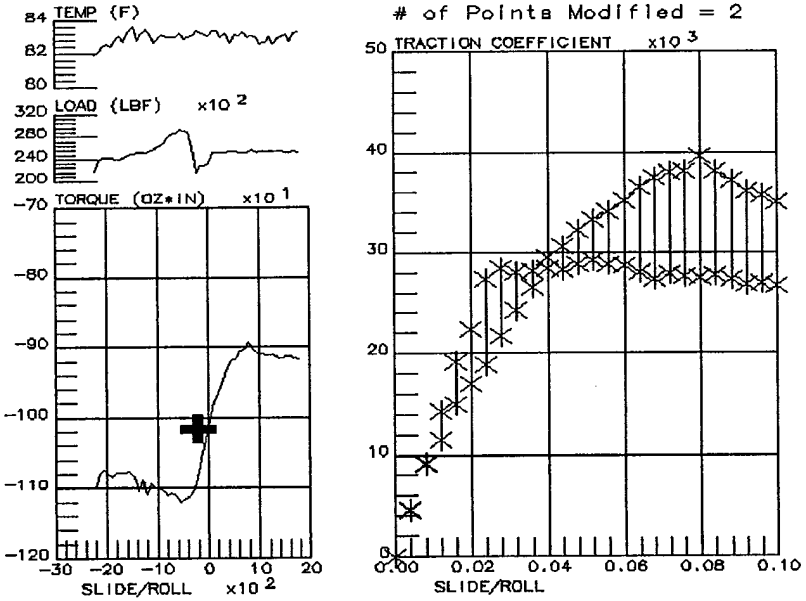
BC 89-126 Coray 100 used #17
75F 44LBF 2546RPM 5 FILE: bc75c



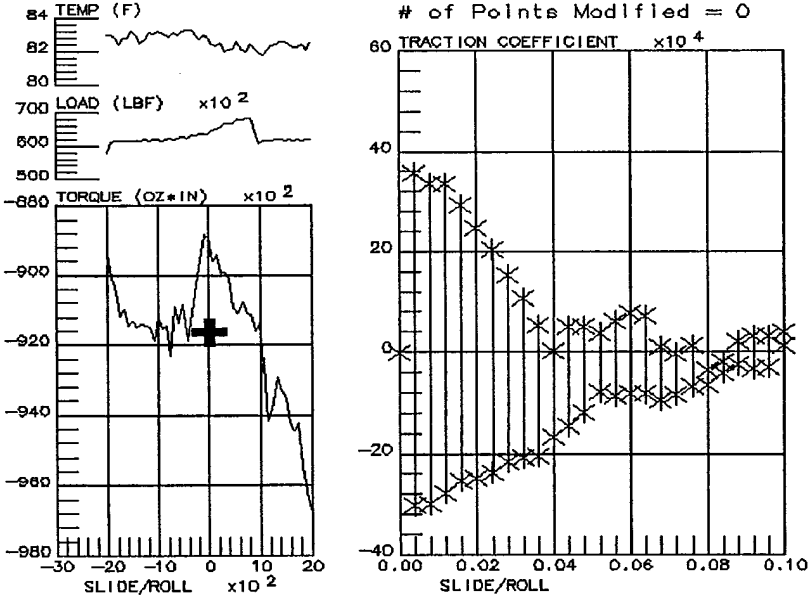
BC 89-126 Coray 100 used #18
75F 75LBF 2546RPM 6 FILE: bc75c



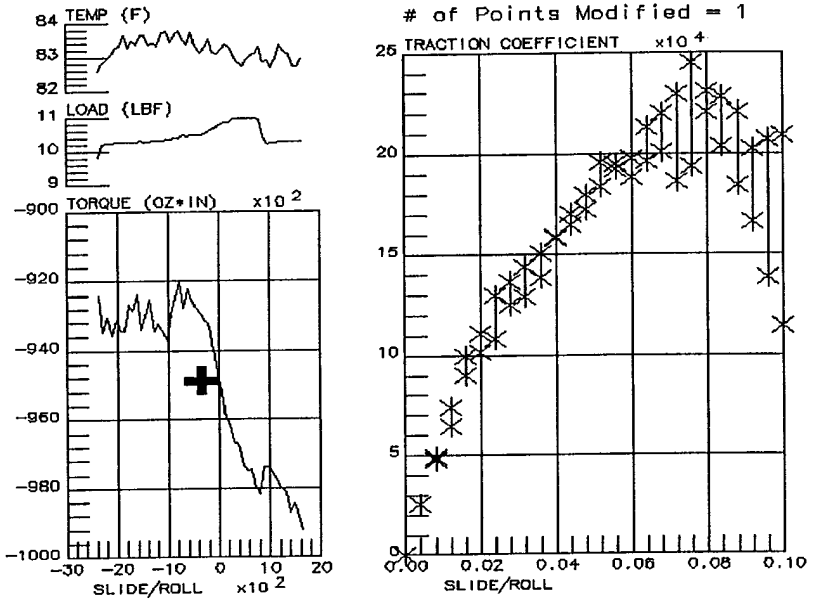
BC 89-126 Coray 100 used #19
75F 1LBF 3820RPM 1 FILE: bc75d



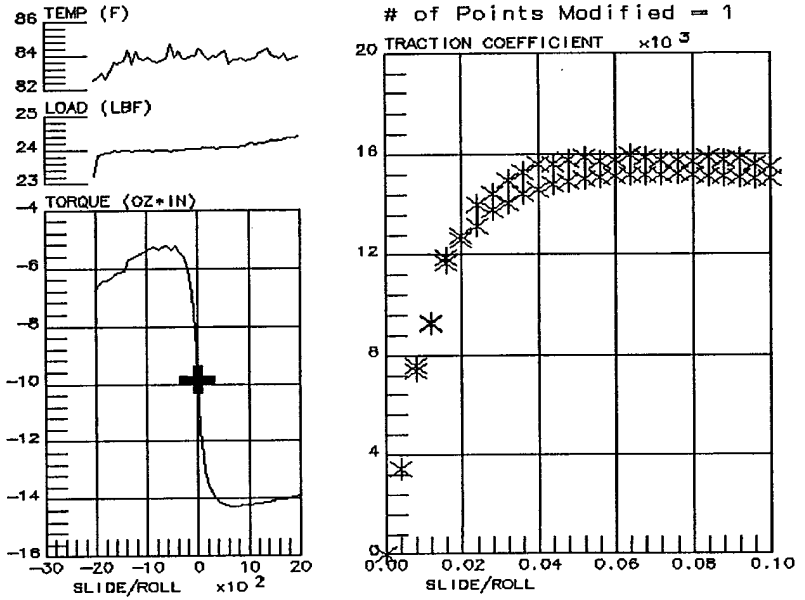
BC 89-126 Coray 100 used #20
75F 5LBF 3820RPM 2 FILE: bc75d



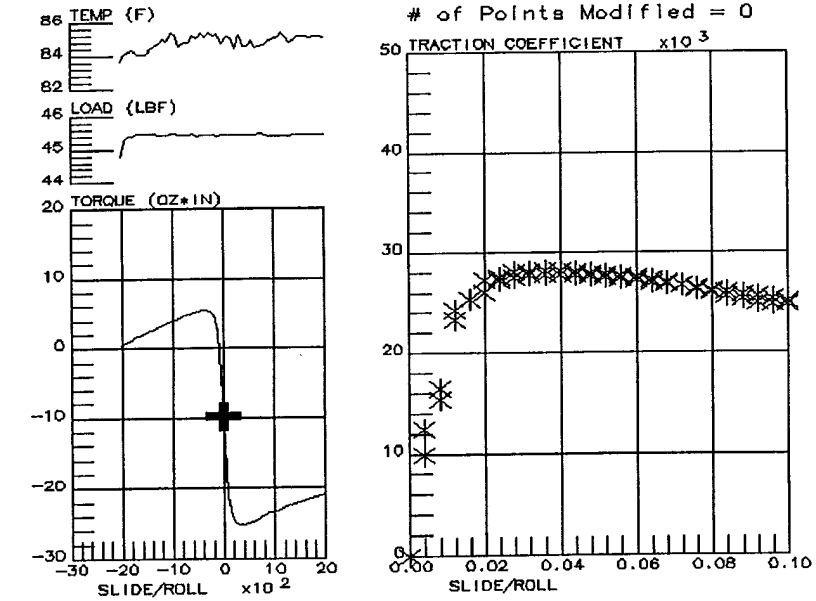
BC 89-126 Coray 100 used #21
75F 9LBF 3820RPM 3 FILE: bc75d



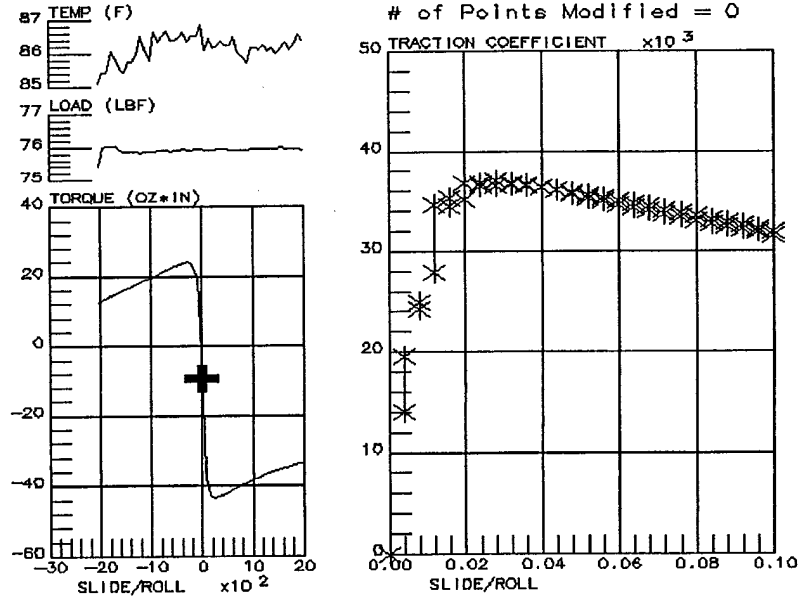
BC 89-126 Coray 100 used #22
75F 23LBF 3820RPM 4 FILE: bc75d



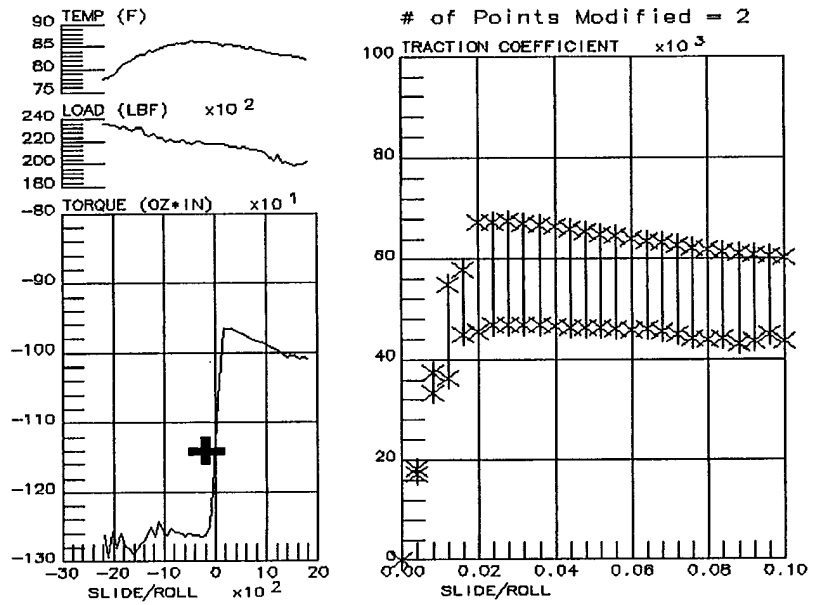
BC 89-126 Coray 100 used #23
75F 44LBF 3820RPM 5 FILE: bc75d



BC 89-126 Coray 100 used #24
75F 75LBF 3820RPM 6 FILE: bc75d

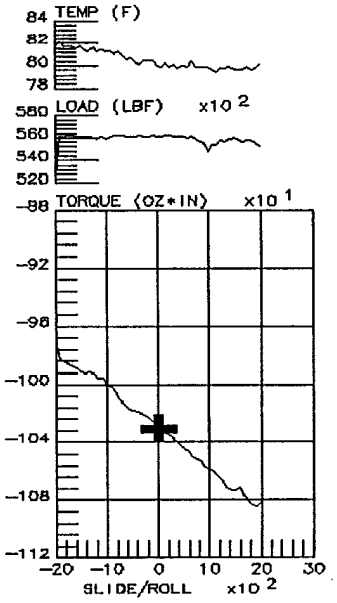


BC 89-126 Coray 100 used #25
75F 1LBF 5093RPM 1 FILE: bc75e

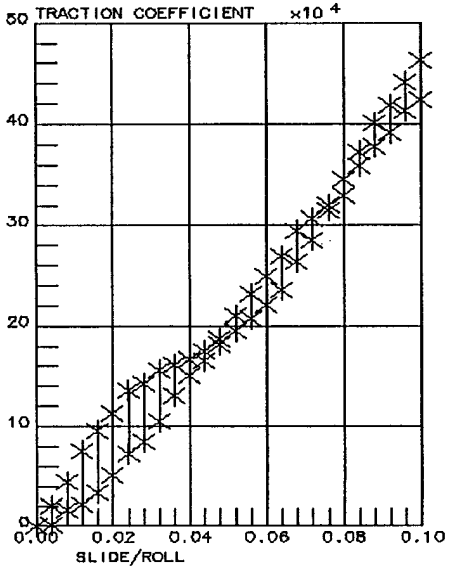


# of Points Modified = 2

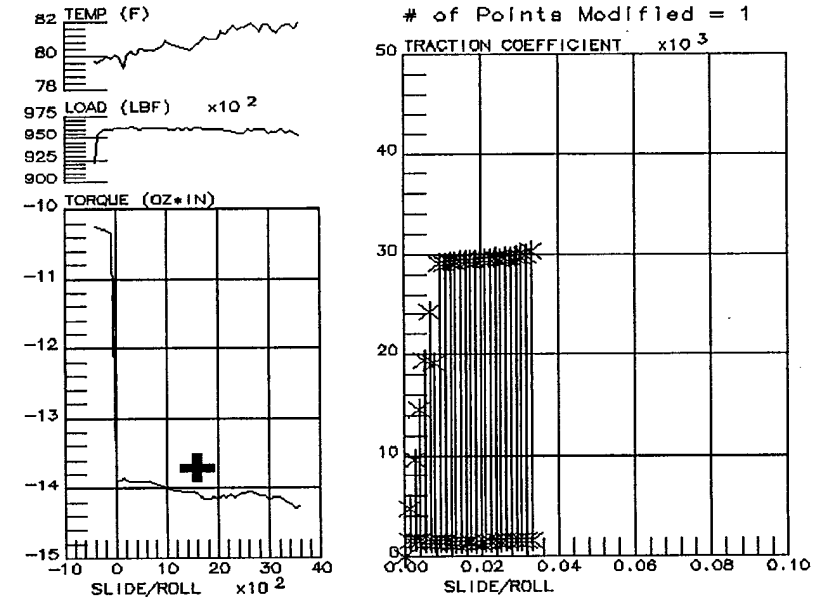
BC 89-126 Coray 100 used #26
75F 5LBF 5093RPM 2 FILE: bc75e



# of Points Modified = 0

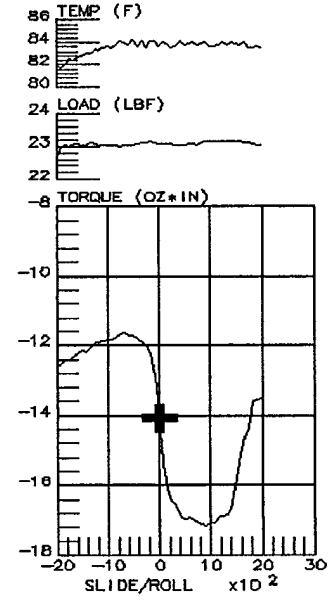


BC 89-126 Coray 100 used #27
75F 9LBF 5093RPM 3 FILE: bc75e

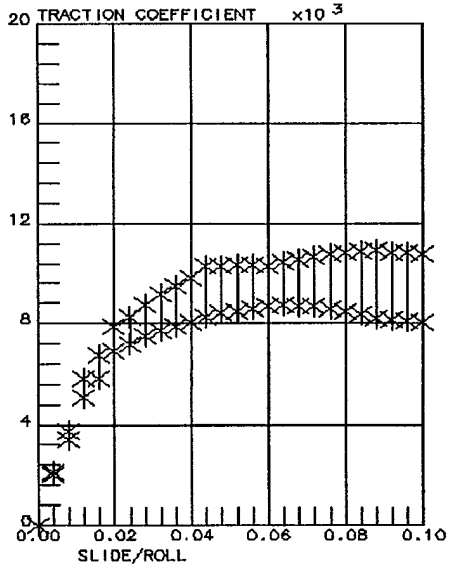


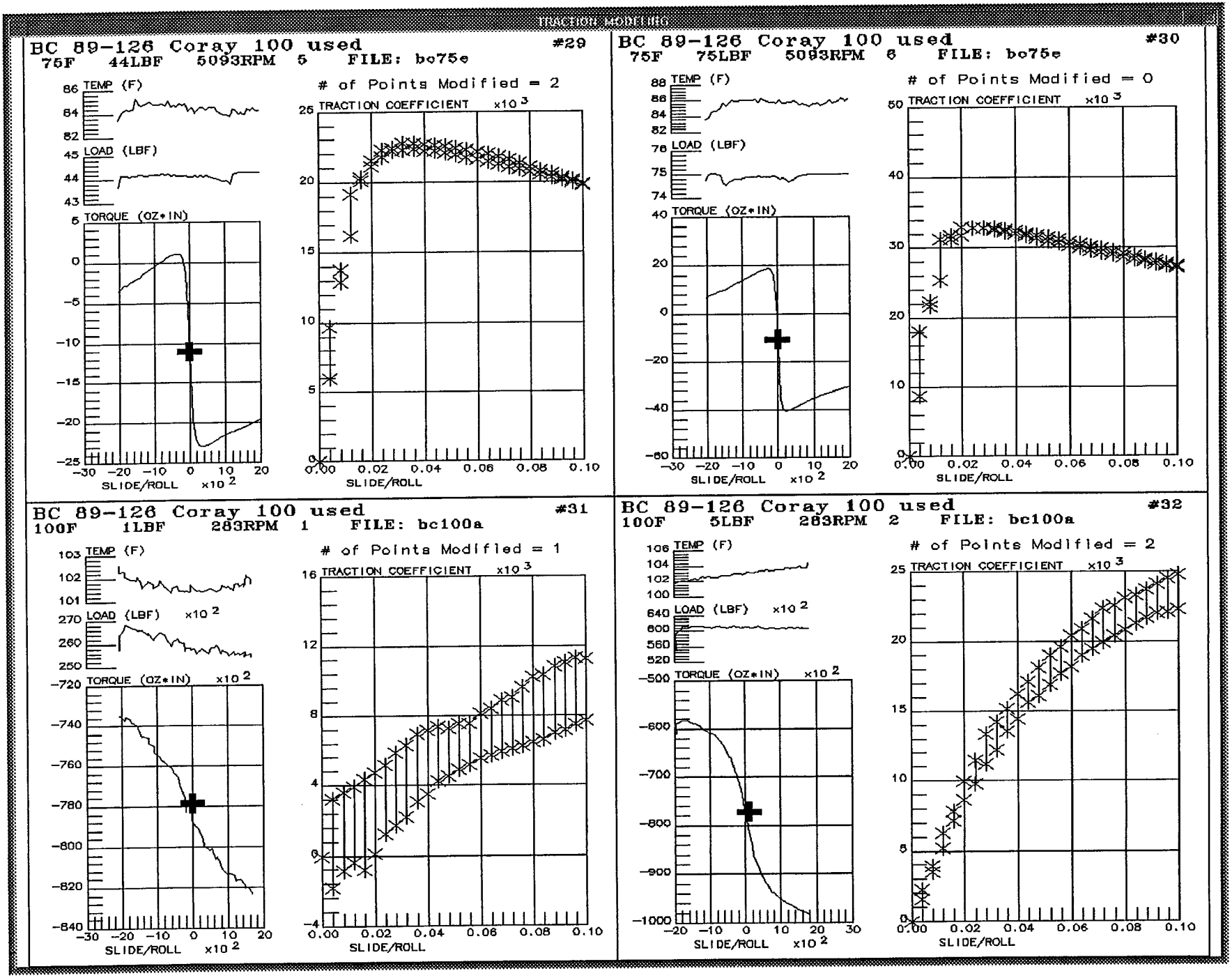
# of Points Modified = 1

BC 89-126 Coray 100 used #28
75F 23LBF 5093RPM 4 FILE: bc75e

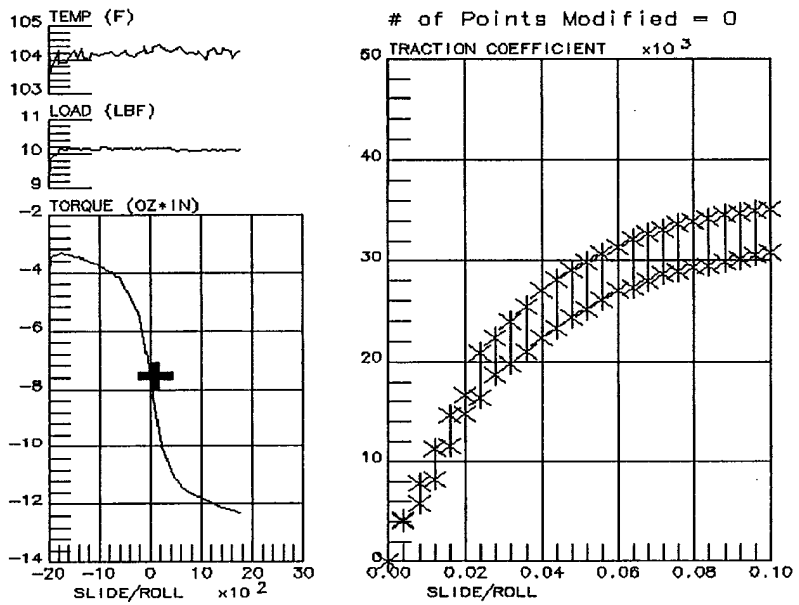


# of Points Modified = 1

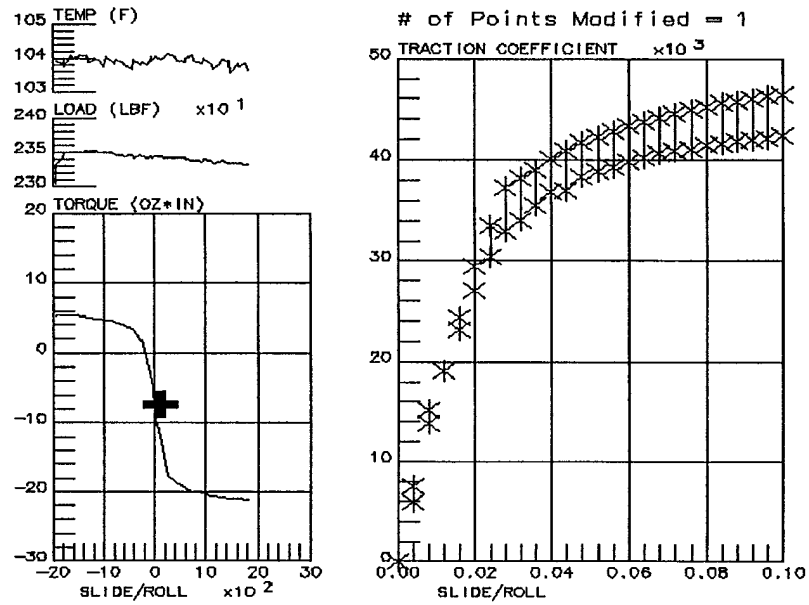



BC 89-126 Coray 100 used #29
75F 44LBF 5093RPM 5 FILE: bc75e
# of Points Modified = 2
TEMP (F)
LOAD (LBF)
TORQUE (OZ*IN)
TRACTION COEFFICIENT x10 3
SLIDE/ROLL x10 2
SLIDE/ROLL
BC 89-126 Coray 100 used #30
75F 75LBF 5093RPM 6 FILE: bc75e
# of Points Modified = 0
TEMP (F)
LOAD (LBF)
TORQUE (OZ*IN)
TRACTION COEFFICIENT x10 3
SLIDE/ROLL x10 2
SLIDE/ROLL
BC 89-126 Coray 100 used #31
100F 1LBF 283RPM 1 FILE: bc100a
# of Points Modified = 1
TEMP (F)
LOAD (LBF) x10 2
TORQUE (OZ*IN) x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL x10 2
SLIDE/ROLL
BC 89-126 Coray 100 used #32
100F 5LBF 283RPM 2 FILE: bc100a
# of Points Modified = 2
TEMP (F)
LOAD (LBF) x10 2
TORQUE (OZ*IN) x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL x10 2
SLIDE/ROLL

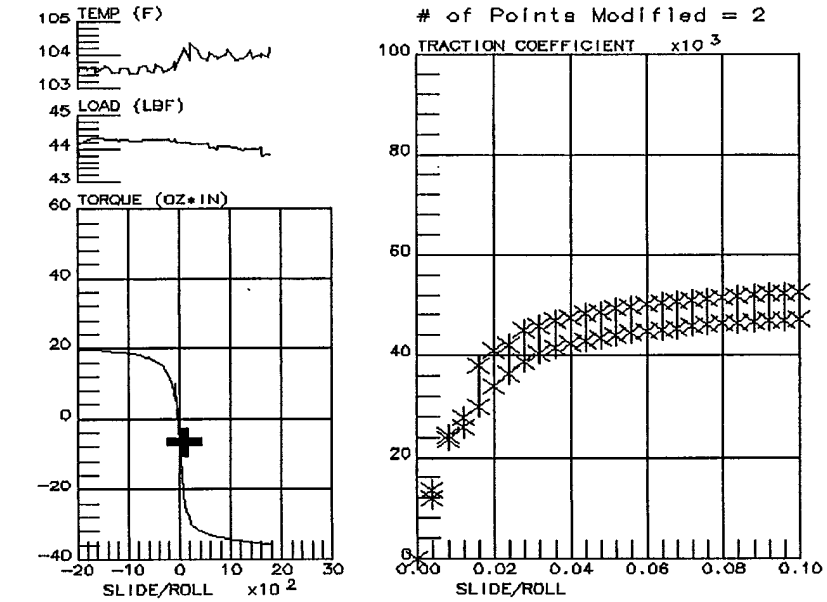
BC 89-126 Coray 100 used #33
100F 9LBF 283RPM 3 FILE: bc100a



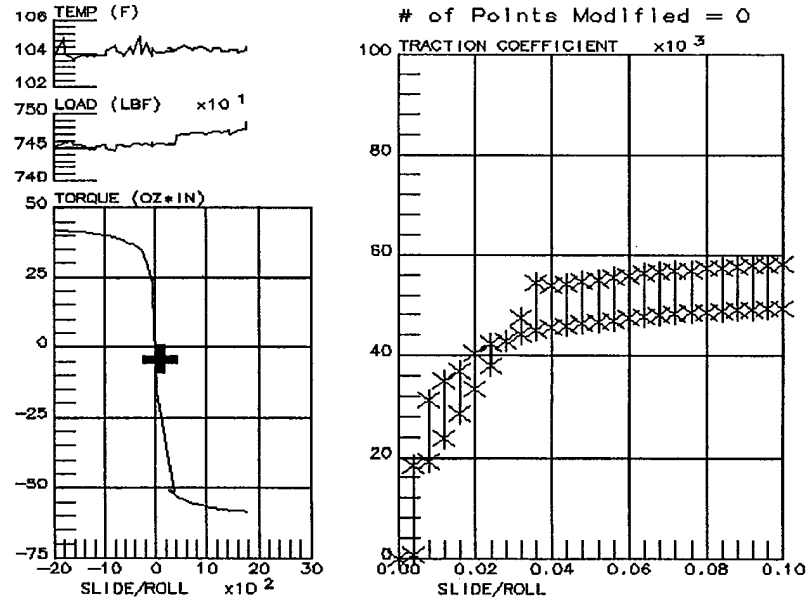
BC 89-126 Coray 100 used #34
100F 23LBF 283RPM 4 FILE: bc100a



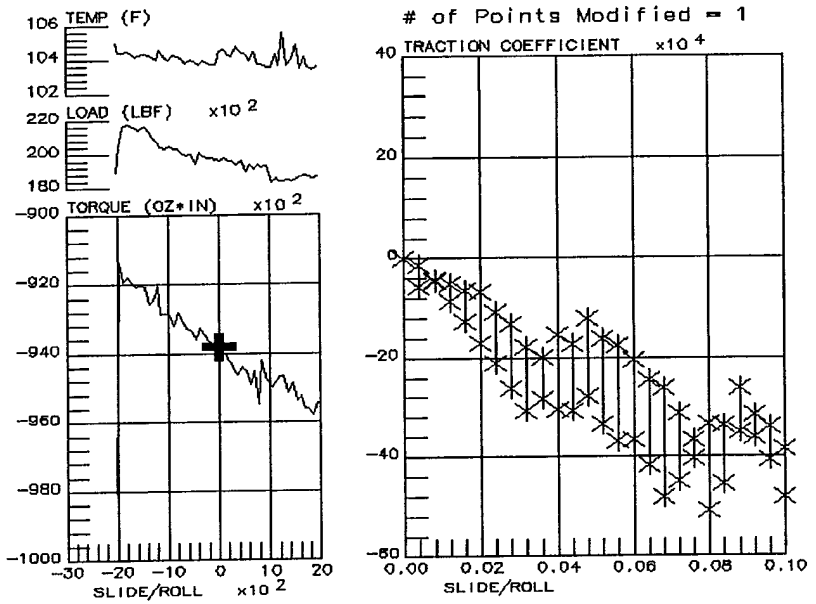
BC 89-126 Coray 100 used #35
100F 44LBF 283RPM 5 FILE: bc100a



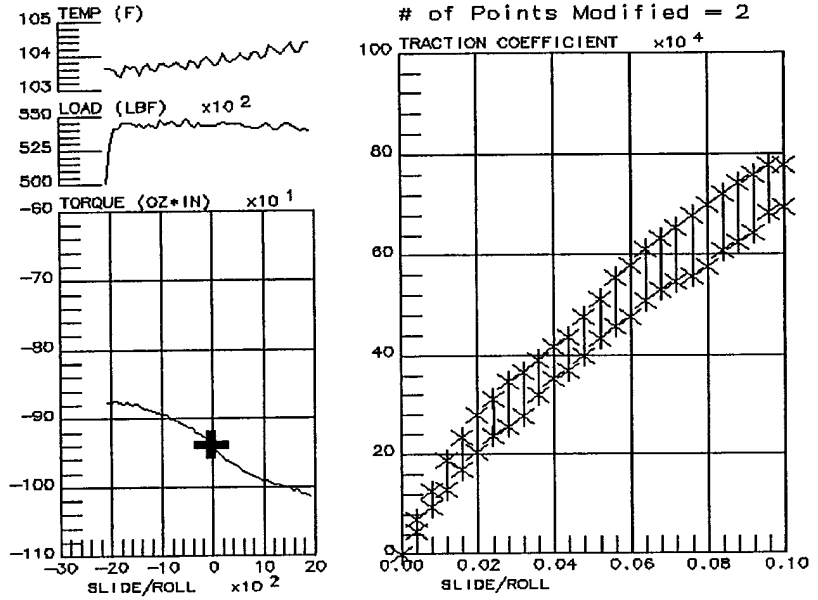
BC 89-126 Coray 100 used #36
100F 75LBF 283RPM 6 FILE: bc100a



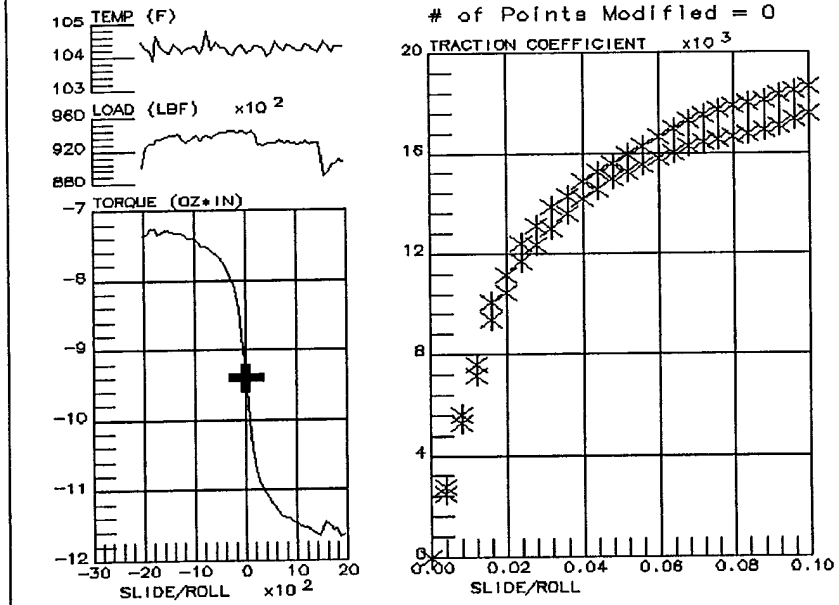
BC 89-126 Coray 100 used #37
100F 1LBF 1273RPM 1 FILE: bc100b



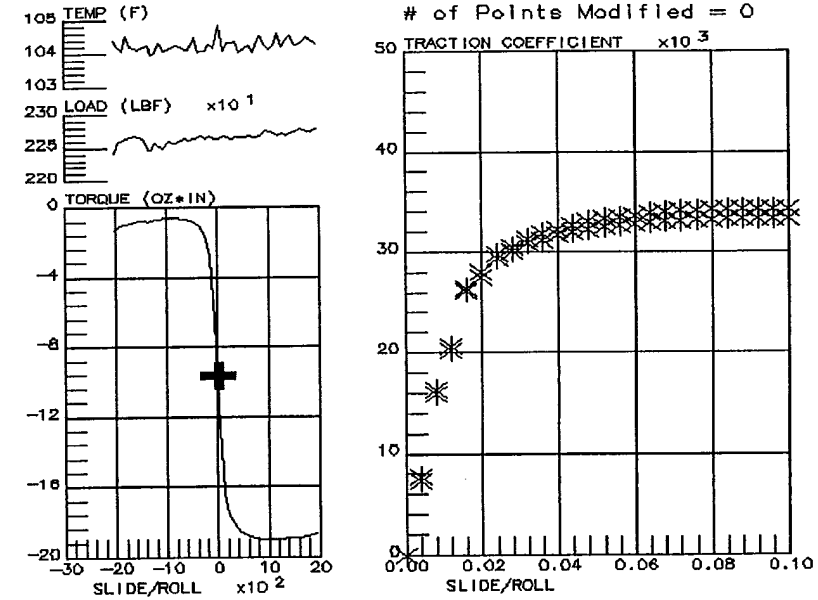
BC 89-126 Coray 100 used #38
100F 5LBF 1273RPM 2 FILE: bc100b



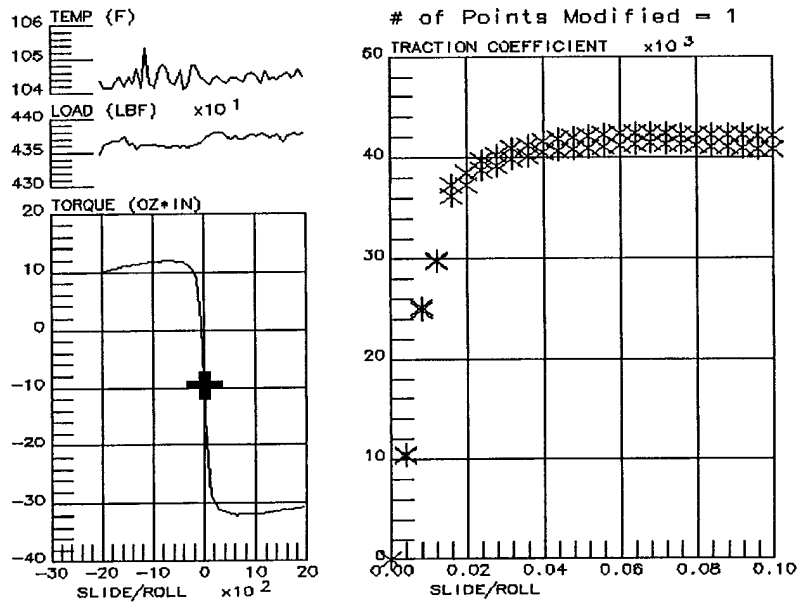
BC 89-126 Coray 100 used #39
100F 9LBF 1273RPM 3 FILE: bc100b



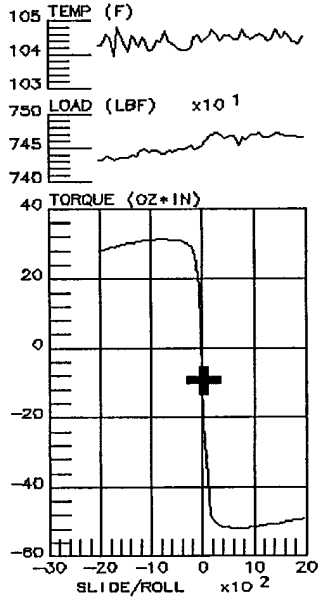
BC 89-126 Coray 100 used #40
100F 23LBF 1273RPM 4 FILE: bc100b

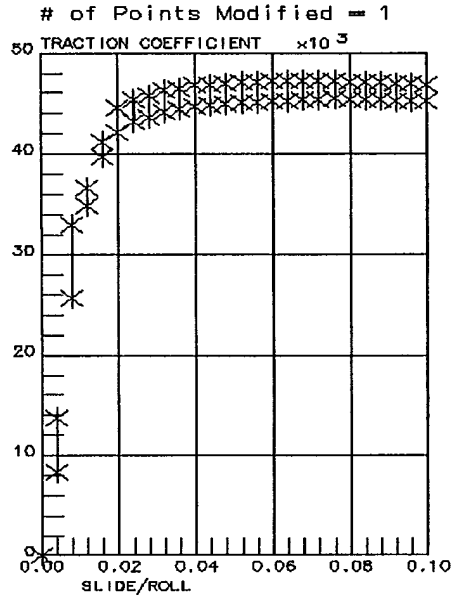


BC 89-126 Coray 100 used #41
100F 44LBF 1273RPM 5 FILE: bc100b

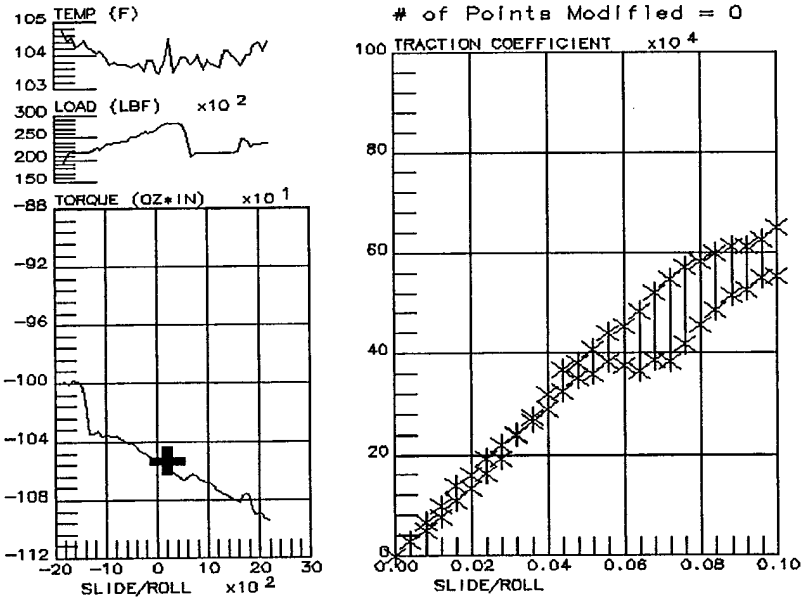


BC 89-126 Coray 100 used #42
100F 75LBF 1273RPM 6 FILE: bc100b

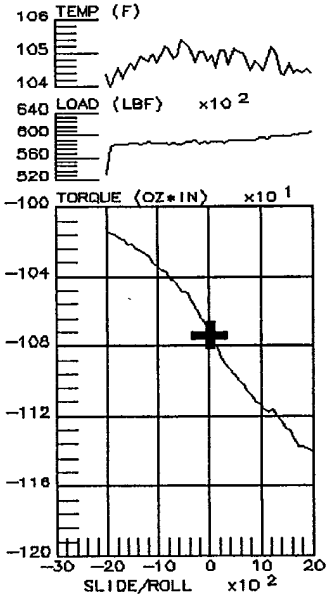


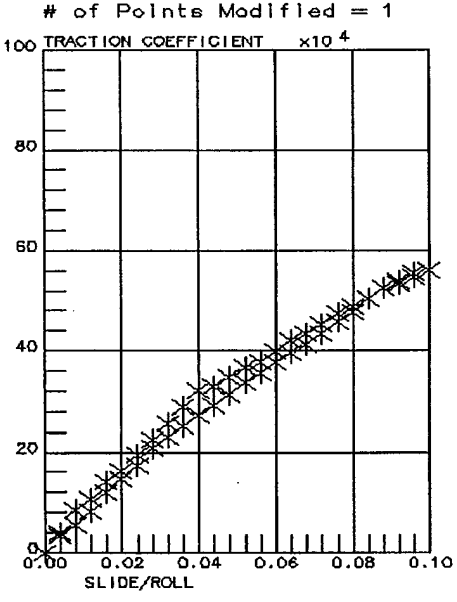


BC 89-126 Coray 100 used #43
100F 1LBF 2546RPM 1 FILE: bc100c

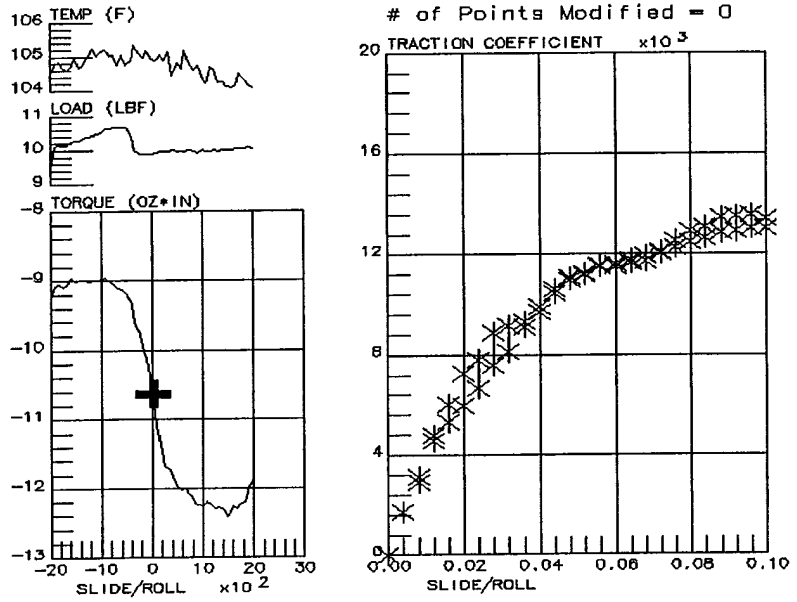


BC 89-126 Coray 100 used #44
100F 5LBF 2546RPM 2 FILE: bc100c

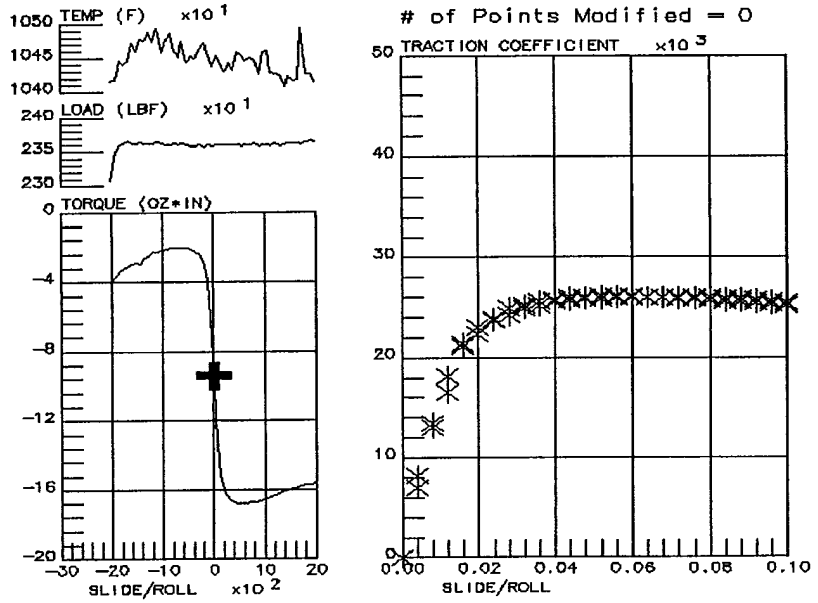




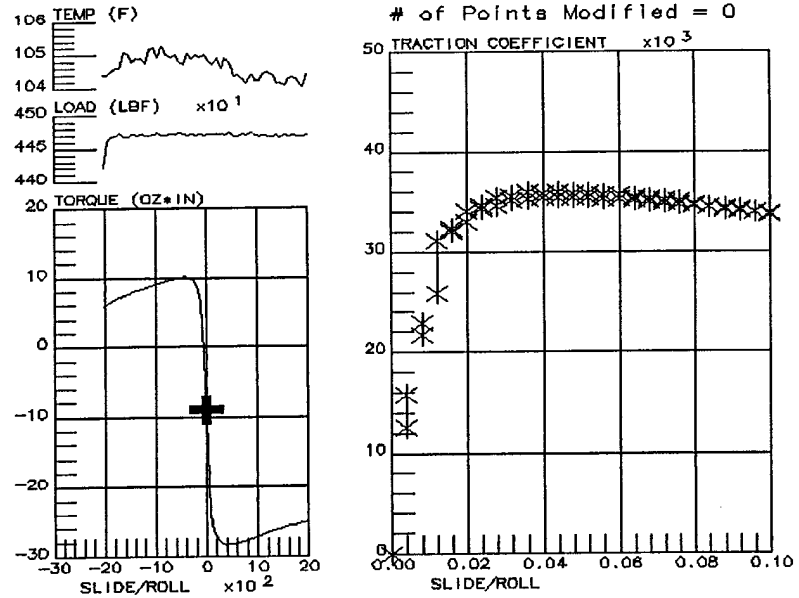
BC 89-126 Coray 100 used #45
100F 9LBF 2546RPM 3 FILE: bc100c



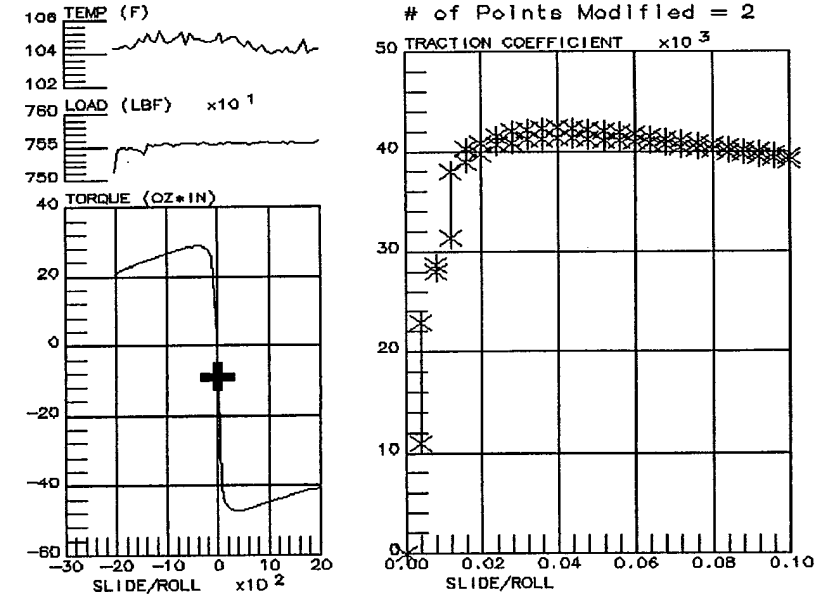
BC 89-126 Coray 100 used #46
100F 23LBF 2546RPM 4 FILE: bc100c



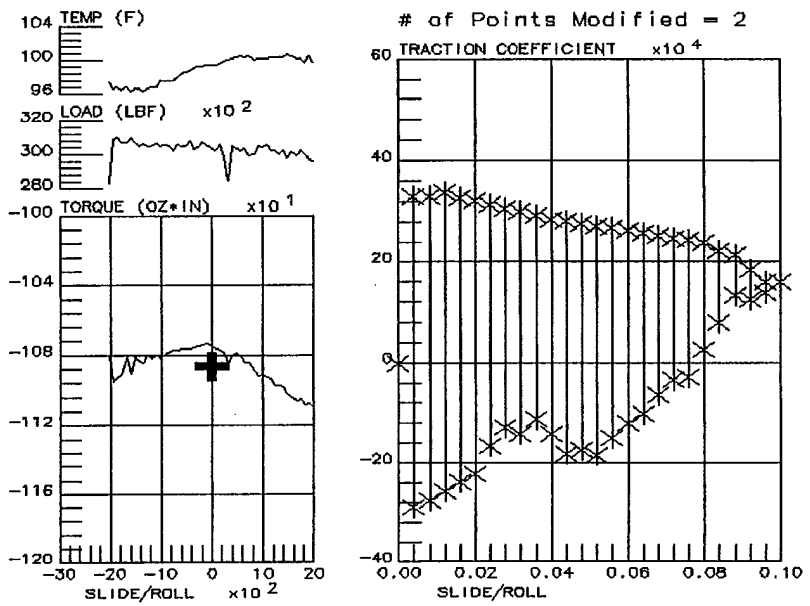
BC 89-126 Coray 100 used #47
100F 44LBF 2546RPM 5 FILE: bc100c



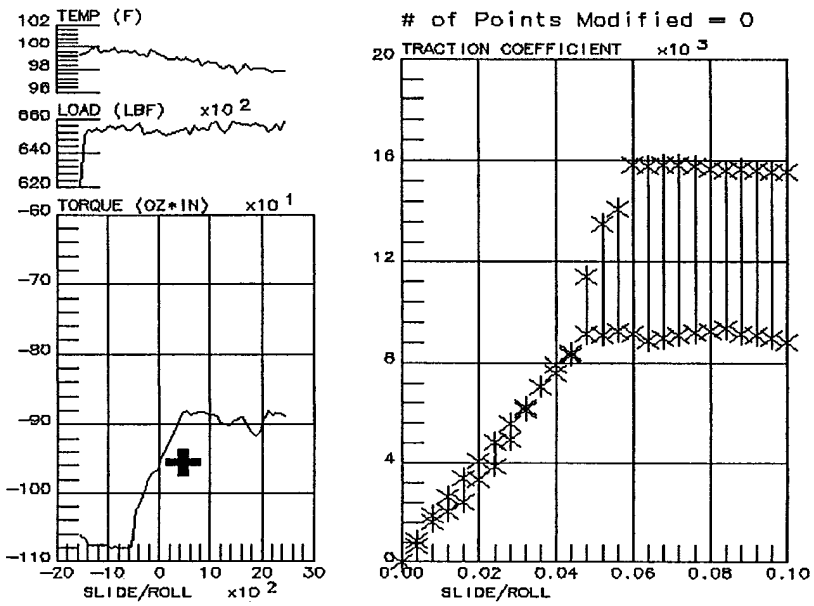
BC 89-126 Coray 100 used #48
100F 75LBF 2546RPM 6 FILE: bc100c



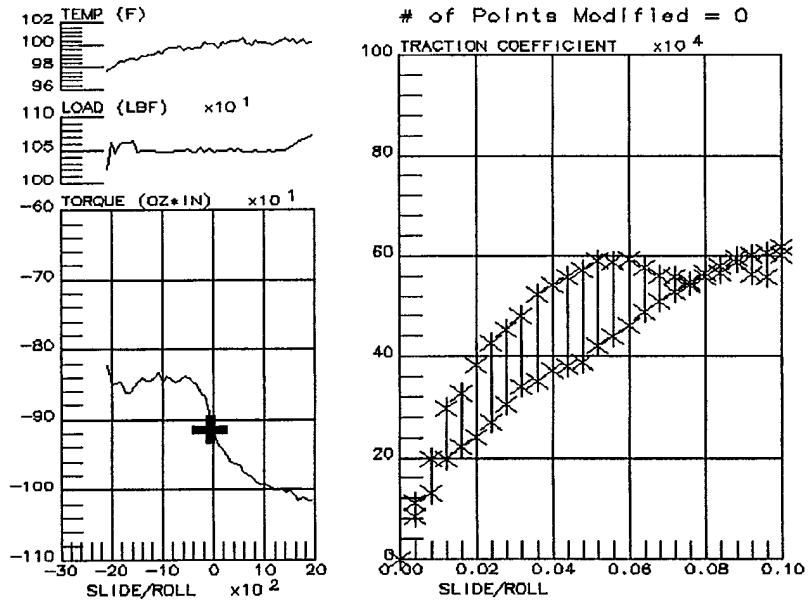
BC 89-126 Coray 100 used #49
100F 1LBF 3820RPM 1 FILE: bc100d



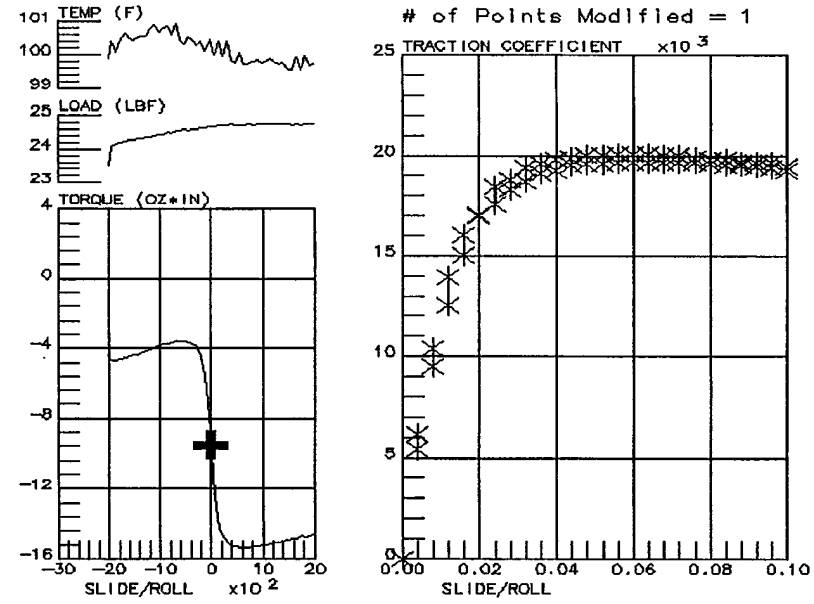
BC 89-126 Coray 100 used #50
100F 5LBF 3820RPM 2 FILE: bc100d



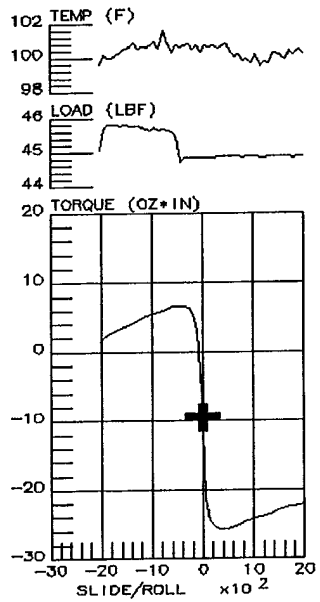
BC 89-126 Coray 100 used #51
100F 9LBF 3820RPM 3 FILE: bc100d



BC 89-126 Coray 100 used #52
100F 23LBF 3820RPM 4 FILE: bc100d



BC 89-126 Coray 100 used #53
100F 44LBF 3820RPM 5 FILE: bc100d



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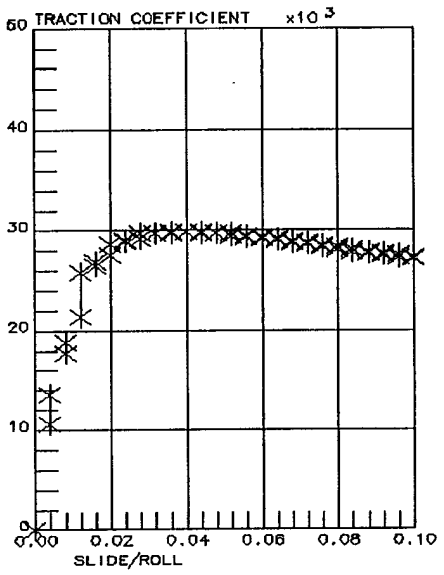
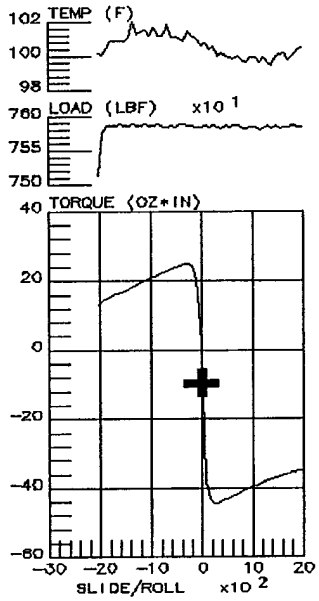
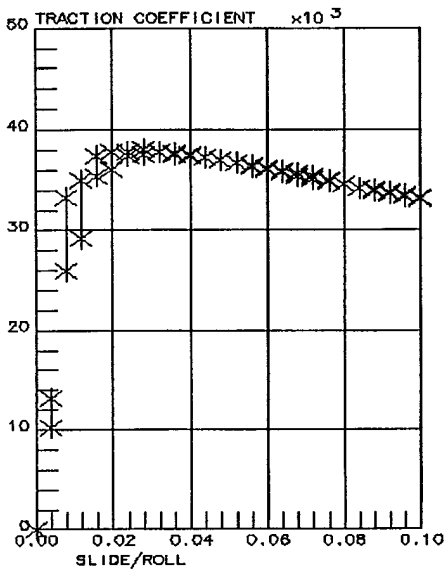


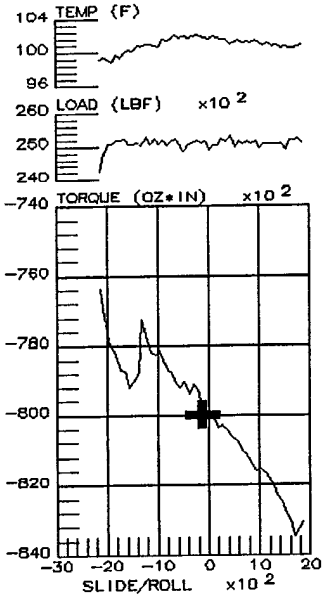
BC 89-126 Coray 100 used #54
100F 75LBF 3820RPM 6 FILE: bc100d



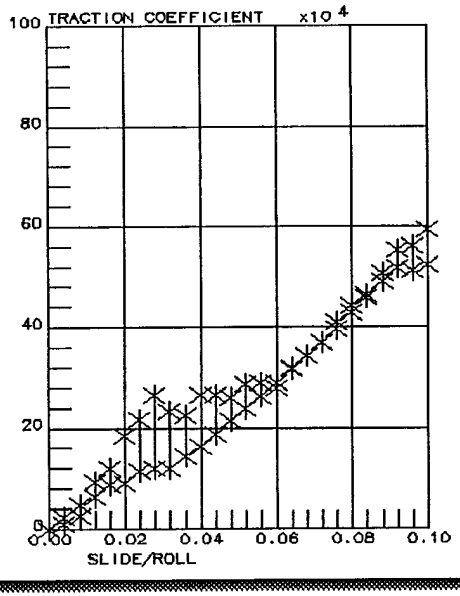
# of Points Modified = 0



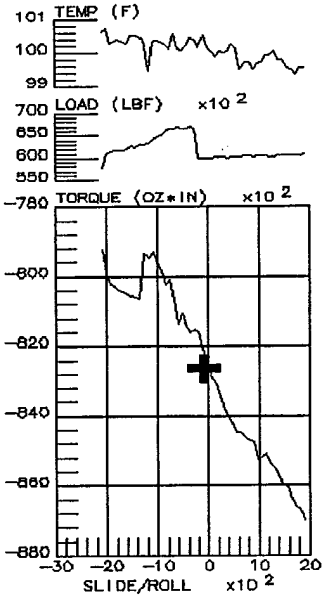
BC 89-126 Coray 100 used #55
100F 1LBF 5093RPM 1 FILE: bc100e



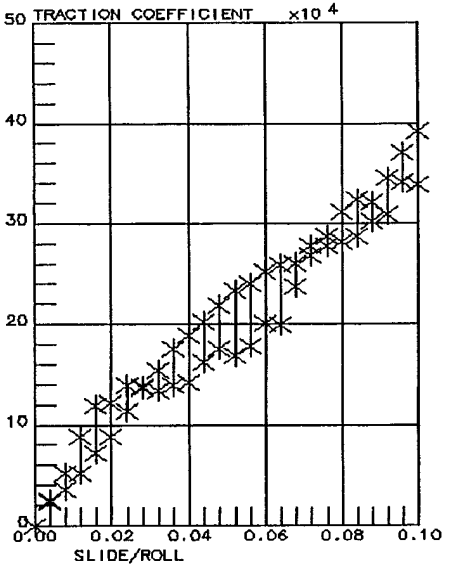
# of Points Modified = 1



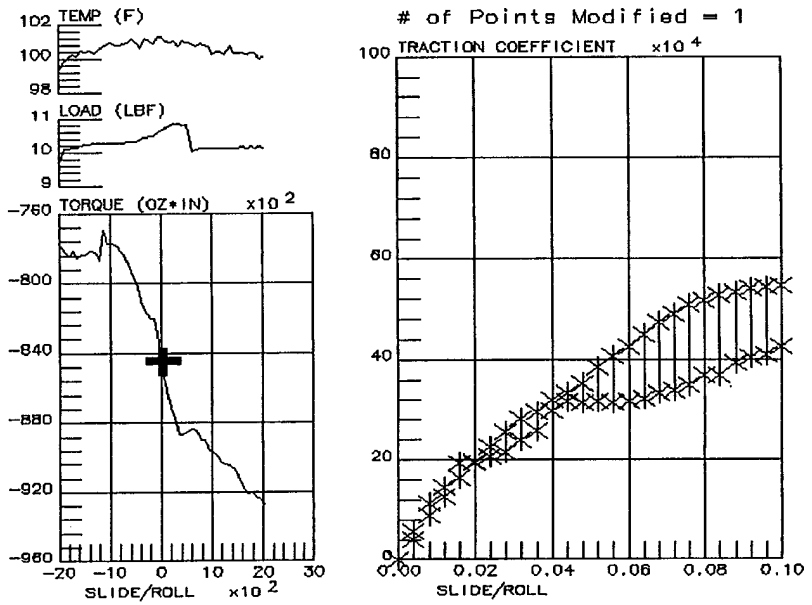
BC 89-126 Coray 100 used #56
100F 5LBF 5093RPM 2 FILE: bc100e



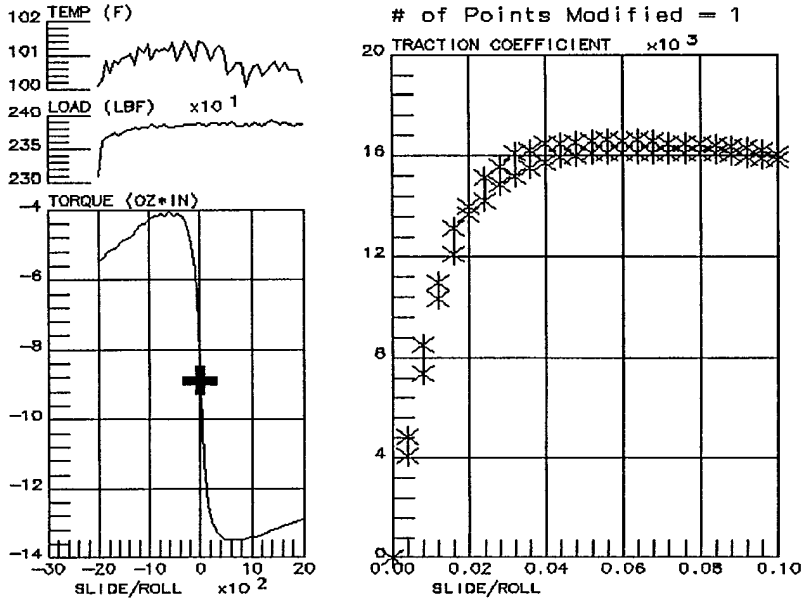
# of Points Modified = 1



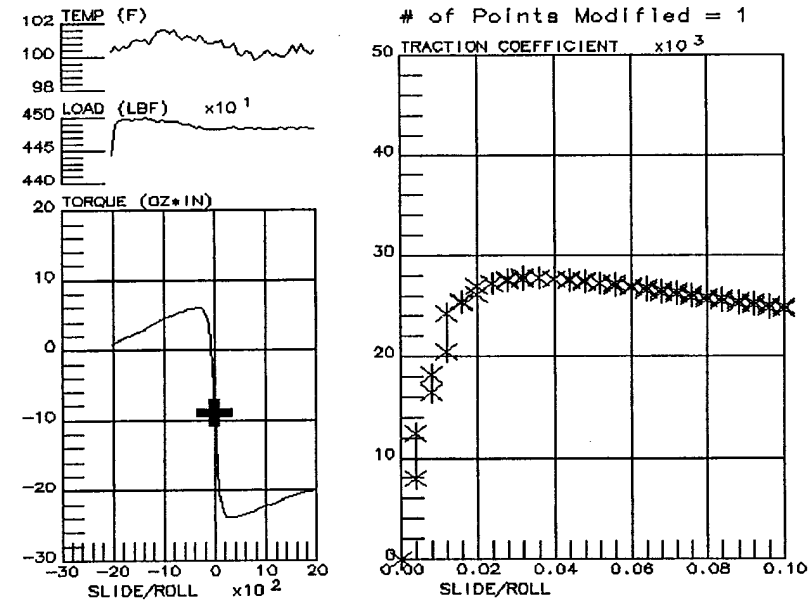
BC 89-126 Coray 100 used #57
100F 9LBF 5093RPM 3 FILE: bc100e



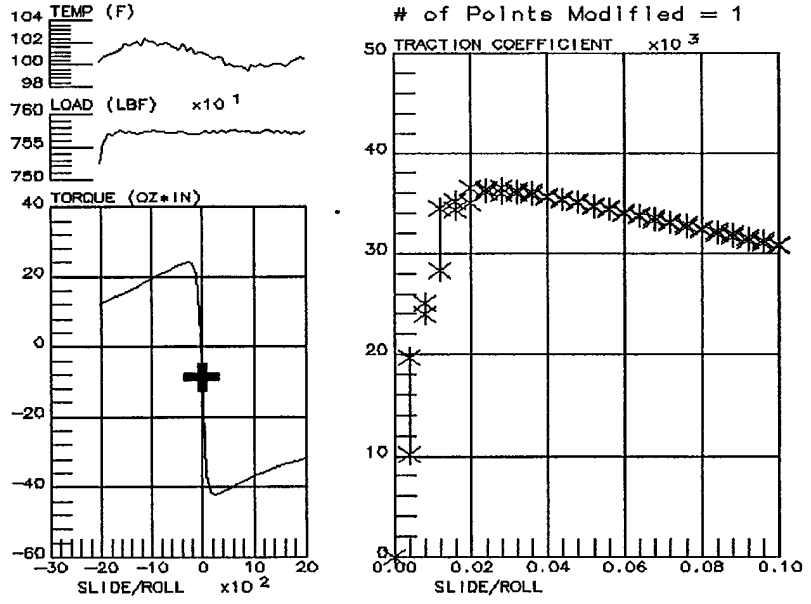
BC 89-126 Coray 100 used #58
100F 23LBF 5093RPM 4 FILE: bc100e

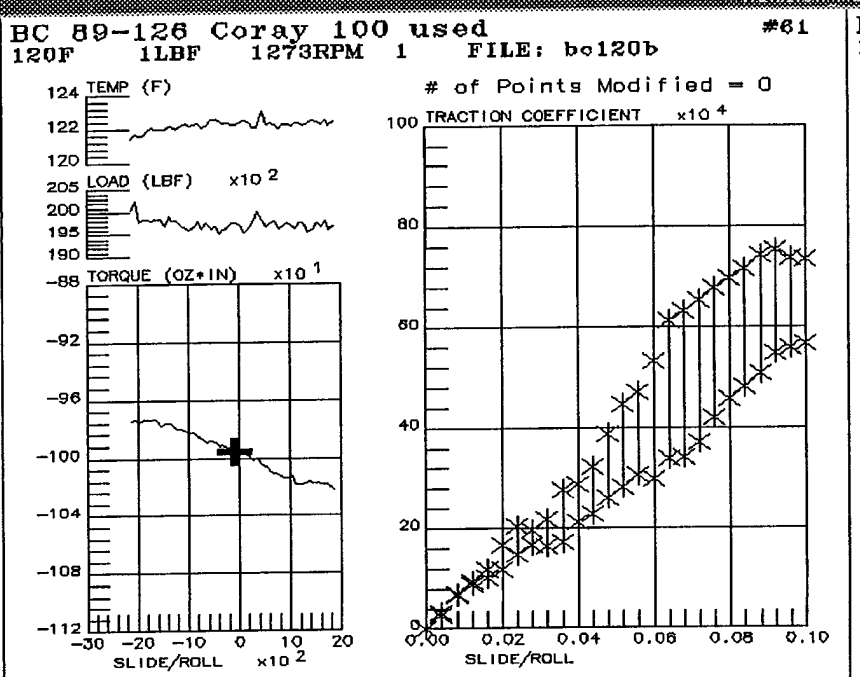


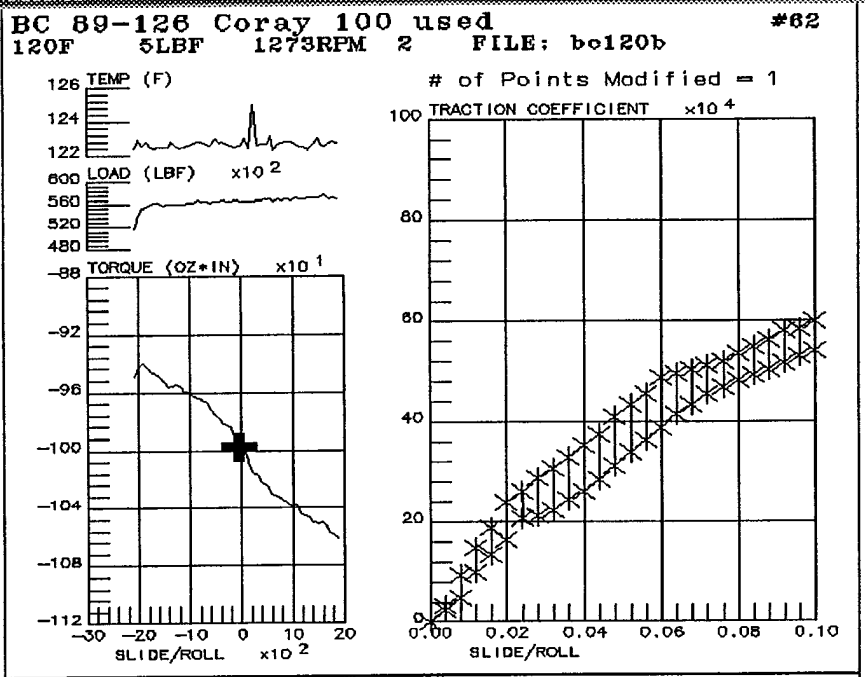
BC 89-126 Coray 100 used #59
100F 44LBF 5093RPM 5 FILE: bc100e

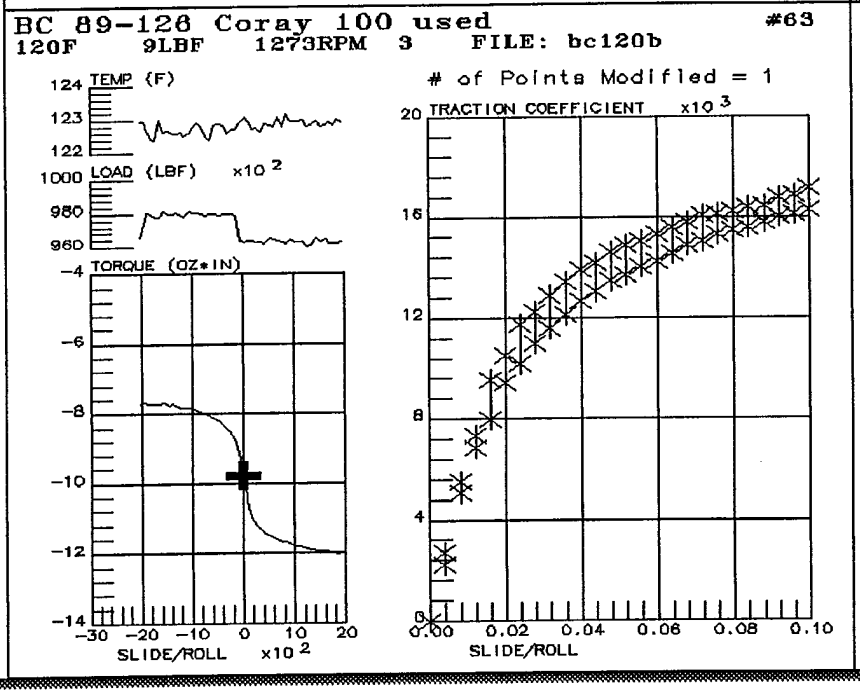


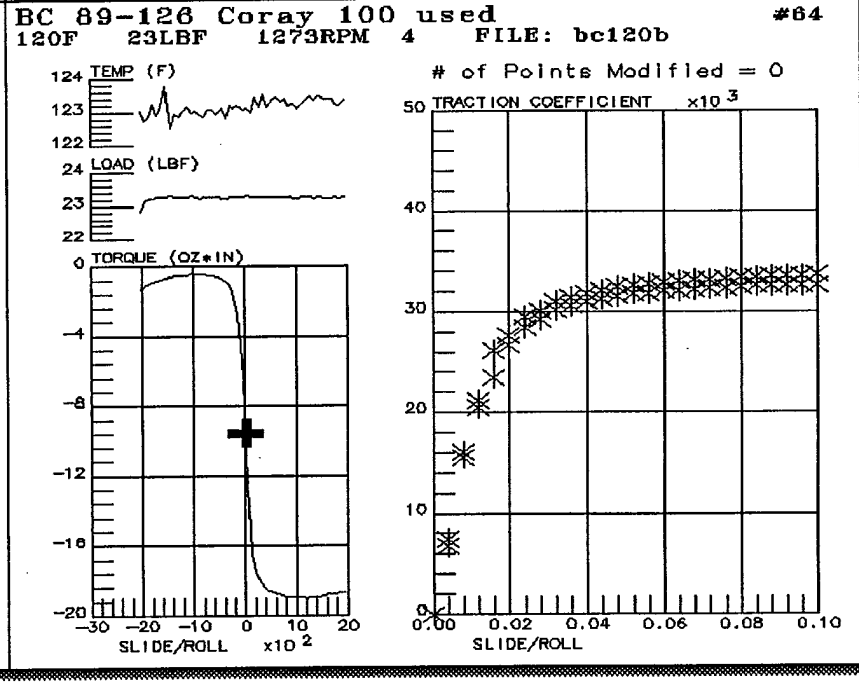
BC 89-126 Coray 100 used #60
100F 75LBF 5093RPM 6 FILE: bc100e



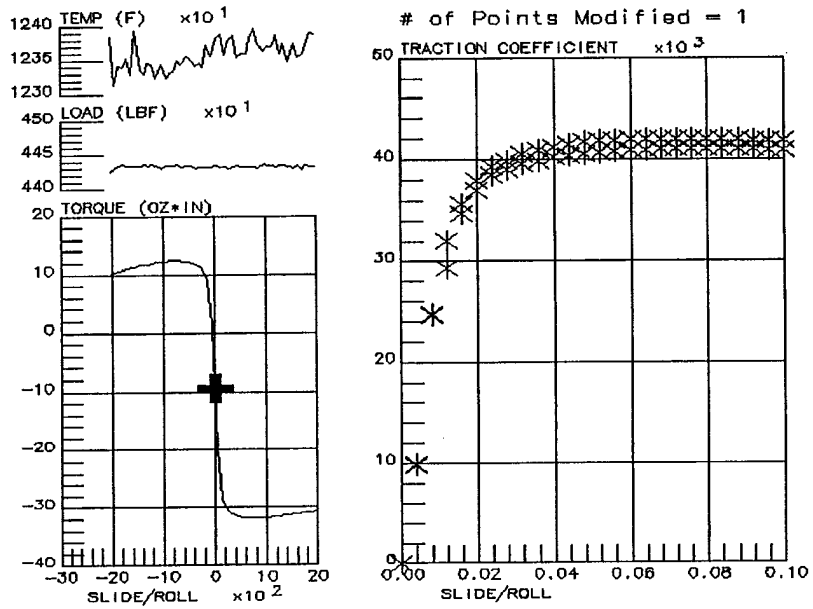

BC 89-126 Coray 100 used #61
120F 1LBF 1273RPM 1 FILE: bc120b
TEMP (F)
LOAD (LBF) x10 2
TORQUE (OZ*IN) x10 1
SLIDE/ROLL x10 2
# of Points Modified = 0
TRACTION COEFFICIENT x10 4
SLIDE/ROLL


BC 89-126 Coray 100 used #62
120F 5LBF 1273RPM 2 FILE: bc120b
TEMP (F)
LOAD (LBF) x10 2
TORQUE (OZ*IN) x10 1
SLIDE/ROLL x10 2
# of Points Modified = 1
TRACTION COEFFICIENT x10 4
SLIDE/ROLL

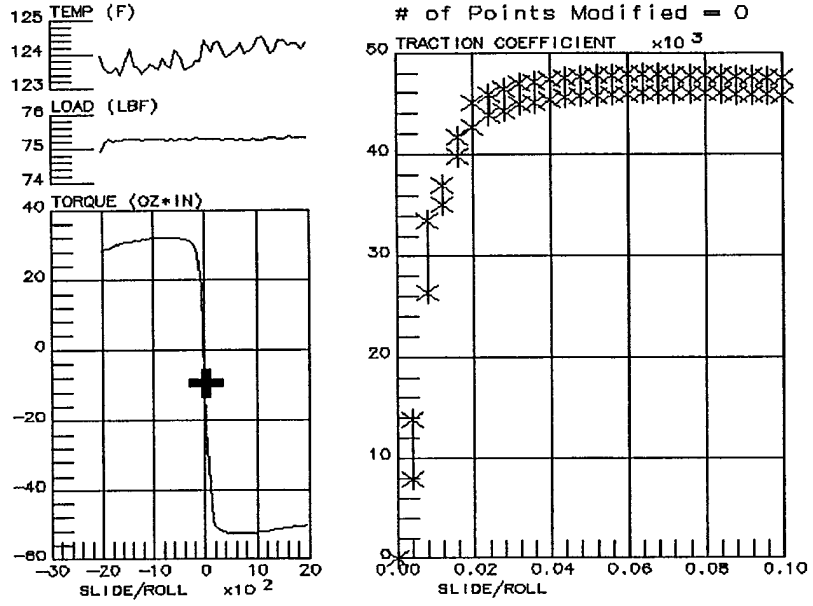

BC 89-126 Coray 100 used #63
120F 9LBF 1273RPM 3 FILE: bc120b
TEMP (F)
LOAD (LBF) x10 2
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
# of Points Modified = 1
TRACTION COEFFICIENT x10 3
SLIDE/ROLL


BC 89-126 Coray 100 used #64
120F 23LBF 1273RPM 4 FILE: bc120b
TEMP (F)
LOAD (LBF)
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
# of Points Modified = 0
TRACTION COEFFICIENT x10 3
SLIDE/ROLL

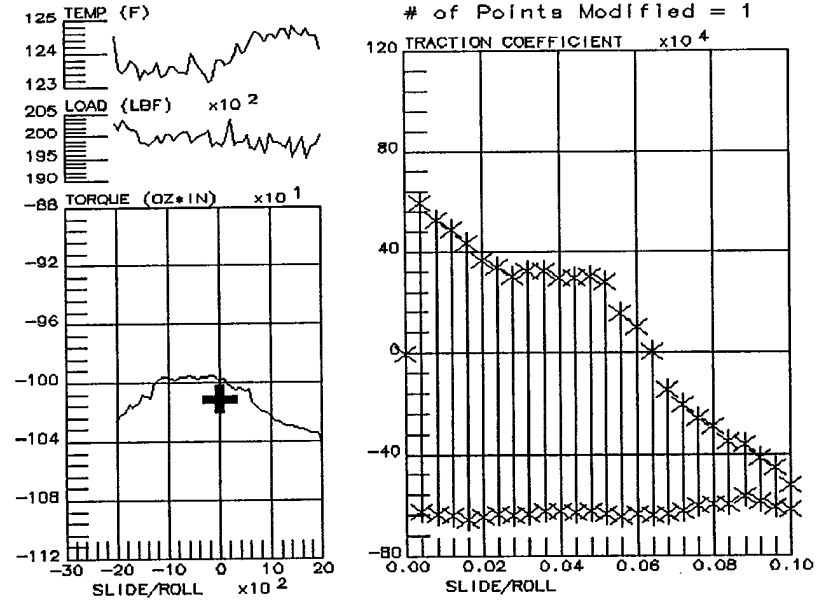
BC 89-126 Coray 100 used #65
120F 44LBF 1273RPM 5 FILE: bc120b



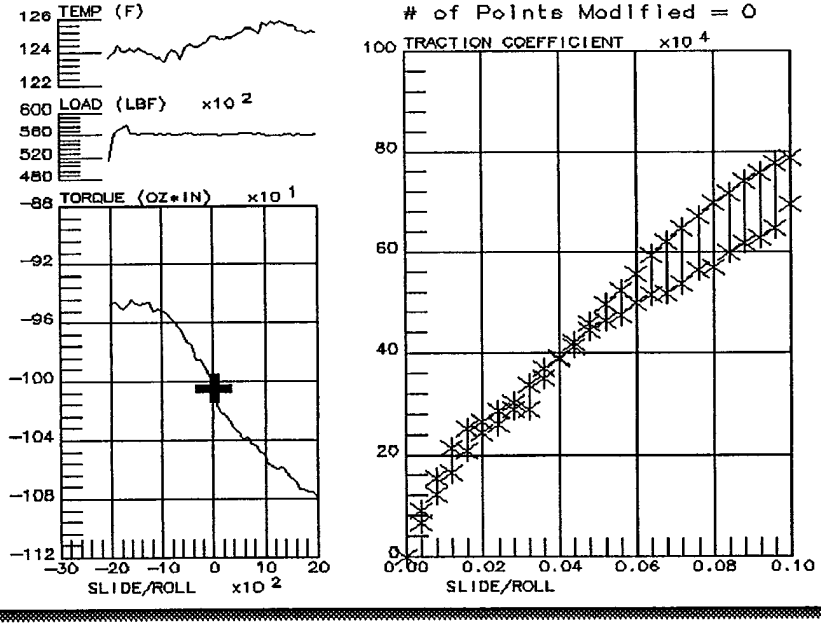
BC 89-126 Coray 100 used #66
120F 75LBF 1273RPM 6 FILE: bc120b



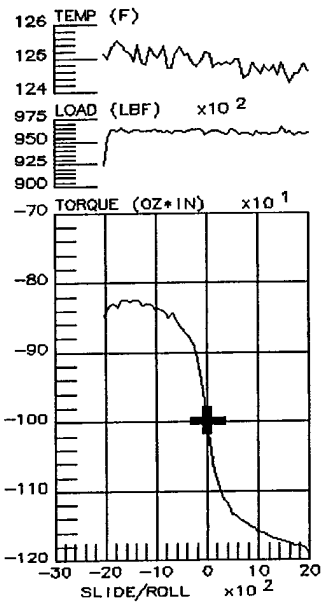
BC 89-126 Coray 100 used #67
120F 1LBF 2546RPM 1 FILE: bc120c



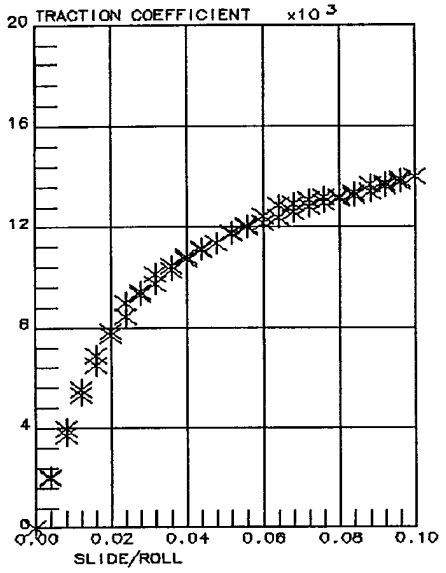
BC 89-126 Coray 100 used #68
120F 5LBF 2546RPM 2 FILE: bc120c



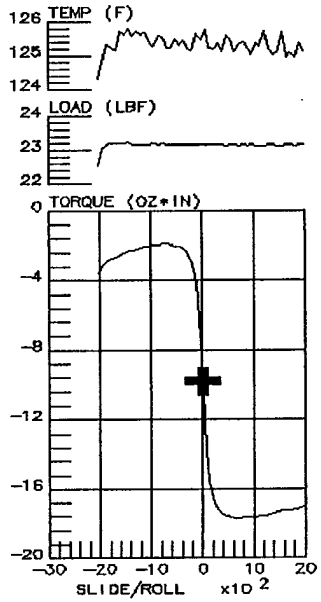
BC 89-126 Coray 100 used #69
120F 9LBF 2546RPM 3 FILE: bc120c



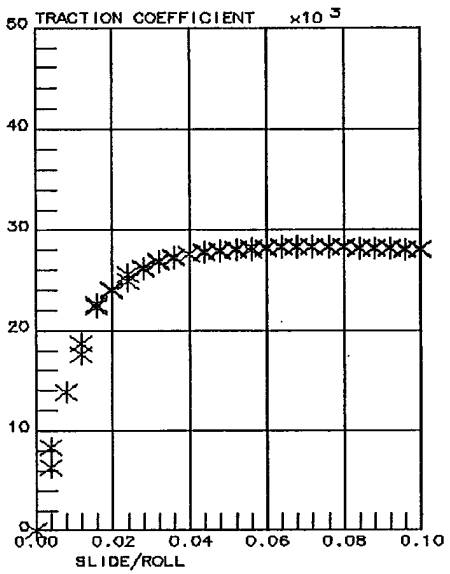
# of Points Modified = 0



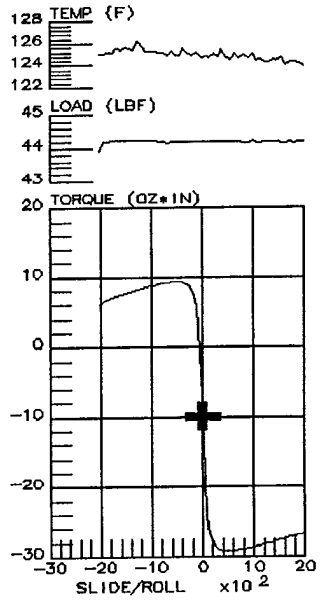
BC 89-126 Coray 100 used #70
120F 23LBF 2546RPM 4 FILE: bc120c



# of Points Modified = 1



BC 89-126 Coray 100 used #71
120F 44LBF 2546RPM 5 FILE: bc120c



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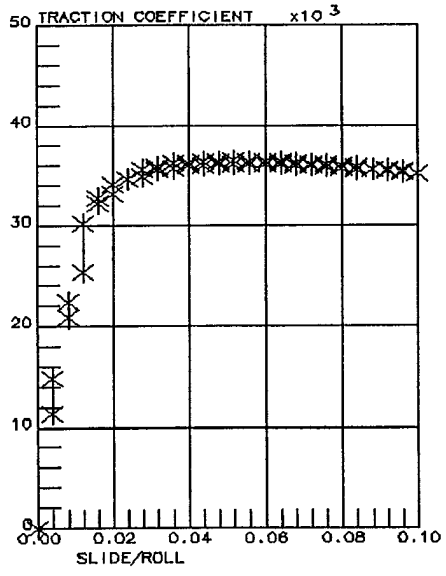
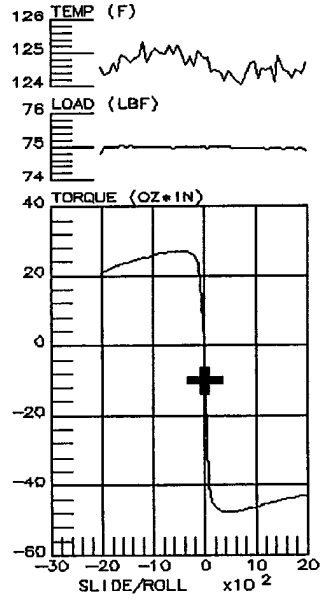


BC 89-126 Coray 100 used #72
120F 75LBF 2546RPM 6 FILE: bc120c



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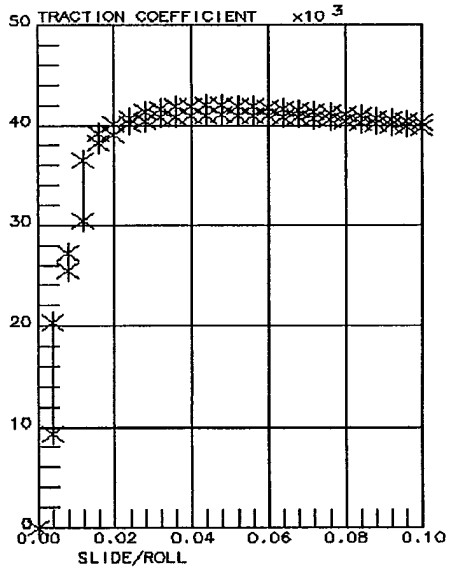
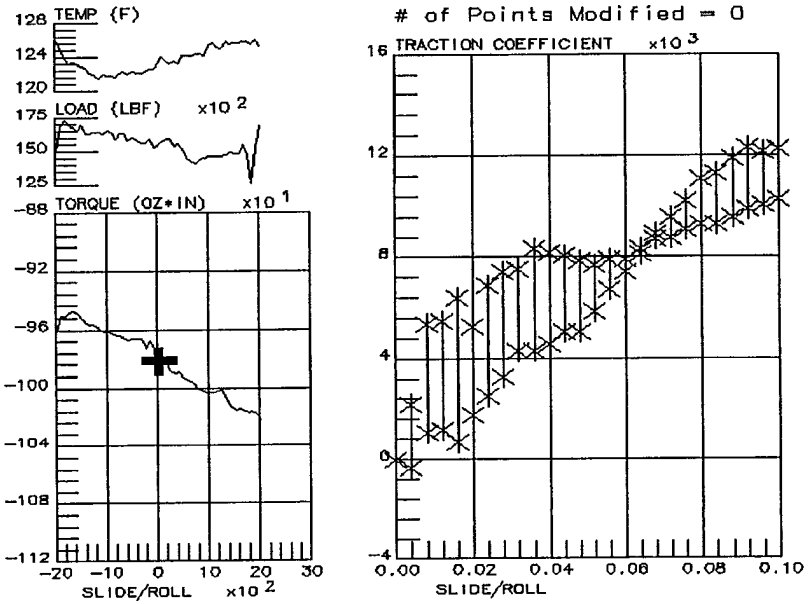


BC 89-126 Coray 100 used #73
120F 1LBF 3820RPM 1 FILE: bc120d



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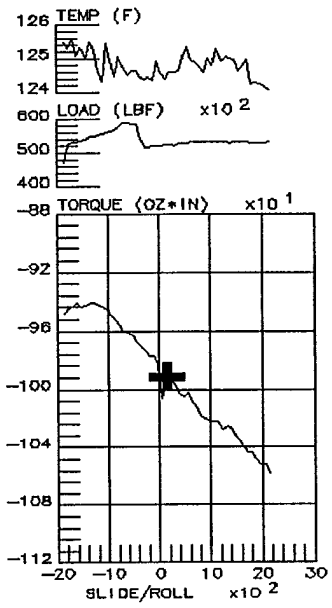
BC 89-126 Coray 100 used #74
120F 5LBF 3820RPM 2 FILE: bc120d



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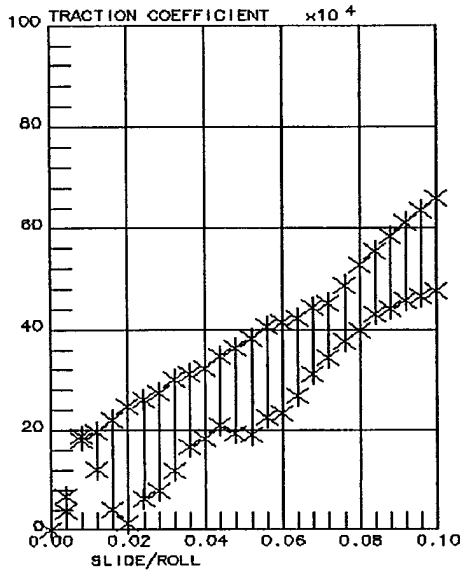
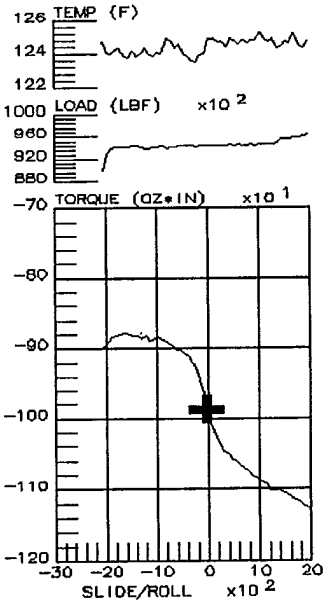


BC 89-126 Coray 100 used #75
120F 9LBF 3820RPM 3 FILE: bc120d



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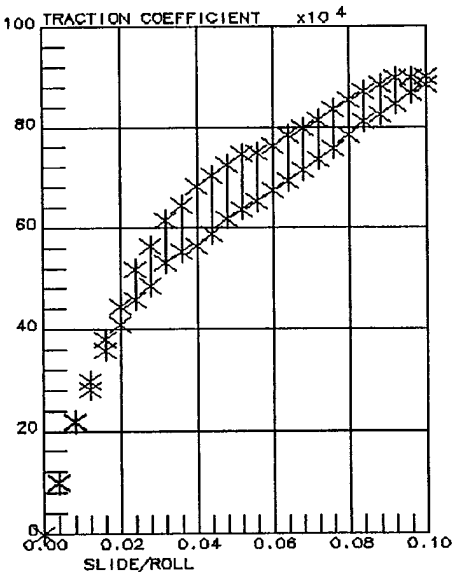
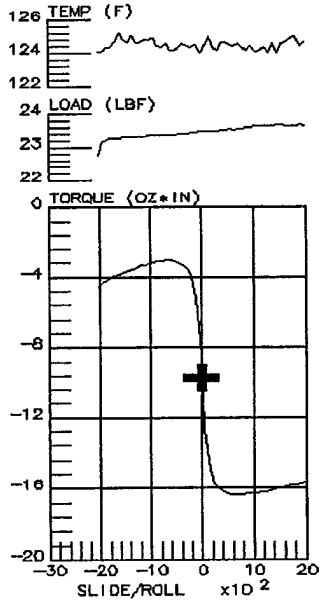


BC 89-126 Coray 100 used #76
120F 23LBF 3820RPM 4 FILE: bc120d



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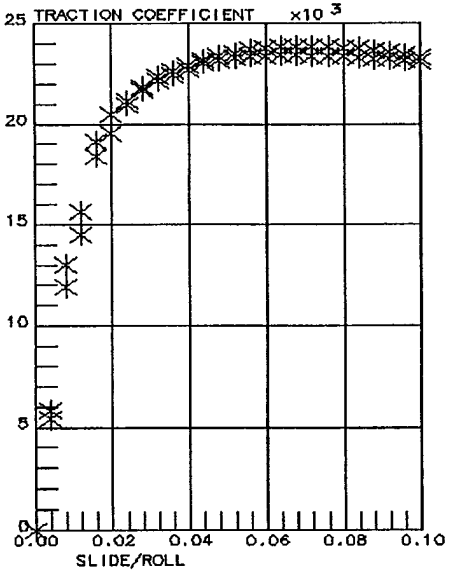
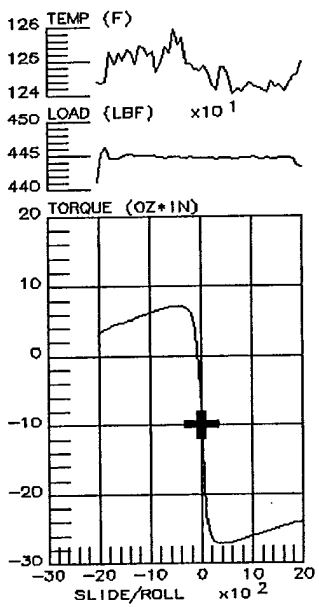
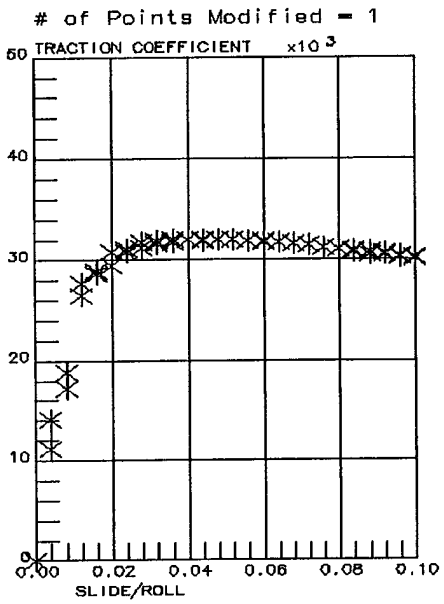
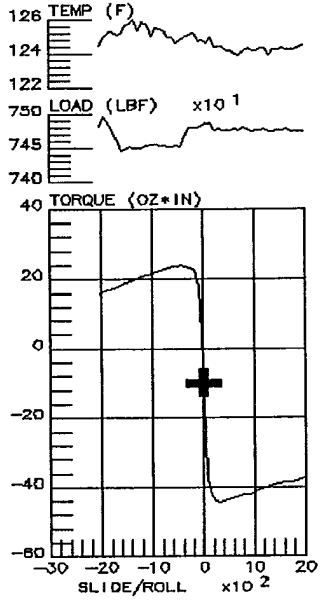


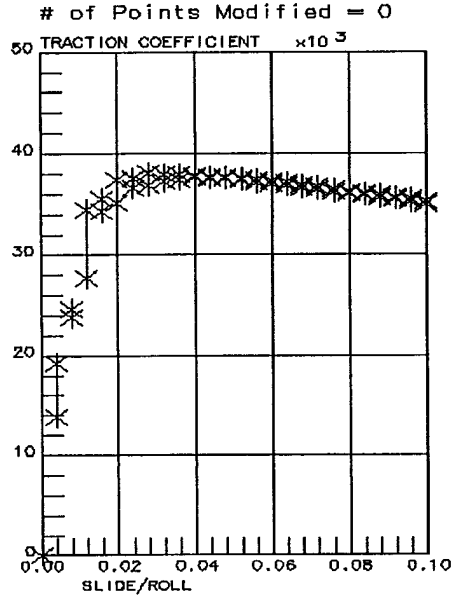
BC 89-126 Coray 100 used #77
120F 44LBF 3820RPM 5 FILE: bc120d



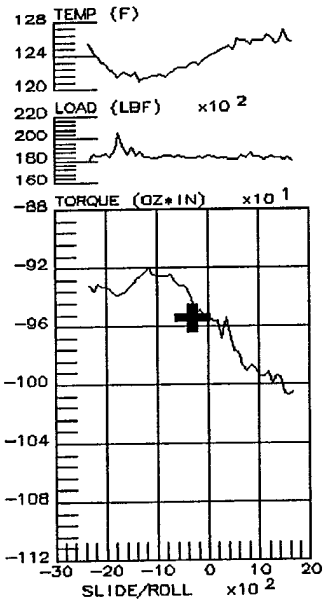


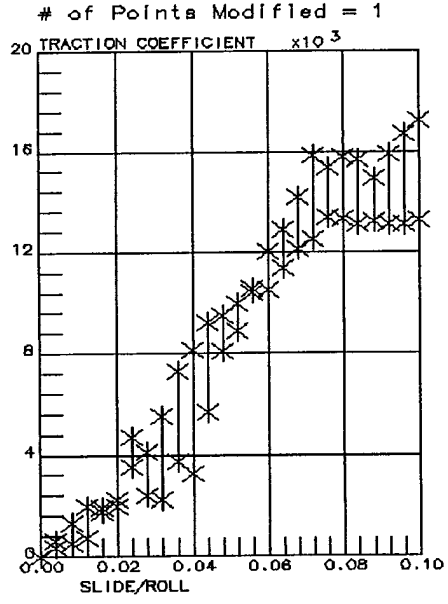
BC 89-126 Coray 100 used #78
120F 75LBF 3820RPM 6 FILE: bc120d



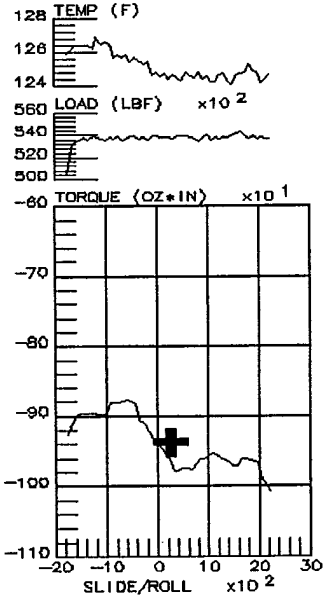


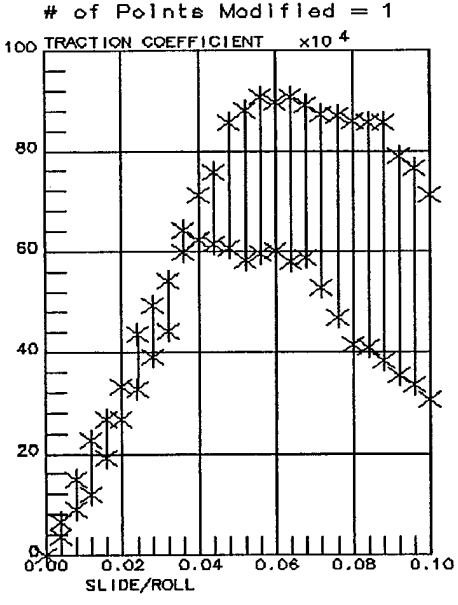
BC 89-126 Coray 100 used #79
120F 1LBF 5093RPM 1 FILE: bc120e



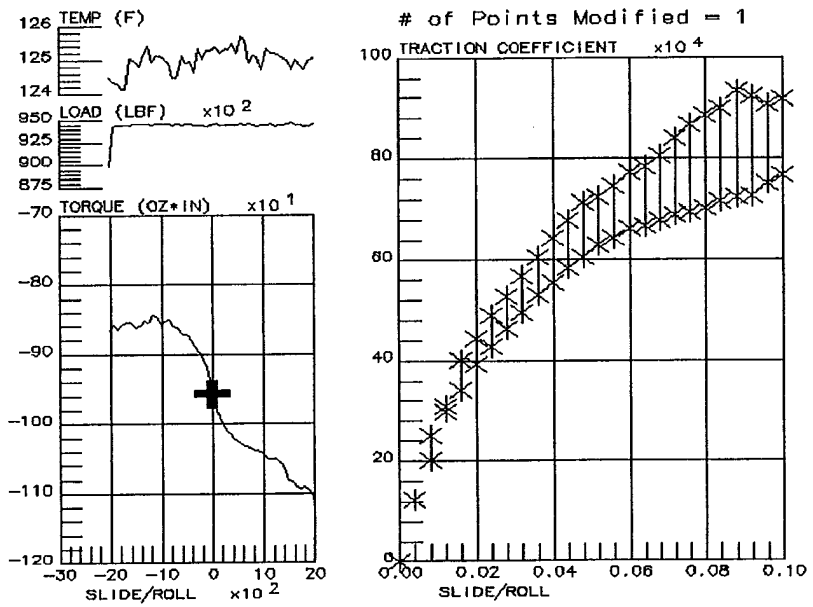


BC 89-126 Coray 100 used #80
120F 5LBF 5093RPM 2 FILE: bc120e

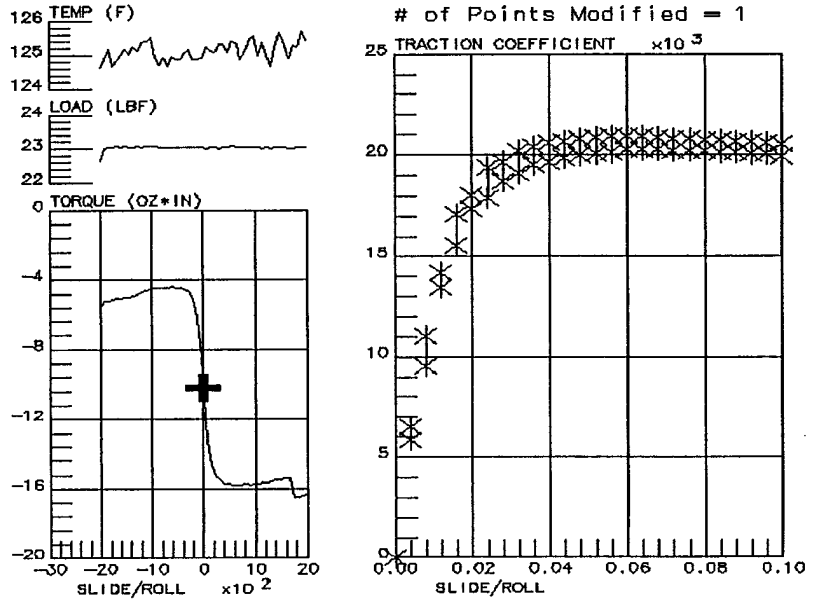




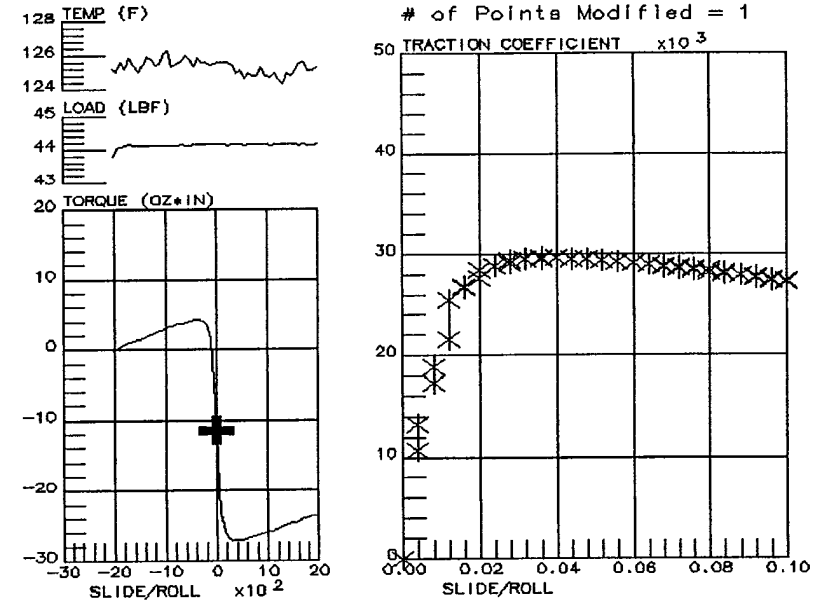
BC 89-126 Coray 100 used #81
120F 9LBF 5093RPM 3 FILE: bc120e



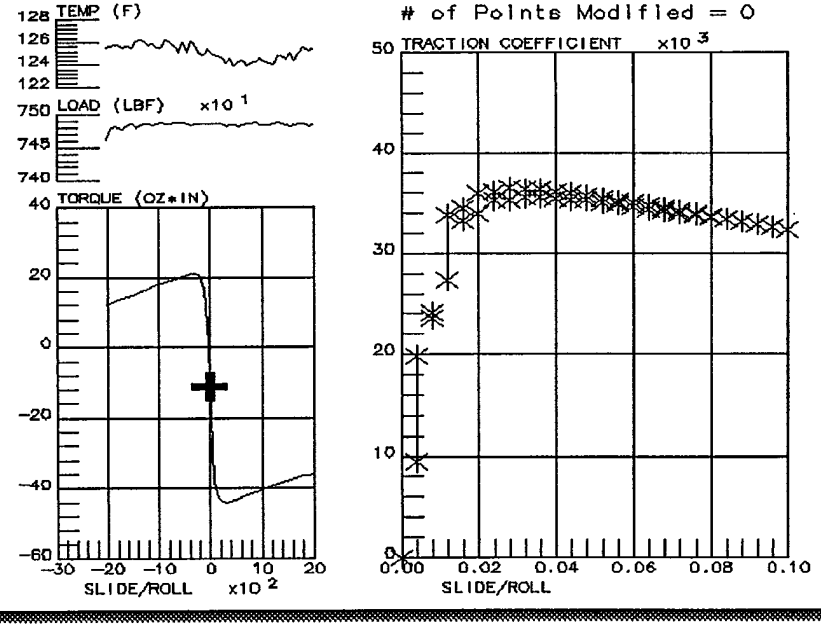
BC 89-126 Coray 100 used #82
120F 23LBF 5093RPM 4 FILE: bc120e



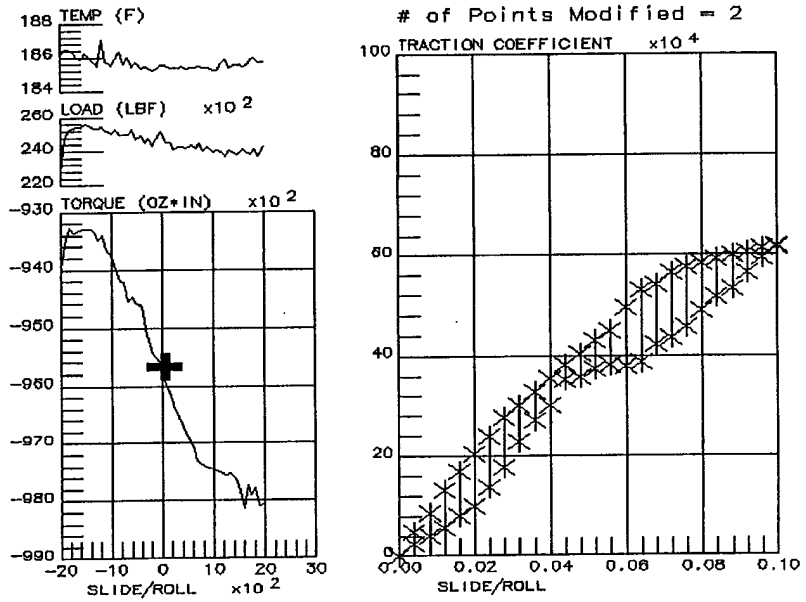
BC 89-126 Coray 100 used #83
120F 44LBF 5093RPM 5 FILE: bc120e



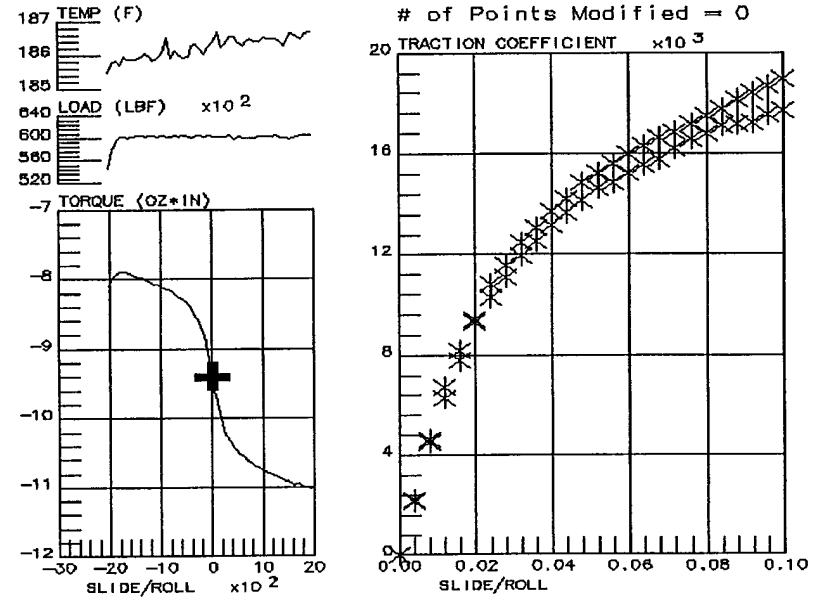
BC 89-126 Coray 100 used #84
120F 75LBF 5093RPM 6 FILE: bc120e



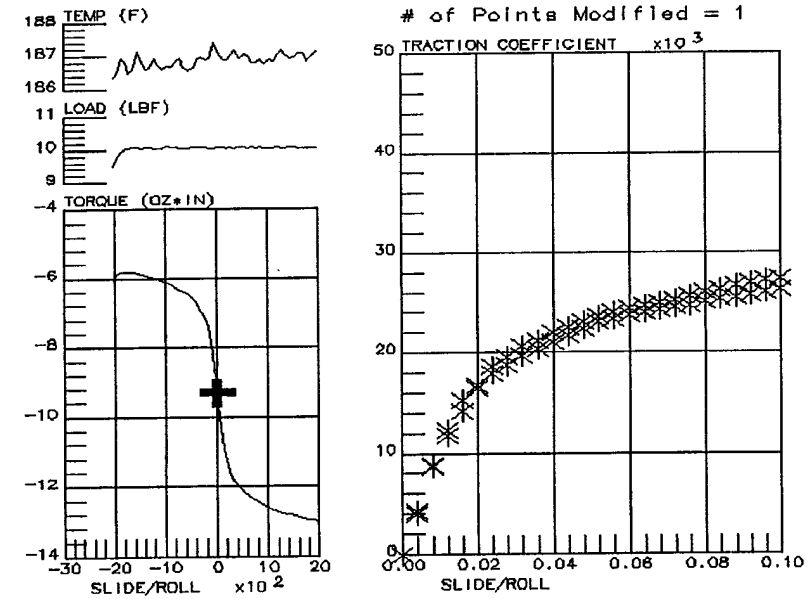
BC 89-126 Coray 100 used #85
180F 1LBF 1273RPM 1 FILE: bc180b



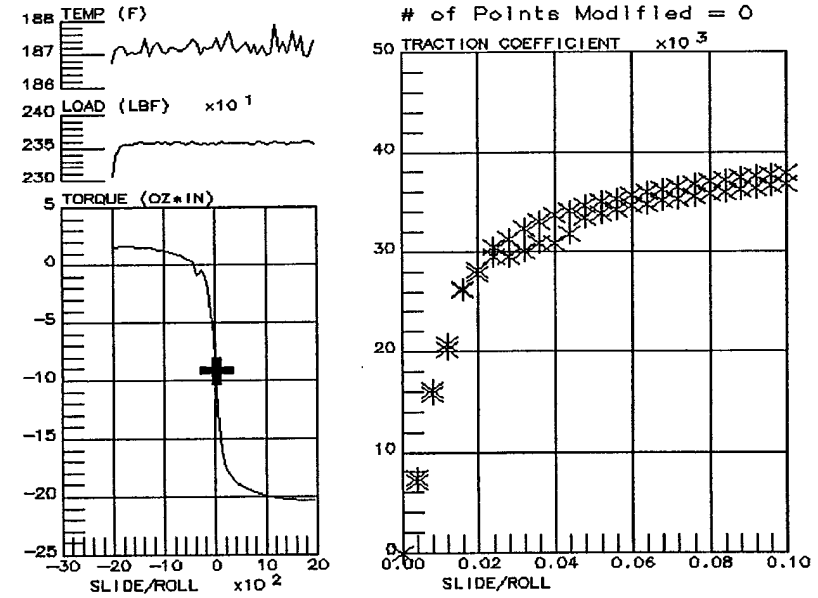
BC 89-126 Coray 100 used #86
180F 5LBF 1273RPM 2 FILE: bc180b



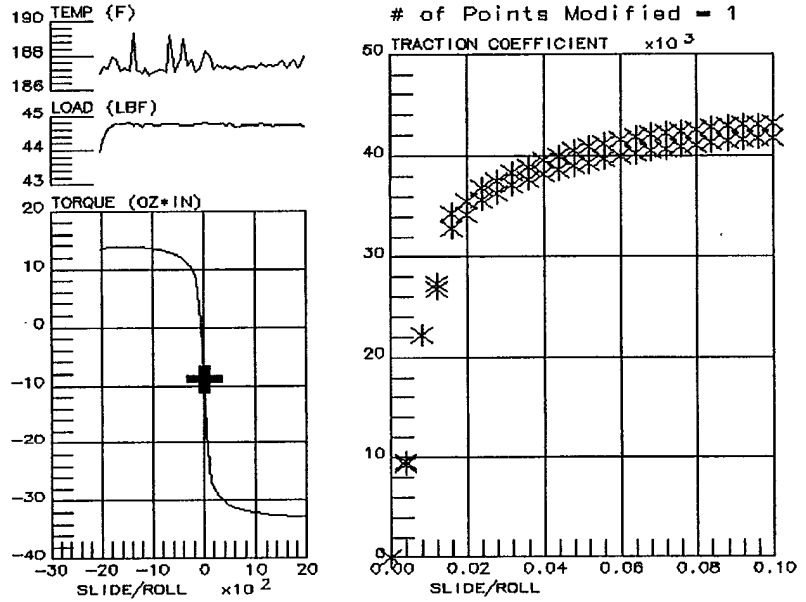
BC 89-126 Coray 100 used #87
180F 9LBF 1273RPM 3 FILE: bc180b



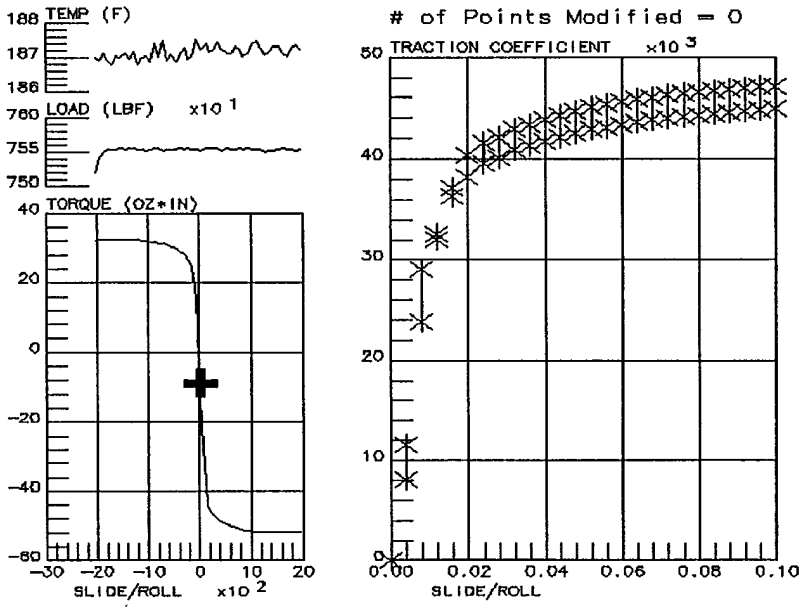
BC 89-126 Coray 100 used #88
180F 23LBF 1273RPM 4 FILE: bc180b



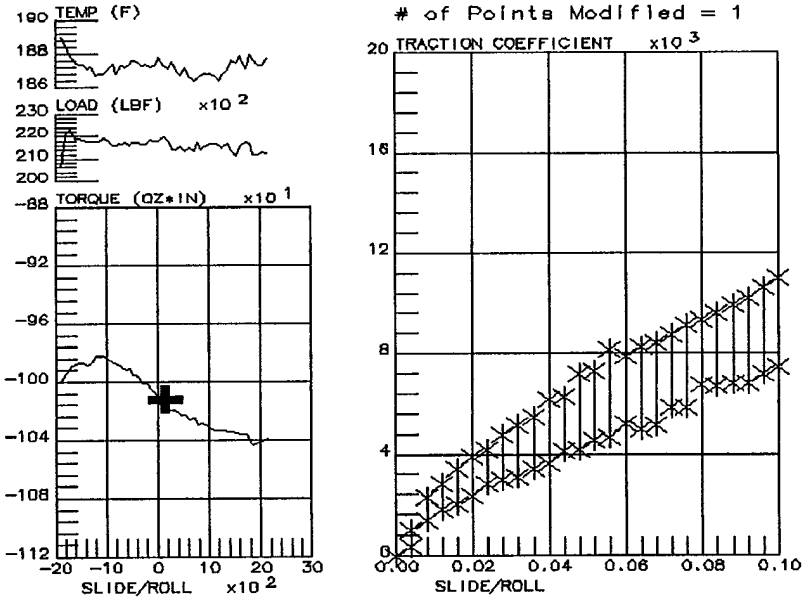
BC 89-126 Coray 100 used #89
180F 44LBF 1273RPM 5 FILE: bc180b



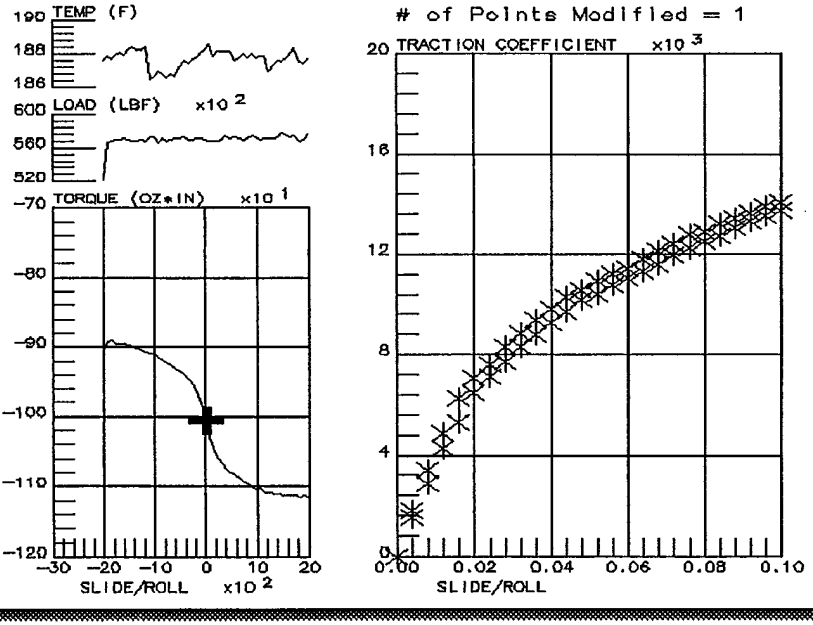
BC 89-126 Coray 100 used #90
180F 75LBF 1273RPM 6 FILE: bc180b



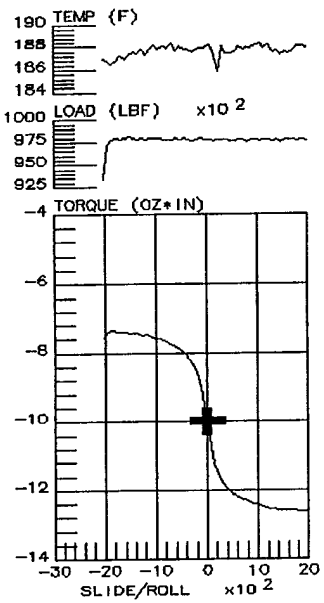
BC 89-126 Coray 100 used #91
180F 1LBF 2546RPM 1 FILE: bc180c

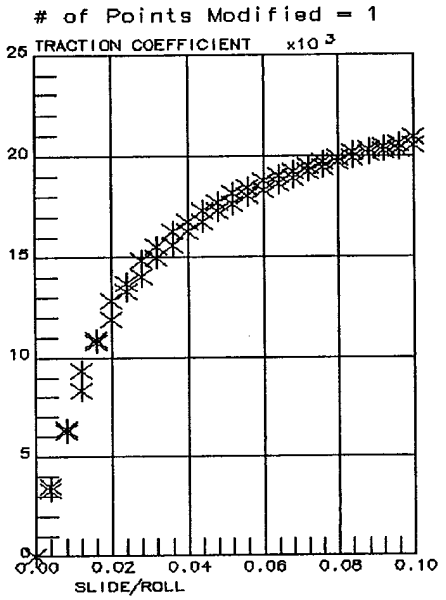


BC 89-126 Coray 100 used #92
180F 5LBF 2546RPM 2 FILE: bc180c

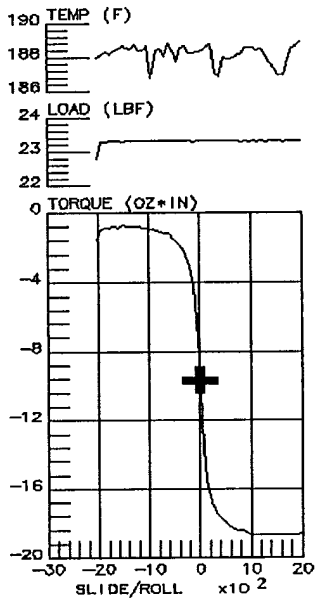


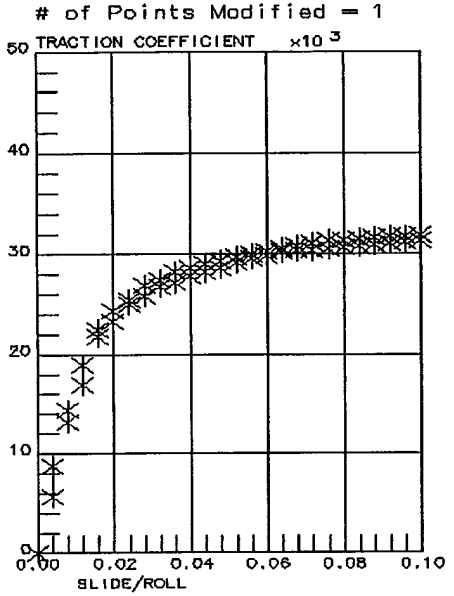
BC 89-126 Coray 100 used #93
180F 9LBF 2546RPM 3 FILE: bc180c



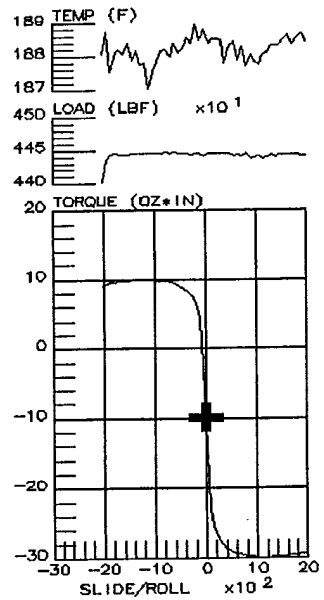


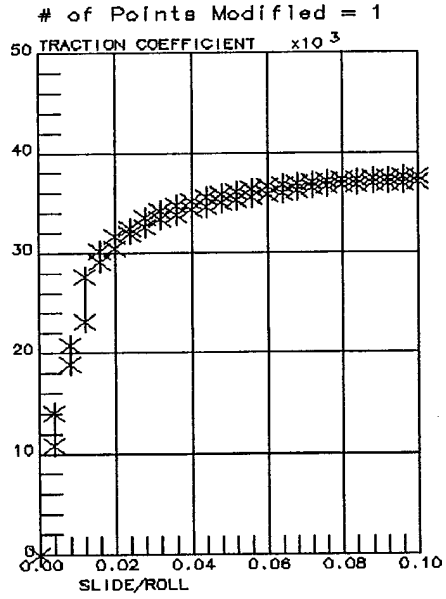
BC 89-126 Coray 100 used #94
180F 23LBF 2546RPM 4 FILE: bc180c



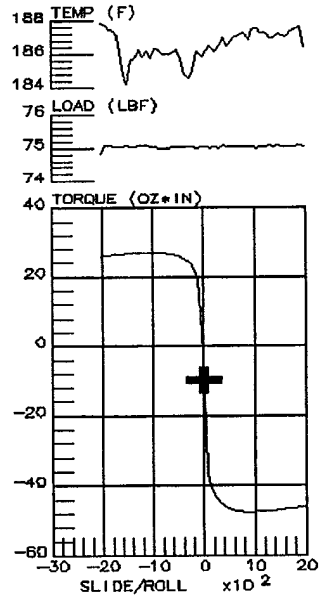


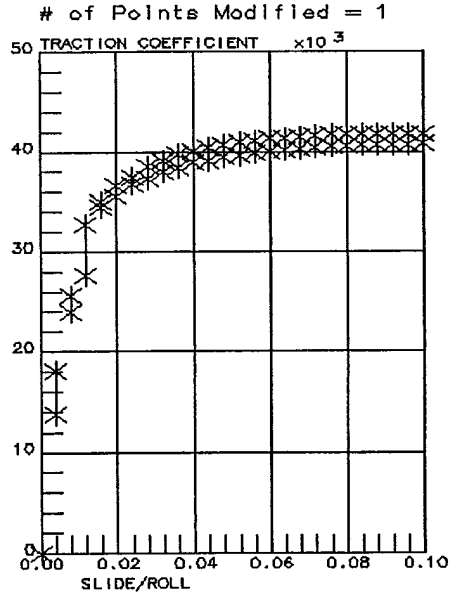
BC 89-126 Coray 100 used #95
180F 44LBF 2546RPM 5 FILE: bc180c



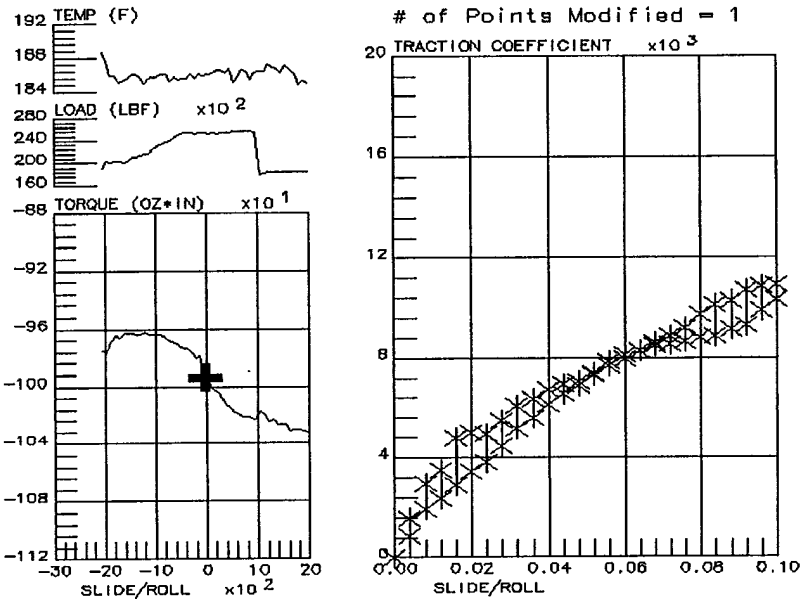


BC 89-126 Coray 100 used #96
180F 75LBF 2546RPM 6 FILE: bc180c

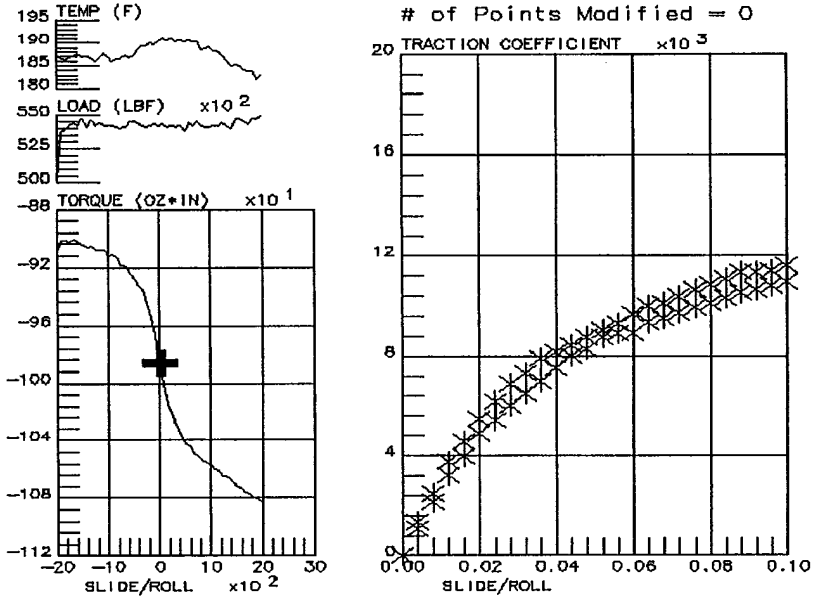




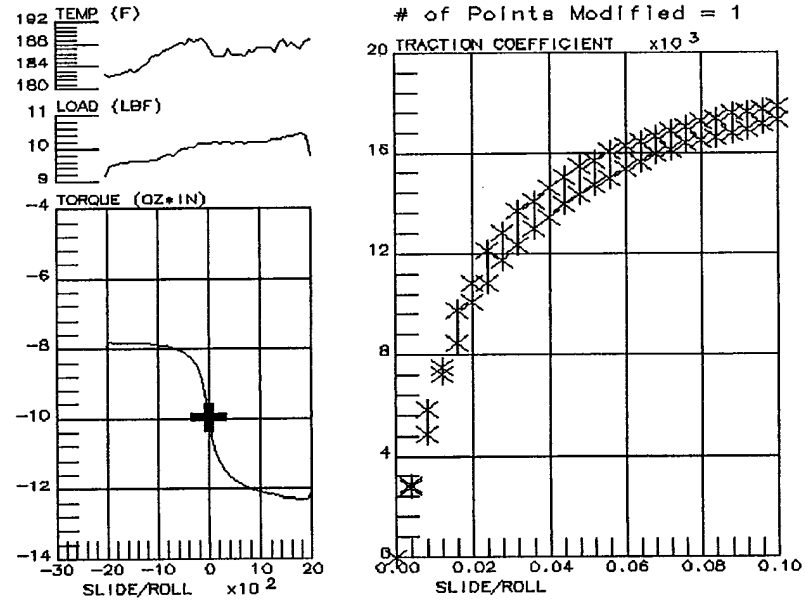
BC 89-126 Coray 100 used #97
180F 1LBF 3820RPM 1 FILE: bc180d



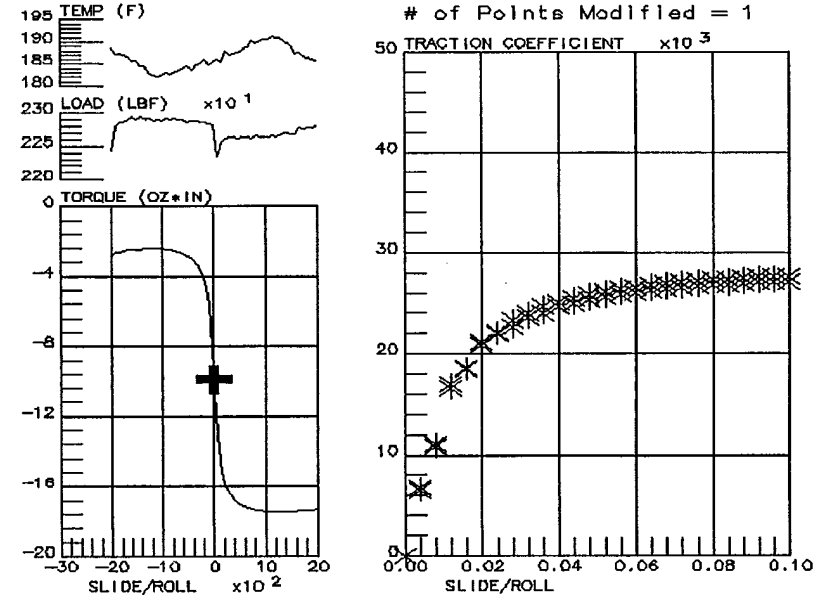
BC 89-126 Coray 100 used #98
180F 5LBF 3820RPM 2 FILE: bc180d



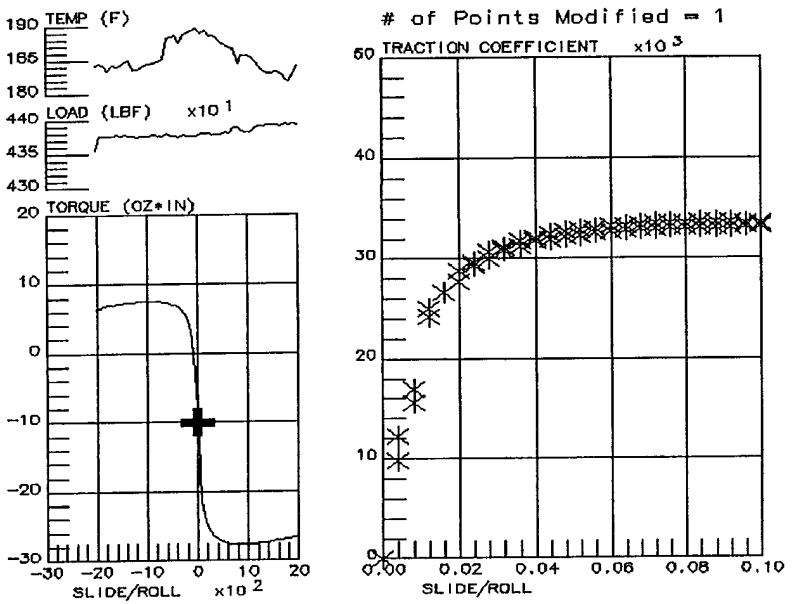
BC 89-126 Coray 100 used #99
180F 9LBF 3820RPM 3 FILE: bc180d



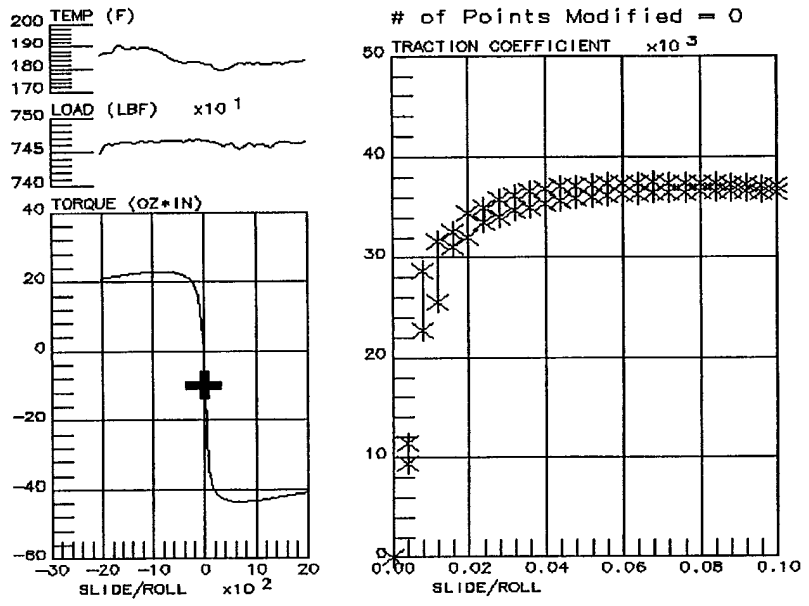
BC 89-126 Coray 100 used #100
180F 23LBF 3820RPM 4 FILE: bc180d



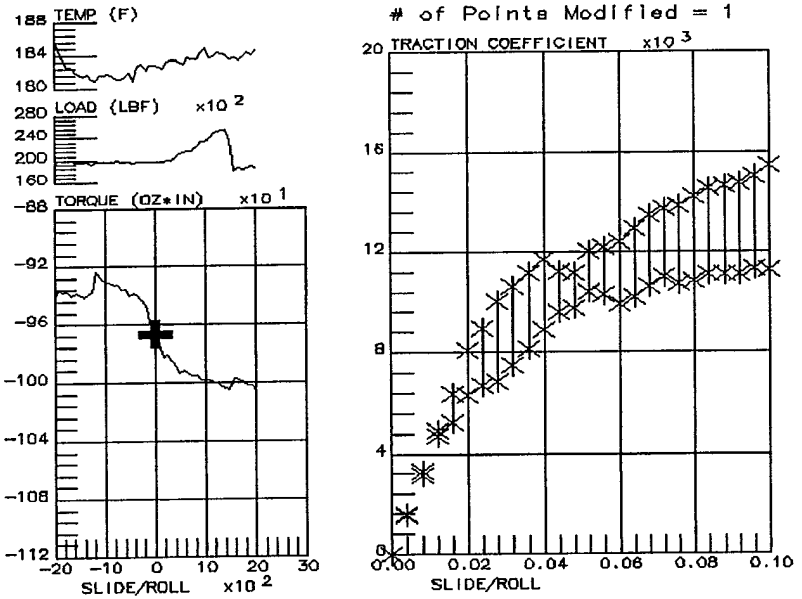
BC 89-126 Coray 100 used #101
180F 44LBF 3820RPM 5 FILE: bc180d



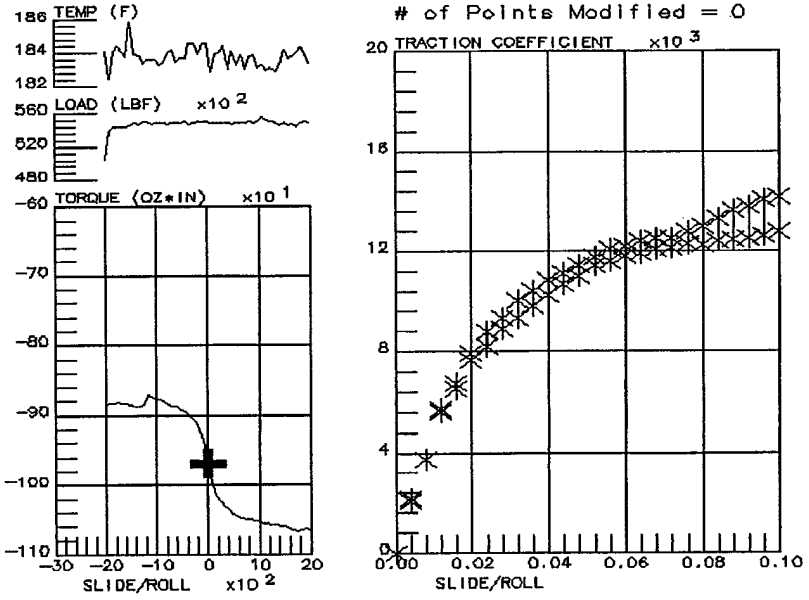
BC 89-126 Coray 100 used #102
180F 75LBF 3820RPM 6 FILE: bc180d



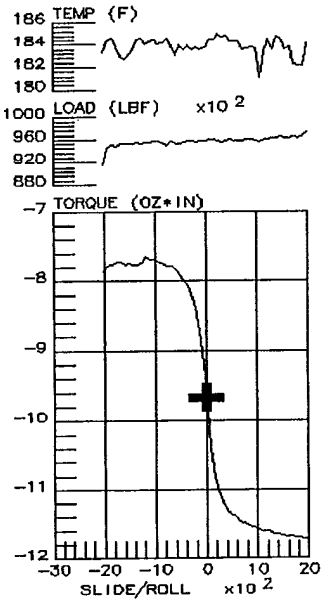
BC 89-126 Coray 100 used #103
180F 1LBF 5093RPM 1 FILE: bc180e



BC 89-126 Coray 100 used #104
180F 5LBF 5093RPM 2 FILE: bc180e



BC 89-126 Coray 100 used #105
180F 9LBF 5093RPM 3 FILE: bc180e



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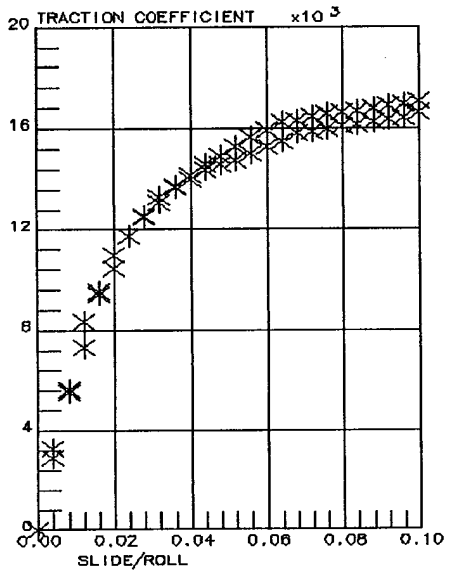
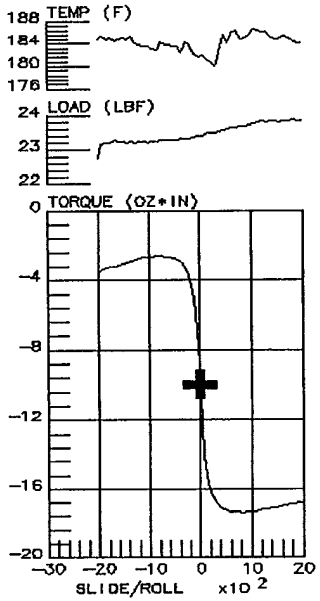


BC 89-126 Coray 100 used #106
180F 23LBF 5093RPM 4 FILE: bc180e



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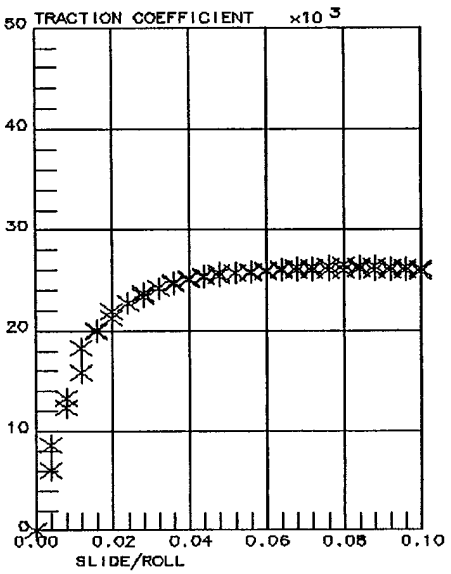
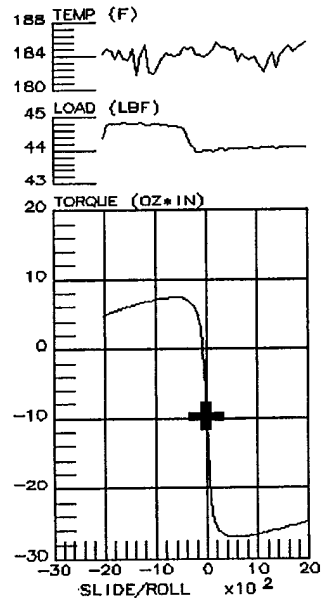


BC 89-126 Coray 100 used #107
180F 44LBF 5093RPM 5 FILE: bc180e



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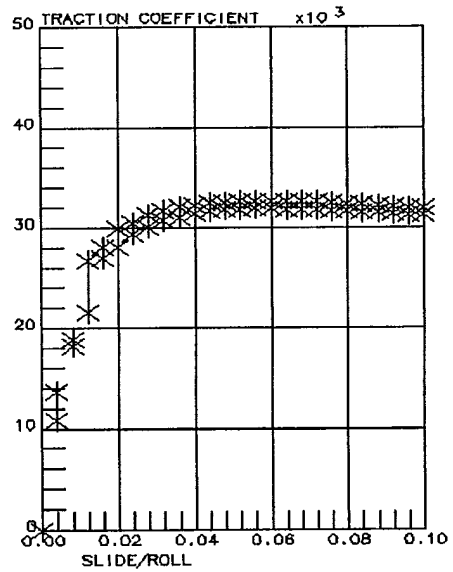
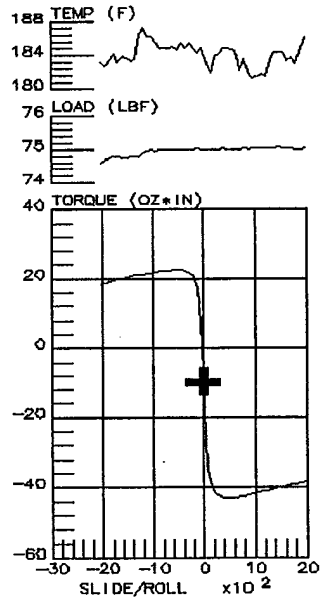


BC 89-126 Coray 100 used #108
180F 75LBF 5093RPM 6 FILE: bc180e



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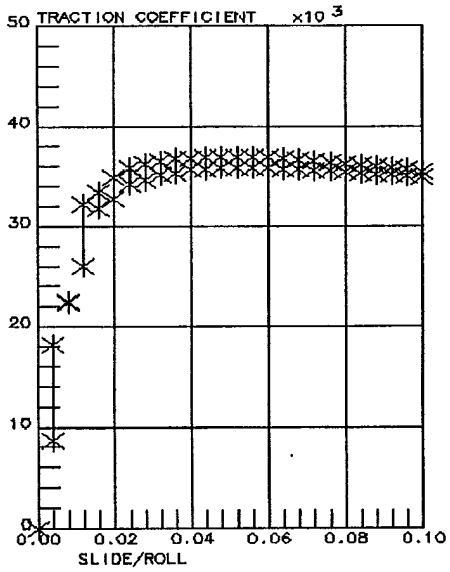


Lubricant name = BC 89-105 Coray 100 used

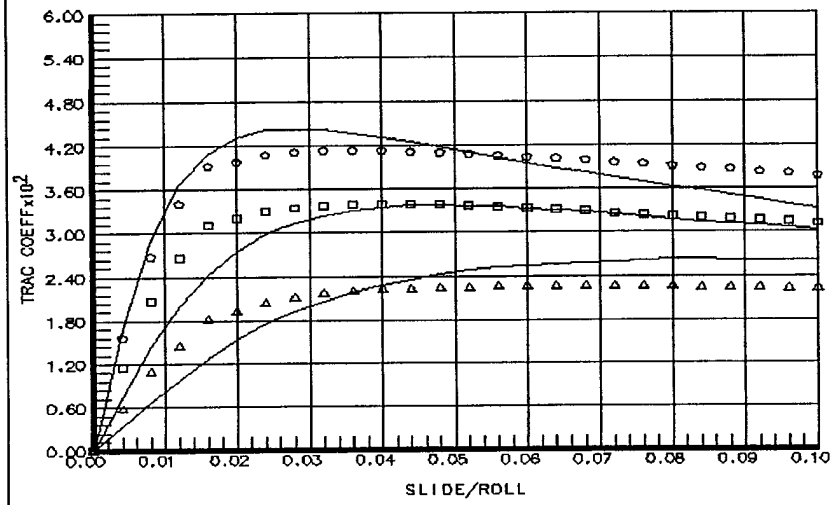
NEWTONIAN MODEL TYPE 1

Dataset Name	Inlet Temp (K)	Roll Velocity (M/S)	XMU* (Pa.S)	ALFA* (1/Pa)	BETA* (1/K)
bc1.dat	2.9722E+02	5.0790E+00	3.1313E+00	7.5000E-09	1.6804E-01
bc2.dat	2.9722E+02	7.6206E+00	1.8401E+00	7.5000E-09	1.2427E-01
bc3.dat	2.9722E+02	1.0160E+01	8.6139E-01	7.5000E-09	9.6579E-02
bc4.dat	3.1111E+02	5.0790E+00	2.6113E+00	7.5000E-09	2.3954E-01
bc5.dat	3.1111E+02	7.6206E+00	9.5654E-01	7.5000E-09	1.5271E-01
bc6.dat	3.1111E+02	1.0160E+01	6.9371E-01	7.5000E-09	1.1600E-01
bc7.dat	3.2222E+02	5.0790E+00	2.6543E+00	7.5000E-09	3.2465E-01
bc8.dat	3.2222E+02	7.6206E+00	1.2599E+00	7.5000E-09	1.9913E-01
bc9.dat	3.2222E+02	1.0160E+01	8.8766E-01	7.5000E-09	1.4960E-01

BC 89-126 Coray 100 used

NEWTONIAN MODEL TYPE 1 bc1.dat

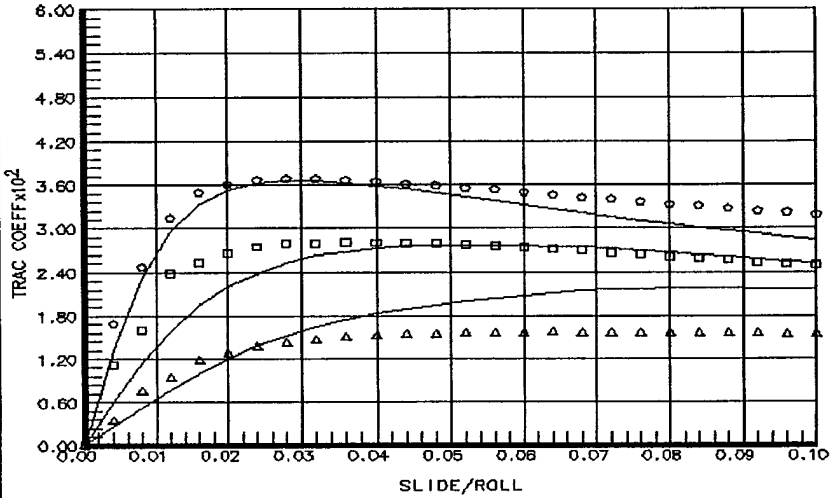
				XMU*	ALFA*	BETA*
△	680MPA	102N	5.08M/S 297K # 16	3.131E+00	7.500E-09	1.680E-01
□	842MPA	196N	5.08M/S 297K # 17	3.131E+00	7.500E-09	1.680E-01
○	1002MPA	334N	5.08M/S 297K # 18	3.131E+00	7.500E-09	1.680E-01



BC 89-126 Coray 100 used

NEWTONIAN MODEL TYPE 1 bc2.dat

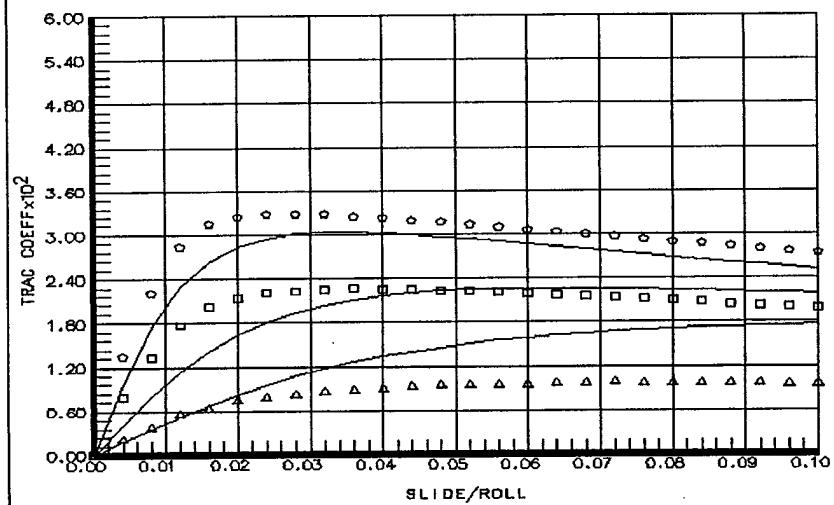
				XMU*	ALFA*	BETA*
△	685MPA	102N	7.62M/S 297K # 22	1.840E+00	7.500E-09	1.243E-01
□	847MPA	196N	7.62M/S 297K # 23	1.840E+00	7.500E-09	1.243E-01
○	1005MPA	334N	7.62M/S 297K # 24	1.840E+00	7.500E-09	1.243E-01



BC 89-126 Coray 100 used

NEWTONIAN MODEL TYPE 1 bc3.dat

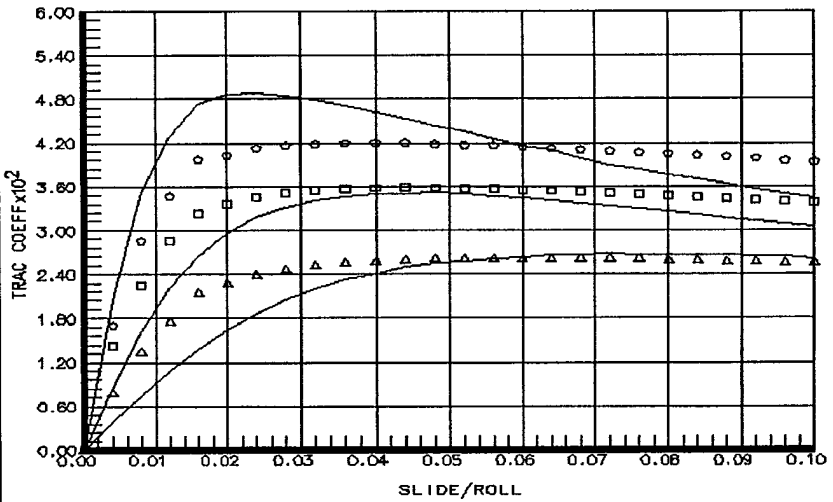
				XMU*	ALFA*	BETA*
△	675MPA	102N	10.16M/S 297K # 28	8.614E-01	7.500E-09	9.658E-02
□	839MPA	196N	10.16M/S 297K # 29	8.614E-01	7.500E-09	9.658E-02
○	1000MPA	334N	10.16M/S 297K # 30	8.614E-01	7.500E-09	9.658E-02



BC 89-126 Coray 100 used

NEWTONIAN MODEL TYPE 1 bc4.dat

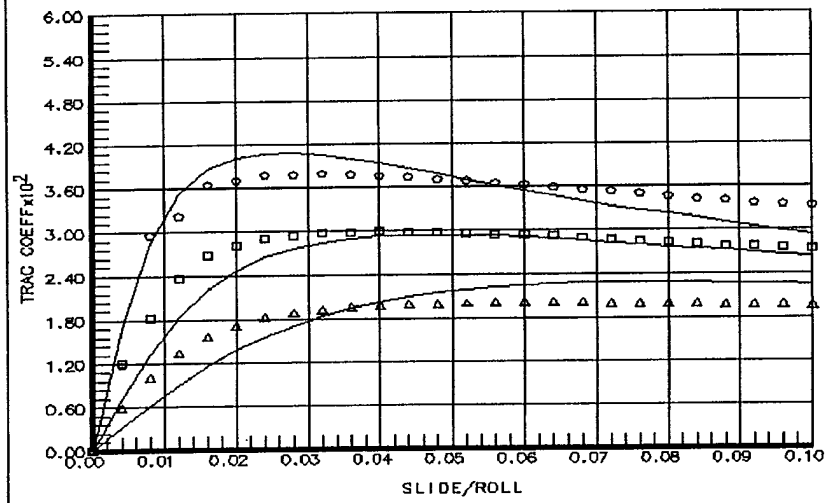
				XMU*	ALFA*	BETA*
△	681MPA	102N	5.08M/S 311K # 46	2.611E+00	7.500E-09	2.395E-01
□	842MPA	196N	5.08M/S 311K # 47	2.611E+00	7.500E-09	2.395E-01
○	1003MPA	334N	5.08M/S 311K # 48	2.611E+00	7.500E-09	2.395E-01



BC 89-126 Coray 100 used

NEWTONIAN MODEL TYPE 1 bc6.dat

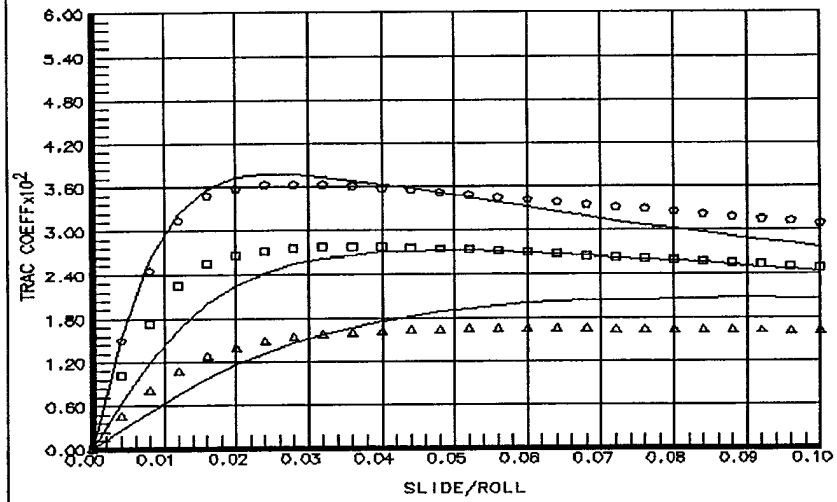
				XMU*	ALFA*	BETA*
△	890MPA	102N	7.62M/S 311K # 52	9.565E-01	7.500E-09	1.527E-01
□	844MPA	196N	7.62M/S 311K # 53	9.565E-01	7.500E-09	1.527E-01
○	1004MPA	334N	7.62M/S 311K # 54	9.565E-01	7.500E-09	1.527E-01



BC 89-126 Coray 100 used

NEWTONIAN MODEL TYPE 1 bc6.dat

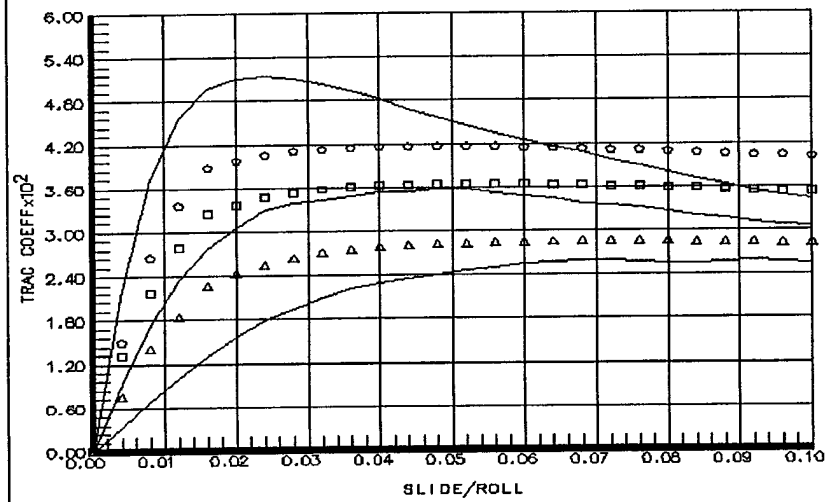
				XMU*	ALFA*	BETA*
△	883MPA	102N	10.16M/S 311K # 58	8.937E-01	7.500E-09	1.160E-01
□	843MPA	196N	10.16M/S 311K # 59	8.937E-01	7.500E-09	1.160E-01
○	1004MPA	334N	10.16M/S 311K # 60	8.937E-01	7.500E-09	1.160E-01



BC 89-126 Coray 100 used

NEWTONIAN MODEL TYPE 1 bc7.dat

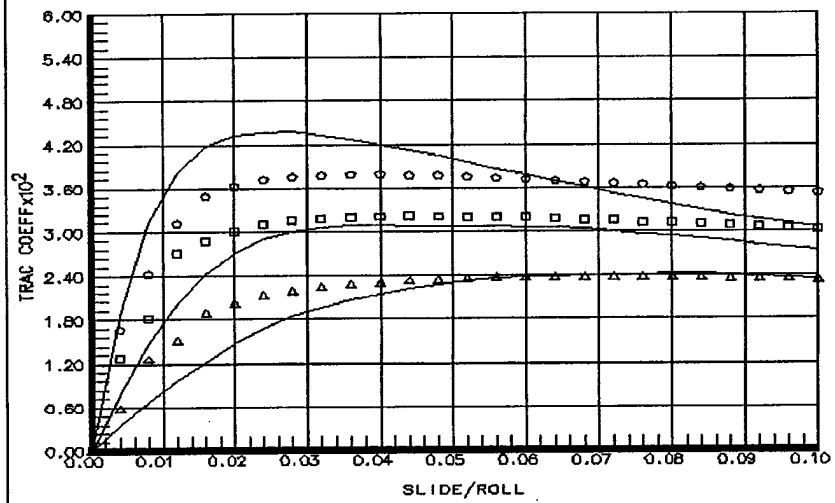
				XMU*	ALFA*	BETA*
△	676MPA	102N	5.08M/S 322K # 70	2.654E+00	7.500E-09	3.247E-01
□	839MPA	196N	5.08M/S 322K # 71	2.654E+00	7.500E-09	3.247E-01
○	1000MPA	334N	5.08M/S 322K # 72	2.654E+00	7.500E-09	3.247E-01



BC 89-126 Coray 100 used

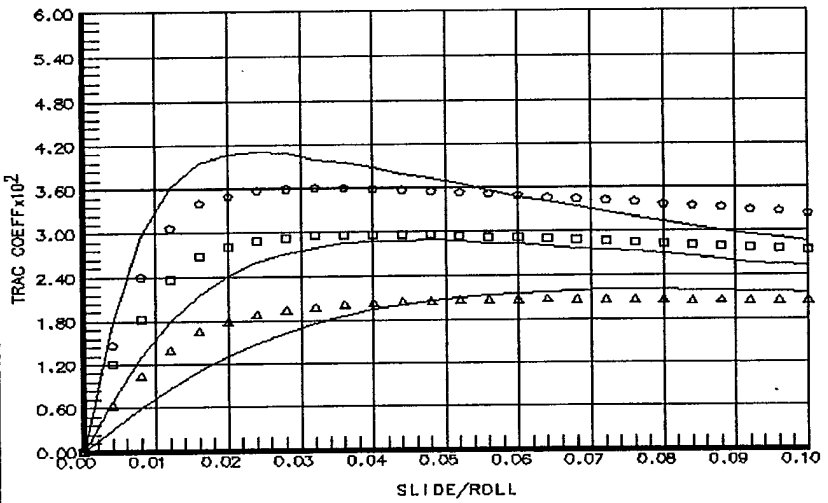
NEWTONIAN MODEL TYPE 1 bc8.dat

				XMU*	ALFA*	BETA*
△	679MPA	102N	7.62M/S 322K # 76	1.260E+00	7.500E-09	1.991E-01
□	841MPA	196N	7.62M/S 322K # 77	1.260E+00	7.500E-09	1.991E-01
○	999MPA	334N	7.62M/S 322K # 78	1.260E+00	7.500E-09	1.991E-01



BC 89-126 Coray 100 used
NEWTONIAN MODEL TYPE 1 bc9.dat

				XMU*	ALFA*	BETA*
△	675MPA	102N	10.16M/S 322K # 82	8.877E-01	7.500E-09	1.496E-01
□	838MPA	196N	10.16M/S 322K # 83	8.877E-01	7.500E-09	1.496E-01
○	1000MPA	334N	10.16M/S 322K # 84	8.877E-01	7.500E-09	1.496E-01



7. Traction Data Set F:
93-172 PAO + 16.5% 93-141 + Additives

Data set name: CM 93-172 PAO+16.5% 93-141 + Additives
Rolling radii [Disks 1 & 2] (in): 0.73 0.73
Crown radii [Disks 1 & 2] (in): 999.00 999.00

Number of data sets found = 161

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
1	80.00	18.39	627.00	693.00	660.00	50	0.71	1.49	1.00	1.00	1.00	1.29E-05	cm80l #1
2	80.00	35.93	627.00	693.00	660.00	50	0.71	1.49	1.00	1.00	1.00	2.61E-05	cm80l #2
3	80.00	62.13	627.00	693.00	660.00	50	0.71	1.49	1.00	1.00	1.00	1.34E-04	cm80l #3
4	80.00	98.62	627.00	693.00	660.00	50	0.71	1.49	1.00	1.00	1.00	5.85E-04	cm80l #4
5	80.00	18.39	1217.00	1345.00	1281.00	50	0.71	1.49	1.00	1.00	1.00	4.86E-05	cm80l #5
6	80.00	35.93	1217.00	1345.00	1281.00	50	0.71	1.49	1.00	1.00	1.00	2.89E-05	cm80l #6
7	80.00	62.13	1217.00	1345.00	1281.00	50	0.71	1.49	1.00	1.00	1.00	6.44E-05	cm80l #7
8	80.00	98.62	1217.00	1345.00	1281.00	50	0.71	1.49	1.00	1.00	1.00	7.70E-05	cm80l #8
9	80.00	18.39	290.00	330.00	310.00	50	0.71	1.49	1.00	1.00	1.00	3.85E-05	cm80lx #1
10	80.00	35.93	290.00	330.00	310.00	50	0.71	1.49	1.00	1.00	1.00	8.19E-05	cm80lx #2
11	80.00	62.13	290.00	330.00	310.00	50	0.71	1.49	1.00	1.00	1.00	1.36E-04	cm80lx #3
12	80.00	98.62	290.00	330.00	310.00	50	0.71	1.49	1.00	1.00	1.00	3.00E-03	cm80lx #4
13	80.00	18.39	2472.00	2732.00	2602.00	50	0.71	1.49	1.00	1.00	1.00	6.42E-05	cm80h #1
14	80.00	35.93	2472.00	2732.00	2602.00	50	0.71	1.49	1.00	1.00	1.00	6.88E-05	cm80h #2
15	80.00	62.13	2472.00	2732.00	2602.00	50	0.71	1.49	1.00	1.00	1.00	1.77E-04	cm80h #3
16	80.00	98.62	2472.00	2732.00	2602.00	50	0.71	1.49	1.00	1.00	1.00	3.14E-04	cm80h #4
17	80.00	18.39	4908.00	5424.00	5166.00	50	0.71	1.49	1.00	1.00	1.00	1.26E-04	cm80h #5
18	80.00	35.93	4908.00	5424.00	5166.00	50	0.71	1.49	1.00	1.00	1.00	7.12E-05	cm80h #6
19	80.00	62.13	4908.00	5424.00	5166.00	50	0.71	1.49	1.00	1.00	1.00	6.87E-05	cm80h #7
20	80.00	98.62	4908.00	5424.00	5166.00	50	0.71	1.49	1.00	1.00	1.00	1.65E-04	cm80h #8
21	80.00	18.39	7381.00	8157.00	7769.00	50	0.71	1.49	1.00	1.00	1.00	2.92E-05	cm80h #9
22	80.00	35.93	7381.00	8157.00	7769.00	50	0.71	1.49	1.00	1.00	1.00	7.77E-05	cm80h #10
23	80.00	62.13	7381.00	8157.00	7769.00	50	0.71	1.49	1.00	1.00	1.00	9.10E-05	cm80h #11
24	80.00	98.62	7381.00	8157.00	7769.00	50	0.71	1.49	1.00	1.00	1.00	9.59E-05	cm80h #12
25	80.00	18.39	9852.00	10890.00	10371.00	50	0.71	1.49	1.00	1.00	1.00	7.64E-05	cm80h #13
26	80.00	35.93	9852.00	10890.00	10371.00	50	0.71	1.49	1.00	1.00	1.00	1.18E-04	cm80h #14
27	80.00	62.13	9852.00	10890.00	10371.00	50	0.71	1.49	1.00	1.00	1.00	8.06E-05	cm80h #15
28	80.00	98.62	9852.00	10890.00	10371.00	50	0.71	1.49	1.00	1.00	1.00	1.30E-04	cm80h #16
29	100.00	18.39	290.00	330.00	310.00	50	0.71	1.49	1.00	1.00	1.00	3.90E-05	cm100l #1
30	100.00	35.93	290.00	330.00	310.00	50	0.71	1.49	1.00	1.00	1.00	1.50E-04	cm100l #2
31	100.00	62.13	290.00	330.00	310.00	50	0.71	1.49	1.00	1.00	1.00	8.02E-05	cm100l #3
32	100.00	98.62	290.00	330.00	310.00	50	0.71	1.49	1.00	1.00	1.00	1.62E-03	cm100l #4
33	100.00	18.39	627.00	693.00	660.00	50	0.71	1.49	1.00	1.00	1.00	1.25E-05	cm100l #5
34	100.00	35.93	627.00	693.00	660.00	50	0.71	1.49	1.00	1.00	1.00	1.19E-04	cm100l #6
35	100.00	62.13	627.00	693.00	660.00	50	0.71	1.49	1.00	1.00	1.00	5.19E-04	cm100l #7
36	100.00	98.62	627.00	693.00	660.00	50	0.71	1.49	1.00	1.00	1.00	9.70E-05	cm100l #8
37	100.00	18.39	1217.00	1345.00	1281.00	50	0.71	1.49	1.00	1.00	1.00	2.28E-05	cm100l #9
38	100.00	35.93	1217.00	1345.00	1281.00	50	0.71	1.49	1.00	1.00	1.00	1.80E-05	cm100l #10
39	100.00	62.13	1217.00	1345.00	1281.00	50	0.71	1.49	1.00	1.00	1.00	3.18E-05	cm100l #11
40	100.00	98.62	1217.00	1345.00	1281.00	50	0.71	1.49	1.00	1.00	1.00	8.54E-05	cm100l #12
41	100.00	18.39	2472.00	2732.00	2602.00	50	0.71	1.49	1.00	1.00	1.00	1.27E-04	cm100h #1
42	100.00	35.93	2472.00	2732.00	2602.00	50	0.71	1.49	1.00	1.00	1.00	4.54E-05	cm100h #2
43	100.00	62.13	2472.00	2732.00	2602.00	50	0.71	1.49	1.00	1.00	1.00	1.96E-05	cm100h #3
44	100.00	98.62	2472.00	2732.00	2602.00	50	0.71	1.49	1.00	1.00	1.00	3.34E-04	cm100h #4
45	100.00	18.39	4908.00	5424.00	5166.00	50	0.71	1.49	1.00	1.00	1.00	1.07E-04	cm100h #5
46	100.00	35.93	4908.00	5424.00	5166.00	50	0.71	1.49	1.00	1.00	1.00	8.34E-05	cm100h #6
47	100.00	62.13	4908.00	5424.00	5166.00	50	0.71	1.49	1.00	1.00	1.00	7.71E-05	cm100h #7
48	100.00	98.62	4908.00	5424.00	5166.00	50	0.71	1.49	1.00	1.00	1.00	3.83E-05	cm100h #8
49	100.00	18.39	7381.00	8157.00	7769.00	50	0.71	1.49	1.00	1.00	1.00	2.84E-05	cm100h #9
50	100.00	35.93	7381.00	8157.00	7769.00	50	0.71	1.49	1.00	1.00	1.00	1.29E-05	cm100h #10

Data set: CM 93-172 PAO+16.5% 93-141 + Additives ....continued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
51	100.00	62.13	7381.00	8157.00	7769.00	50	0.71	1.49	1.00	1.00	1.00	6.95E-05	cm100h #11
52	100.00	98.62	7381.00	8157.00	7769.00	50	0.71	1.49	1.00	1.00	1.00	5.60E-05	cm100h #12
53	100.00	18.39	9852.00	10890.00	10371.00	50	0.71	1.49	1.00	1.00	1.00	1.37E-04	cm100h #13
54	100.00	35.93	9852.00	10890.00	10371.00	50	0.71	1.49	1.00	1.00	1.00	8.99E-05	cm100h #14
55	100.00	62.13	9852.00	10890.00	10371.00	50	0.71	1.49	1.00	1.00	1.00	2.16E-05	cm100h #15
56	100.00	98.62	9852.00	10890.00	10371.00	50	0.71	1.49	1.00	1.00	1.00	2.52E-04	cm100h #16
57	150.00	18.39	290.00	330.00	310.00	50	0.71	1.49	1.00	1.00	1.00	1.17E-04	cm150l #1
58	150.00	35.93	290.00	330.00	310.00	50	0.71	1.49	1.00	1.00	1.00	1.85E-04	cm150l #2
59	150.00	62.13	290.00	330.00	310.00	50	0.71	1.49	1.00	1.00	1.00	4.94E-04	cm150l #3
60	150.00	98.62	290.00	330.00	310.00	50	0.71	1.49	1.00	1.00	1.00	6.17E-05	cm150l #4
61	150.00	18.39	627.00	693.00	660.00	50	0.71	1.49	1.00	1.00	1.00	7.02E-06	cm150l #5
62	150.00	35.93	627.00	693.00	660.00	50	0.71	1.49	1.00	1.00	1.00	1.04E-05	cm150l #6
63	150.00	62.13	627.00	693.00	660.00	50	0.71	1.49	1.00	1.00	1.00	5.66E-05	cm150l #7
64	150.00	98.62	627.00	693.00	660.00	50	0.71	1.49	1.00	1.00	1.00	7.41E-05	cm150l #8
65	150.00	18.39	1217.00	1345.00	1281.00	50	0.71	1.49	1.00	1.00	1.00	8.01E-06	cm150l #9
66	150.00	35.93	1217.00	1345.00	1281.00	50	0.71	1.49	1.00	1.00	1.00	7.55E-06	cm150l #10
67	150.00	62.13	1217.00	1345.00	1281.00	50	0.71	1.49	1.00	1.00	1.00	2.79E-05	cm150l #11
68	150.00	98.62	1217.00	1345.00	1281.00	50	0.71	1.49	1.00	1.00	1.00	3.46E-05	cm150l #12
69	150.00	35.93	2472.00	2732.00	2602.00	50	0.71	1.49	1.00	1.00	1.00	5.63E-06	cm150h #1
70	150.00	62.13	2472.00	2732.00	2602.00	50	0.71	1.49	1.00	1.00	1.00	4.45E-05	cm150h #2
71	150.00	98.62	2472.00	2732.00	2602.00	50	0.71	1.49	1.00	1.00	1.00	4.17E-05	cm150h #3
72	150.00	35.93	4908.00	5424.00	5166.00	50	0.71	1.49	1.00	1.00	1.00	1.44E-05	cm150h #4
73	150.00	62.13	4908.00	5424.00	5166.00	50	0.71	1.49	1.00	1.00	1.00	1.13E-05	cm150h #5
74	150.00	98.62	4908.00	5424.00	5166.00	50	0.71	1.49	1.00	1.00	1.00	2.60E-05	cm150h #6
75	150.00	35.93	7381.00	8157.00	7769.00	50	0.71	1.49	1.00	1.00	1.00	2.61E-05	cm150h #7
76	150.00	62.13	7381.00	8157.00	7769.00	50	0.71	1.49	1.00	1.00	1.00	1.44E-05	cm150h #8
77	150.00	98.62	7381.00	8157.00	7769.00	50	0.71	1.49	1.00	1.00	1.00	1.32E-05	cm150h #9
78	150.00	35.93	9852.00	10890.00	10371.00	50	0.71	1.49	1.00	1.00	1.00	3.55E-05	cm150h #10
79	150.00	62.13	9852.00	10890.00	10371.00	50	0.71	1.49	1.00	1.00	1.00	2.06E-05	cm150h #11
80	150.00	98.62	9852.00	10890.00	10371.00	50	0.71	1.49	1.00	1.00	1.00	6.20E-05	cm150h #12
81	200.00	18.39	290.00	330.00	310.00	50	0.71	1.49	1.00	1.00	1.00	1.38E-04	cm200l #1
82	200.00	35.93	290.00	330.00	310.00	50	0.71	1.49	1.00	1.00	1.00	3.31E-05	cm200l #2
83	200.00	62.13	290.00	330.00	310.00	50	0.71	1.49	1.00	1.00	1.00	1.29E-04	cm200l #3
84	200.00	98.62	290.00	330.00	310.00	50	0.71	1.49	1.00	1.00	1.00	2.32E-04	cm200l #4
85	200.00	18.39	627.00	693.00	660.00	50	0.71	1.49	1.00	1.00	1.00	5.40E-05	cm200l #5
86	200.00	35.93	627.00	693.00	660.00	50	0.71	1.49	1.00	1.00	1.00	1.15E-04	cm200l #6
87	200.00	62.13	627.00	693.00	660.00	50	0.71	1.49	1.00	1.00	1.00	9.68E-05	cm200l #7
88	200.00	98.62	627.00	693.00	660.00	50	0.71	1.49	1.00	1.00	1.00	2.89E-04	cm200l #8
89	200.00	18.39	1217.00	1345.00	1281.00	50	0.71	1.49	1.00	1.00	1.00	2.08E-05	cm200l #9
90	200.00	35.93	1217.00	1345.00	1281.00	50	0.71	1.49	1.00	1.00	1.00	4.17E-06	cm200l #10
91	200.00	62.13	1217.00	1345.00	1281.00	50	0.71	1.49	1.00	1.00	1.00	1.68E-05	cm200l #11
92	200.00	98.62	1217.00	1345.00	1281.00	50	0.71	1.49	1.00	1.00	1.00	2.51E-05	cm200l #12
93	200.00	35.93	2472.00	2732.00	2602.00	50	0.71	1.49	1.00	1.00	1.00	1.21E-04	cm200h #1
94	200.00	62.13	2472.00	2732.00	2602.00	50	0.71	1.49	1.00	1.00	1.00	8.84E-06	cm200h #2
95	200.00	98.62	2472.00	2732.00	2602.00	50	0.71	1.49	1.00	1.00	1.00	5.02E-05	cm200h #3
96	200.00	35.93	4908.00	5424.00	5166.00	50	0.71	1.49	1.00	1.00	1.00	2.21E-05	cm200h #4
97	200.00	62.13	4908.00	5424.00	5166.00	50	0.71	1.49	1.00	1.00	1.00	2.08E-06	cm200h #5
98	200.00	98.62	4908.00	5424.00	5166.00	50	0.71	1.49	1.00	1.00	1.00	1.77E-05	cm200h #6
99	200.00	35.93	7381.00	8157.00	7769.00	50	0.71	1.49	1.00	1.00	1.00	7.54E-06	cm200h #7
100	200.00	62.13	7381.00	8157.00	7769.00	50	0.71	1.49	1.00	1.00	1.00	3.43E-06	cm200h #8
101	200.00	98.62	7381.00	8157.00	7769.00	50	0.71	1.49	1.00	1.00	1.00	2.19E-05	cm200h #9
102	200.00	35.93	9852.00	10890.00	10371.00	50	0.71	1.49	1.00	1.00	1.00	1.17E-04	cm200h #10
103	200.00	62.13	9852.00	10890.00	10371.00	50	0.71	1.49	1.00	1.00	1.00	1.17E-05	cm200h #11
104	200.00	98.62	9852.00	10890.00	10371.00	50	0.71	1.49	1.00	1.00	1.00	1.74E-05	cm200h #12
105	220.00	35.93	4908.00	5424.00	5166.00	50	0.71	1.49	1.00	1.00	1.00	6.53E-06	cm212ha #1
106	220.00	62.13	4908.00	5424.00	5166.00	50	0.71	1.49	1.00	1.00	1.00	2.15E-06	cm212ha #2
107	220.00	35.93	6163.00	6811.00	6487.00	50	0.71	1.49	1.00	1.00	1.00	1.19E-05	cm212ha #3
108	220.00	62.13	6163.00	6811.00	6487.00	50	0.71	1.49	1.00	1.00	1.00	1.71E-05	cm212ha #4
109	250.00	18.39	290.00	330.00	310.00	50	0.71	1.49	1.00	1.00	1.00	1.60E-04	cm250l #1
110	250.00	35.93	290.00	330.00	310.00	50	0.71	1.49	1.00	1.00	1.00	3.97E-04	cm250l #2
111	250.00	62.13	290.00	330.00	310.00	50	0.71	1.49	1.00	1.00	1.00	8.46E-05	cm250l #3
112	250.00	98.62	290.00	330.00	310.00	50	0.71	1.49	1.00	1.00	1.00	1.04E-04	cm250l #4
113	250.00	18.39	627.00	693.00	660.00	50	0.71	1.49	1.00	1.00	1.00	5.09E-04	cm250l #5
114	250.00	35.93	627.00	693.00	660.00	50	0.71	1.49	1.00	1.00	1.00	3.97E-04	cm250l #6
115	250.00	62.13	627.00	693.00	660.00	50	0.71	1.49	1.00	1.00	1.00	5.23E-04	cm250l #7
116	250.00	98.62	627.00	693.00	660.00	50	0.71	1.49	1.00	1.00	1.00	1.53E-04	cm250l #8
117	250.00	18.39	693.00	627.00	660.00	50	0.71	1.49	1.00	1.00	1.00	1.61E-04	cm250l #9
118	250.00	35.93	693.00	627.00	660.00	50	0.71	1.49	1.00	1.00	1.00	1.94E-04	cm250l #10
119	250.00	62.13	693.00	627.00	660.00	50	0.71	1.49	1.00	1.00	1.00	2.12E-04	cm250l #11
120	250.00	98.62	693.00	627.00	660.00	50	0.71	1.49	1.00	1.00	1.00	6.10E-04	cm250l #12

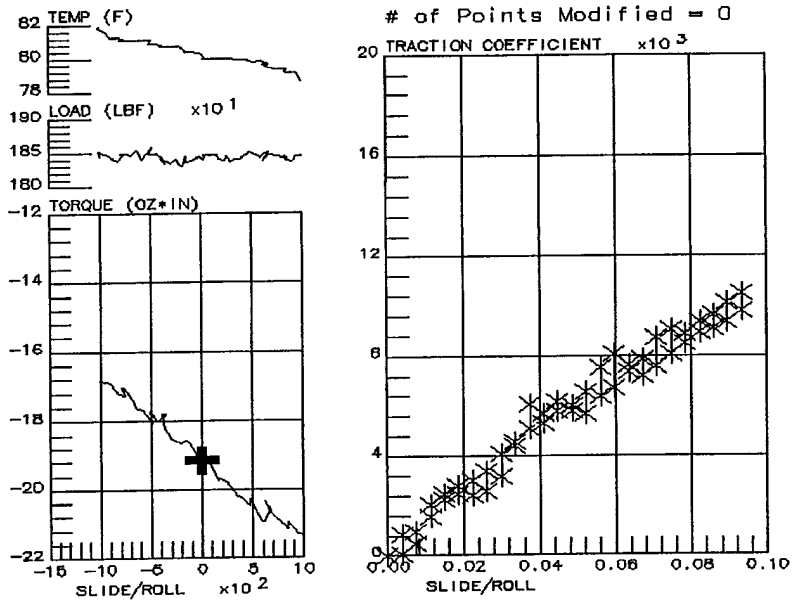
Data set: CM 93-172 PAO+16.5% 93-141 + Additives ....continued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
121	250.00	18.39	1217.00	1345.00	1281.00	50	0.71	1.49	1.00	1.00	1.00	4.01E-05	cm250l #13
122	250.00	35.93	1217.00	1345.00	1281.00	50	0.71	1.49	1.00	1.00	1.00	1.46E-05	cm250l #14
123	250.00	62.13	1217.00	1345.00	1281.00	50	0.71	1.49	1.00	1.00	1.00	1.09E-05	cm250l #15
124	250.00	98.62	1217.00	1345.00	1281.00	50	0.71	1.49	1.00	1.00	1.00	2.21E-05	cm250l #16
125	250.00	35.93	2472.00	2732.00	2602.00	50	0.71	1.49	1.00	1.00	1.00	3.21E-05	cm250h #1
126	250.00	62.13	2472.00	2732.00	2602.00	50	0.71	1.49	1.00	1.00	1.00	5.33E-06	cm250h #2
127	250.00	98.62	2472.00	2732.00	2602.00	50	0.71	1.49	1.00	1.00	1.00	2.74E-05	cm250h #3
128	250.00	35.93	4908.00	5424.00	5166.00	50	0.71	1.49	1.00	1.00	1.00	1.17E-05	cm250h #4
129	250.00	62.13	4908.00	5424.00	5166.00	50	0.71	1.49	1.00	1.00	1.00	5.72E-06	cm250h #5
130	250.00	98.62	4908.00	5424.00	5166.00	50	0.71	1.49	1.00	1.00	1.00	6.25E-06	cm250h #6
131	250.00	35.93	7381.00	8157.00	7769.00	50	0.71	1.49	1.00	1.00	1.00	2.61E-05	cm250h #7
132	250.00	62.13	7381.00	8157.00	7769.00	50	0.71	1.49	1.00	1.00	1.00	1.88E-06	cm250h #8
133	250.00	98.62	7381.00	8157.00	7769.00	50	0.71	1.49	1.00	1.00	1.00	1.46E-06	cm250h #9
134	250.00	35.93	9852.00	10890.00	10371.00	50	0.71	1.49	1.00	1.00	1.00	3.37E-05	cm250h #10
135	250.00	62.13	9852.00	10890.00	10371.00	50	0.71	1.49	1.00	1.00	1.00	2.33E-06	cm250h #11
136	250.00	98.62	9852.00	10890.00	10371.00	50	0.71	1.49	1.00	1.00	1.00	6.26E-06	cm250h #12
137	300.00	35.93	290.00	330.00	310.00	50	0.71	1.49	1.00	1.00	1.00	5.57E-04	cm300l #1
138	300.00	62.13	290.00	330.00	310.00	50	0.71	1.49	1.00	1.00	1.00	7.19E-04	cm300l #2
139	300.00	98.62	290.00	330.00	310.00	50	0.71	1.49	1.00	1.00	1.00	7.35E-04	cm300l #3
140	300.00	35.93	627.00	693.00	660.00	50	0.71	1.49	1.00	1.00	1.00	4.75E-04	cm300l #4
141	300.00	62.13	627.00	693.00	660.00	50	0.71	1.49	1.00	1.00	1.00	2.43E-04	cm300l #5
142	300.00	98.62	627.00	693.00	660.00	50	0.71	1.49	1.00	1.00	1.00	6.76E-05	cm300l #6
143	300.00	35.93	1217.00	1345.00	1281.00	50	0.71	1.49	1.00	1.00	1.00	1.07E-05	cm300l #7
144	300.00	62.13	1217.00	1345.00	1281.00	49	0.71	1.49	1.00	1.00	1.00	3.32E-06	cm300l #8
145	300.00	98.62	1217.00	1345.00	1281.00	50	0.71	1.49	1.00	1.00	1.00	1.59E-05	cm300l #9
146	300.00	18.39	2472.00	2732.00	2602.00	50	0.71	1.49	1.00	1.00	1.00	6.31E-05	cm300h #1
147	300.00	35.93	2472.00	2732.00	2602.00	50	0.71	1.49	1.00	1.00	1.00	3.21E-06	cm300h #2
148	300.00	62.13	2472.00	2732.00	2602.00	50	0.71	1.49	1.00	1.00	1.00	3.15E-06	cm300h #3
149	300.00	98.62	2472.00	2732.00	2602.00	50	0.71	1.49	1.00	1.00	1.00	2.41E-06	cm300h #4
150	300.00	18.39	4908.00	5424.00	5166.00	50	0.71	1.49	1.00	1.00	1.00	2.43E-05	cm300h #5
151	300.00	35.93	4908.00	5424.00	5166.00	50	0.71	1.49	1.00	1.00	1.00	6.64E-06	cm300h #6
152	300.00	62.13	4908.00	5424.00	5166.00	50	0.71	1.49	1.00	1.00	1.00	9.24E-06	cm300h #7
153	300.00	98.62	4908.00	5424.00	5166.00	50	0.71	1.49	1.00	1.00	1.00	8.54E-06	cm300h #8
154	300.00	18.39	7381.00	8157.00	7769.00	50	0.71	1.49	1.00	1.00	1.00	6.32E-05	cm300h #9
155	300.00	35.93	7381.00	8157.00	7769.00	50	0.71	1.49	1.00	1.00	1.00	1.30E-05	cm300h #10
156	300.00	62.13	7381.00	8157.00	7769.00	50	0.71	1.49	1.00	1.00	1.00	3.57E-06	cm300h #11
157	300.00	98.62	7381.00	8157.00	7769.00	50	0.71	1.49	1.00	1.00	1.00	2.91E-06	cm300h #12
158	300.00	18.39	9852.00	10890.00	10371.00	50	0.71	1.49	1.00	1.00	1.00	5.17E-05	cm300h #13
159	300.00	35.93	9852.00	10890.00	10371.00	50	0.71	1.49	1.00	1.00	1.00	2.38E-05	cm300h #14
160	300.00	62.13	9852.00	10890.00	10371.00	50	0.71	1.49	1.00	1.00	1.00	2.40E-06	cm300h #15
161	300.00	98.62	9852.00	10890.00	10371.00	50	0.71	1.49	1.00	1.00	1.00	5.08E-06	cm300h #16

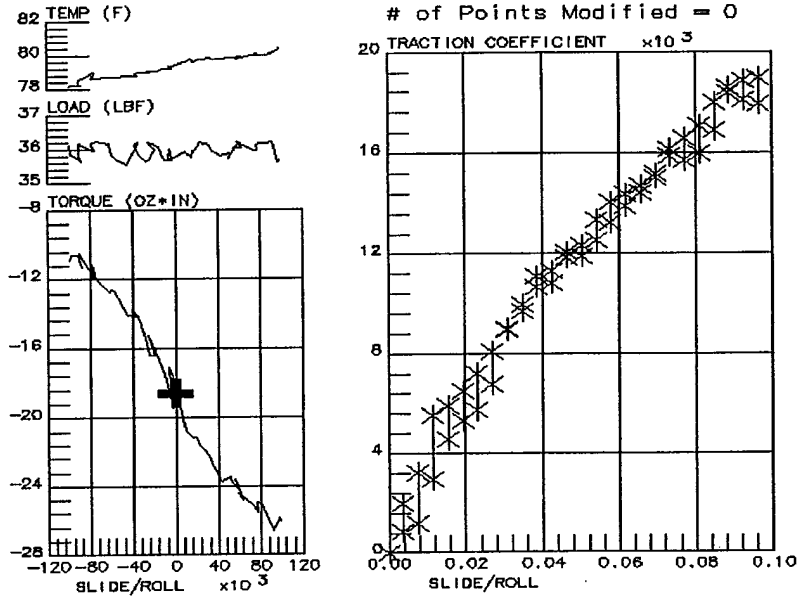
Summary of Select Data Files

Filename	Temp	RollRpm	DataCurve #		
cm1.dat	80.00	1281.00	6	7	8
cm2.dat	80.00	2602.00	14	15	16
cm3.dat	80.00	5166.00	18	19	20
cm4.dat	80.00	7769.00	22	23	24
cm5.dat	80.00	10371.00	26	27	28
cm6.dat	100.00	1281.00	38	39	40
cm7.dat	100.00	2602.00	42	43	44
cm8.dat	100.00	5166.00	46	47	48
cm9.dat	100.00	7769.00	50	51	52
cm10.dat	100.00	10371.00	54	55	56
cm11.dat	150.00	1281.00	66	67	68
cm12.dat	150.00	2602.00	69	70	71
cm13.dat	150.00	5166.00	72	73	74
cm14.dat	150.00	7769.00	75	76	77
cm15.dat	150.00	10371.00	78	79	80
cm16.dat	200.00	1281.00	90	91	92
cm17.dat	200.00	2602.00	93	94	95
cm18.dat	200.00	5166.00	96	97	98
cm19.dat	200.00	7769.00	99	100	101
cm20.dat	200.00	10371.00	102	103	104
cm21.dat	250.00	1281.00	122	123	124
cm22.dat	250.00	2602.00	125	126	127
cm23.dat	250.00	5166.00	128	129	130
cm24.dat	250.00	7769.00	131	132	133
cm25.dat	250.00	10371.00	134	135	136
cm26.dat	300.00	1281.00	143	144	145
cm27.dat	300.00	2602.00	147	148	149
cm28.dat	300.00	5166.00	151	152	153
cm29.dat	300.00	7769.00	155	156	157
cm30.dat	300.00	10371.00	159	160	161

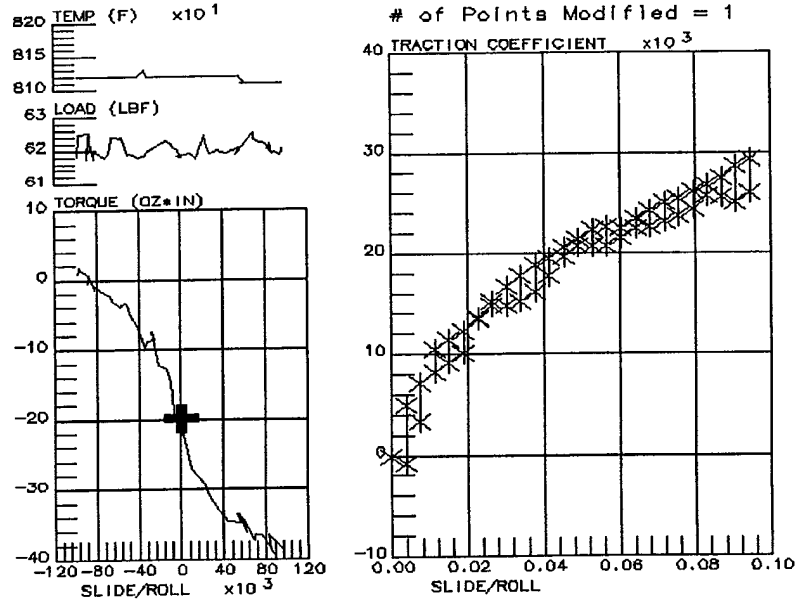
CM 93-172 PAO+16.5% 93-141 + Additives#1
80F 18LBF 660RPM 1 FILE: cm801



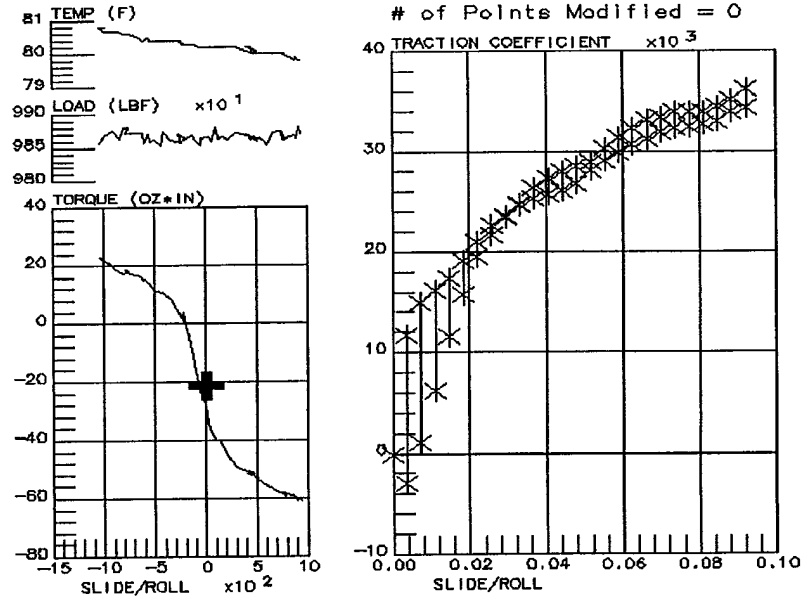
CM 93-172 PAO+16.5% 93-141 + Additives#2
80F 36LBF 660RPM 2 FILE: cm801



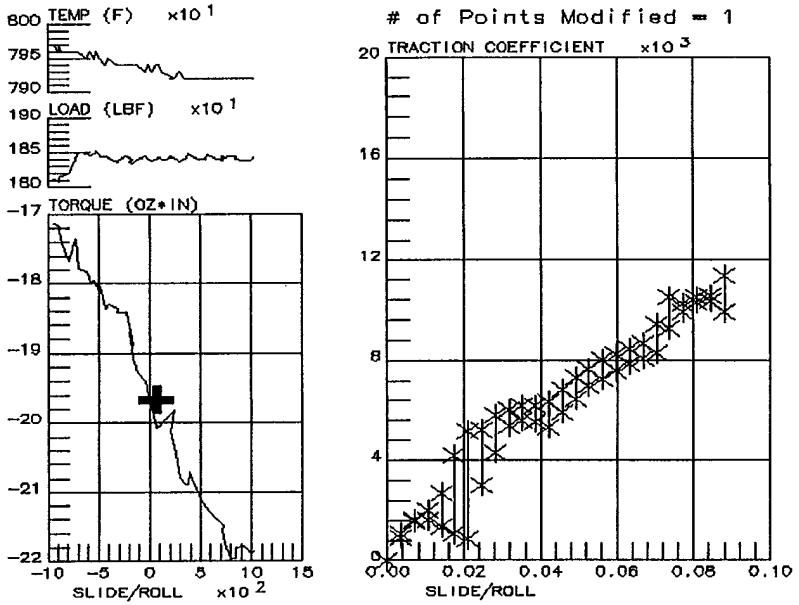
CM 93-172 PAO+16.5% 93-141 + Additives#3
80F 62LBF 660RPM 3 FILE: cm801



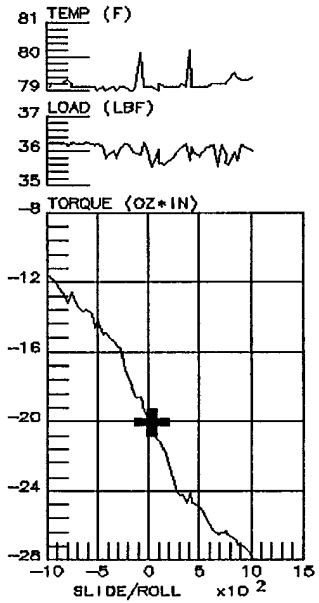
CM 93-172 PAO+16.5% 93-141 + Additives#4
80F 99LBF 660RPM 4 FILE: cm801

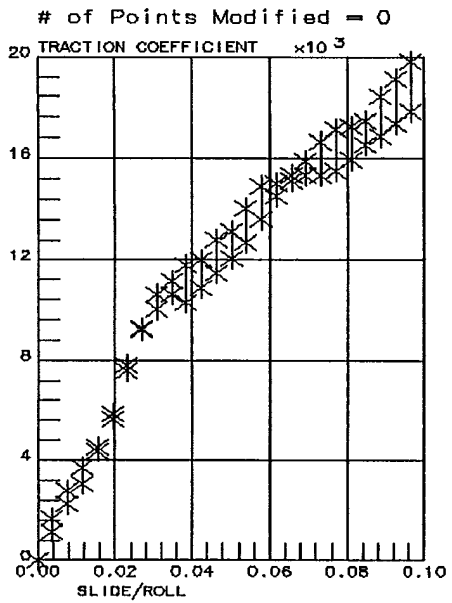


CM 93-172 PAO+16.5% 93-141 + Additives#5
80F 18LBF 1281RPM 5 FILE: cm801

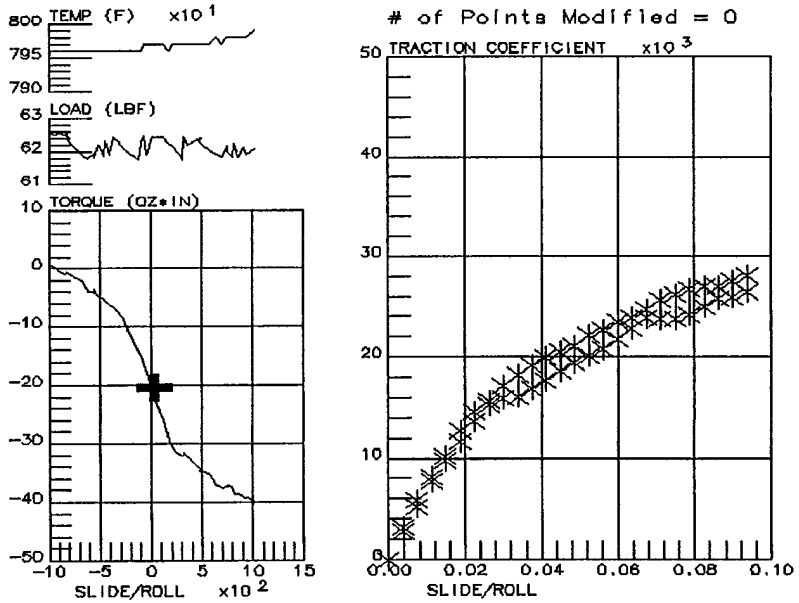


CM 93-172 PAO+16.5% 93-141 + Additives#6
80F 36LBF 1281RPM 6 FILE: cm801

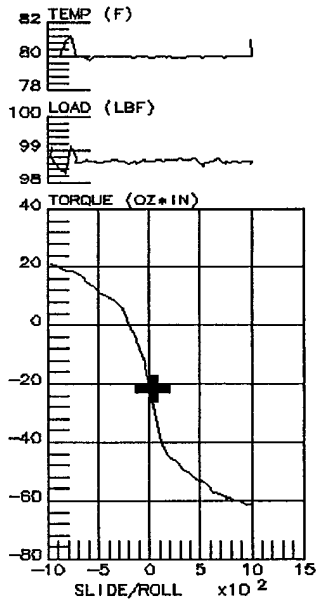


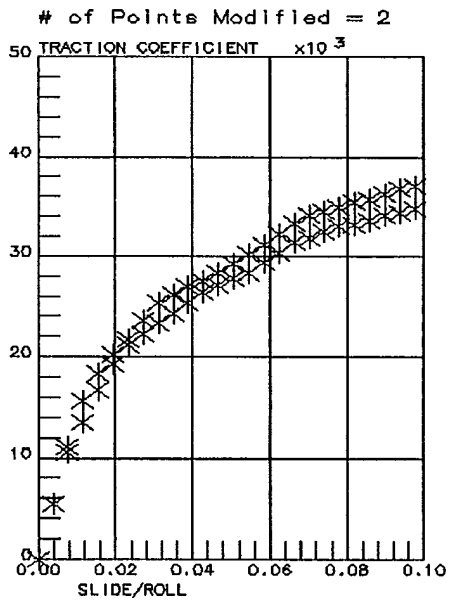


CM 93-172 PAO+16.5% 93-141 + Additives#7
80F 62LBF 1281RPM 7 FILE: cm801

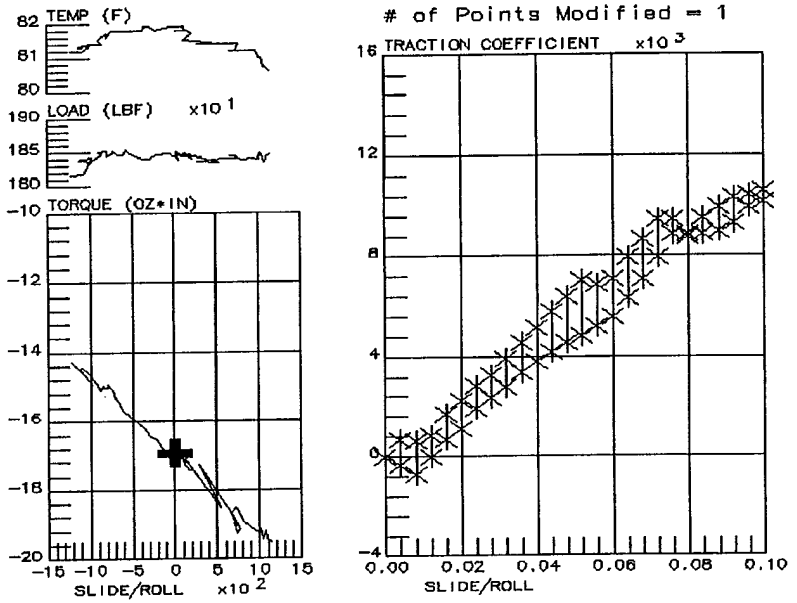


CM 93-172 PAO+16.5% 93-141 + Additives#8
80F 99LBF 1281RPM 8 FILE: cm801

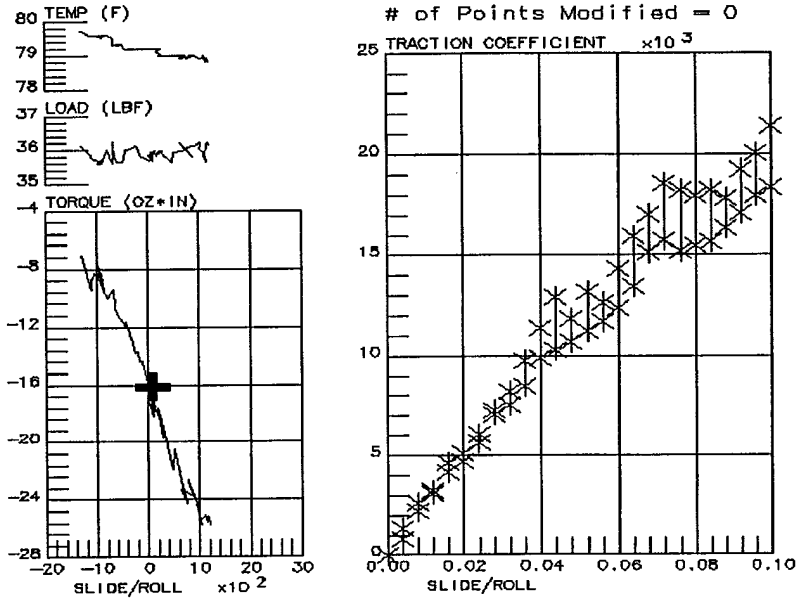




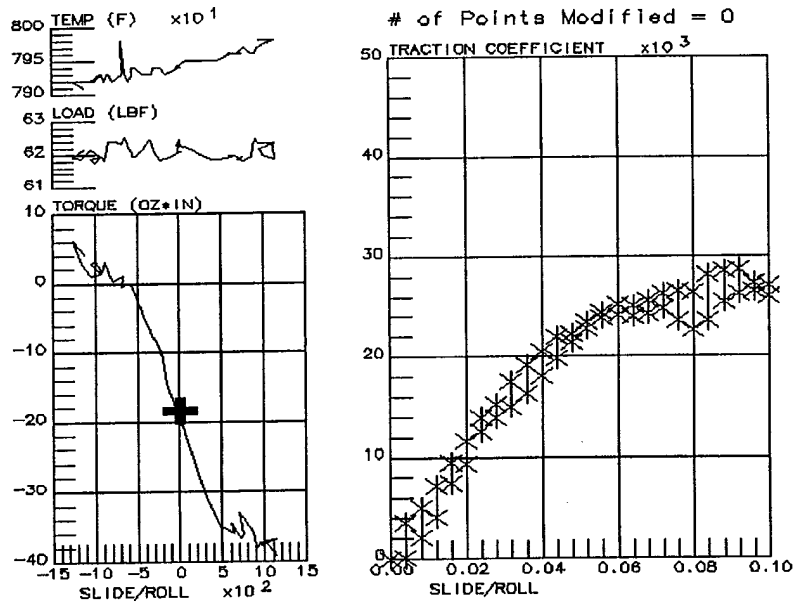
CM 93-172 PAO+16.5% 93-141 + Additives#9
80F 18LBF 310RPM 1 FILE: cm801x



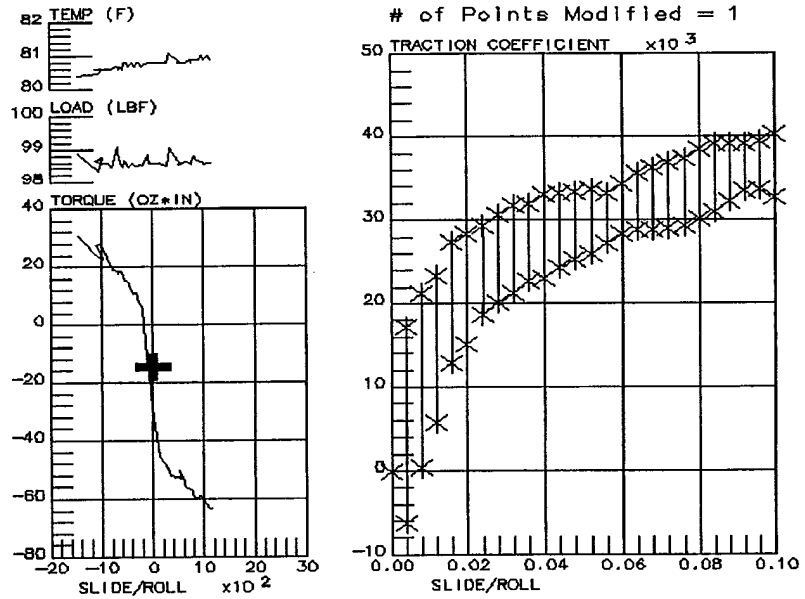
CM 93-172 PAO+16.5% 93-141 + Additives#10
80F 36LBF 310RPM 2 FILE: cm801x



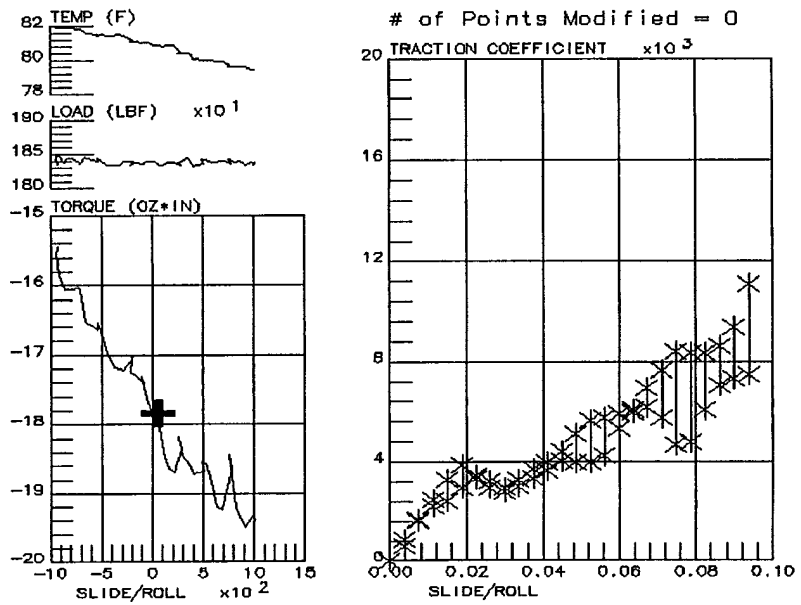
CM 93-172 PAO+16.5% 93-141 + Additives#11
80F 62LBF 310RPM 3 FILE: cm801x



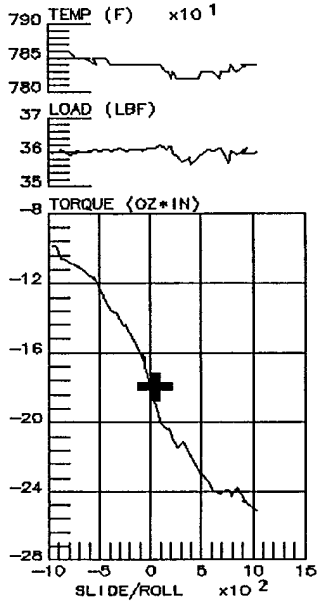
CM 93-172 PAO+16.5% 93-141 + Additives#12
80F 99LBF 310RPM 4 FILE: cm801x

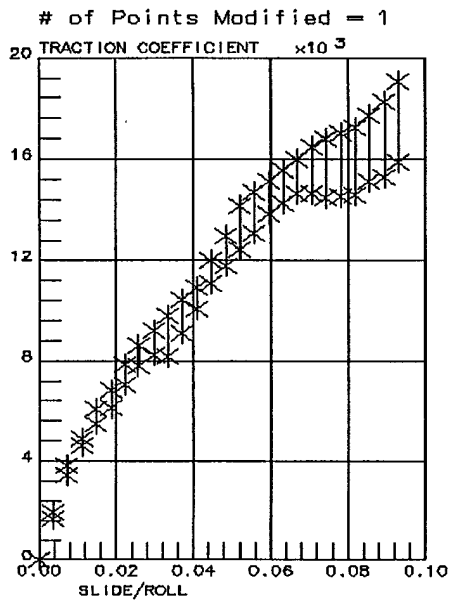


CM 93-172 PAO+16.5% 93-141 + Additives#13
80F 18LBF 2602RPM 1 FILE: cm80h



CM 93-172 PAO+16.5% 93-141 + Additives#14
80F 36LBF 2602RPM 2 FILE: cm80h





CM 93-172 PAO+16.5% 93-141 + Additives#15
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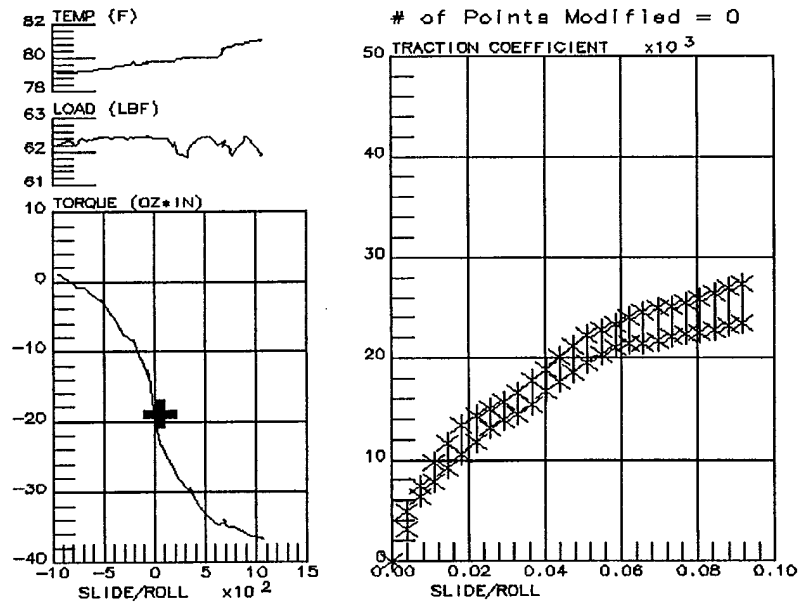
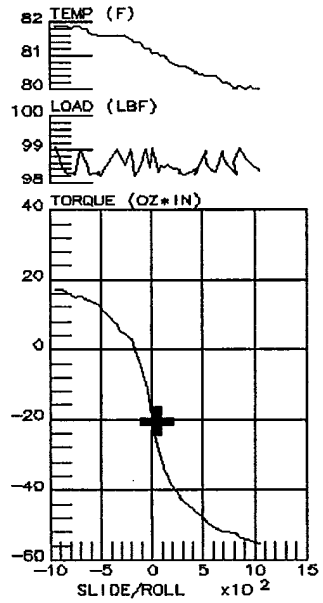
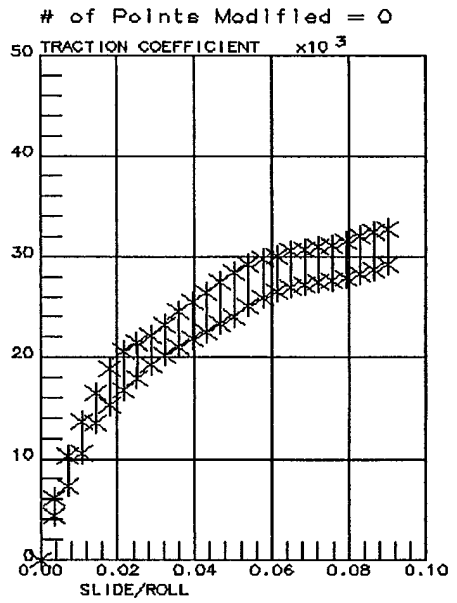
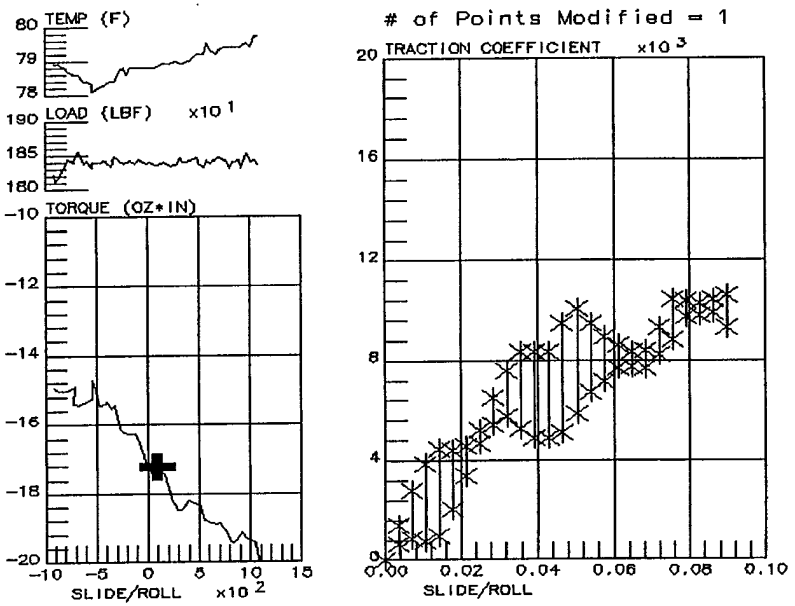


CM 93-172 PAO+16.5% 93-141 + Additives#16
80F 99LBF 2602RPM 4 FILE: cm80h

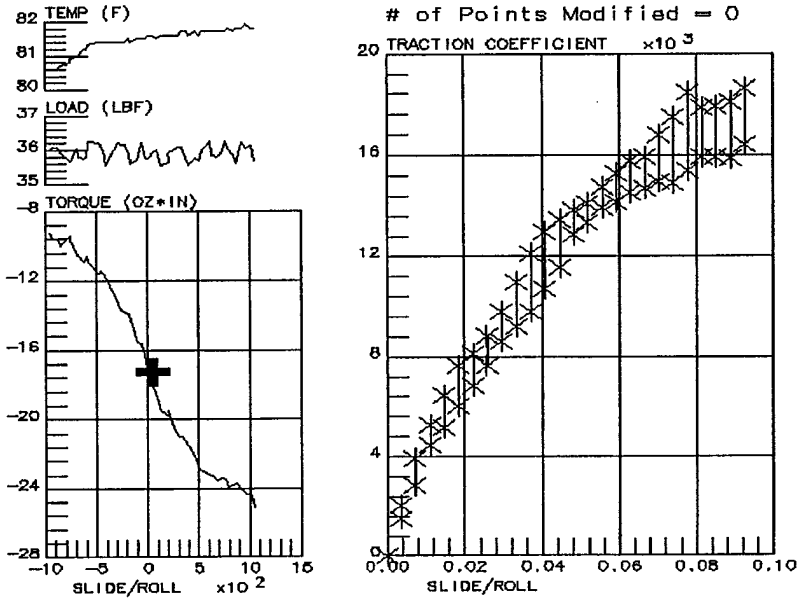




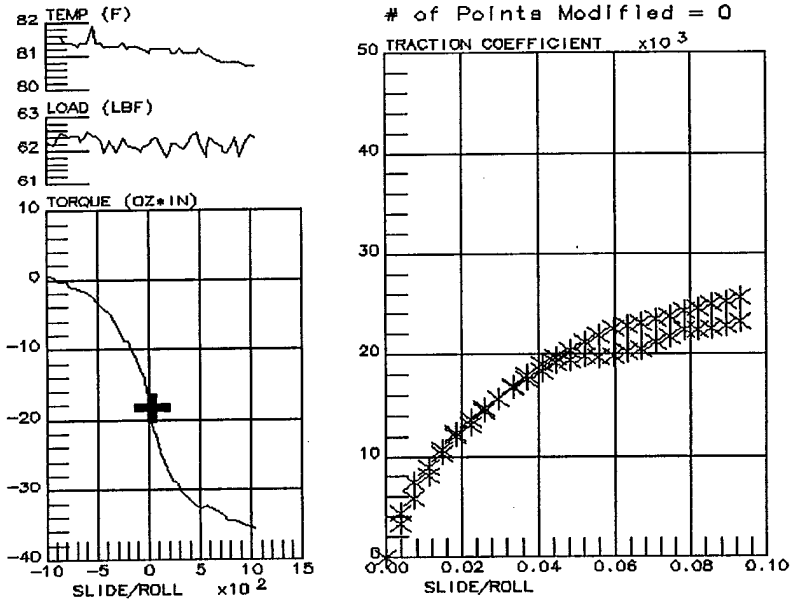
CM 93-172 PAO+16.5% 93-141 + Additives#17
80F 18LBF 5166RPM 5 FILE: cm80h



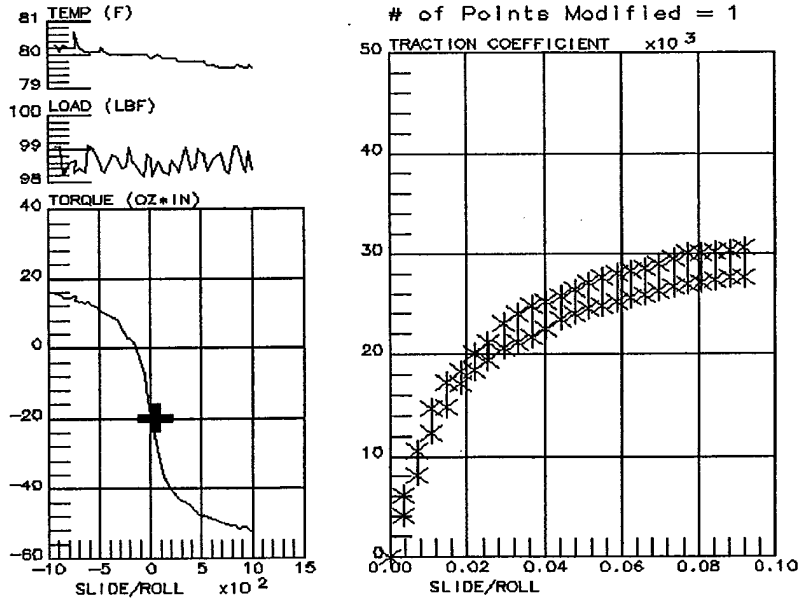
CM 93-172 PAO+16.5% 93-141 + Additives#18
80F 36LBF 5166RPM 6 FILE: cm80h



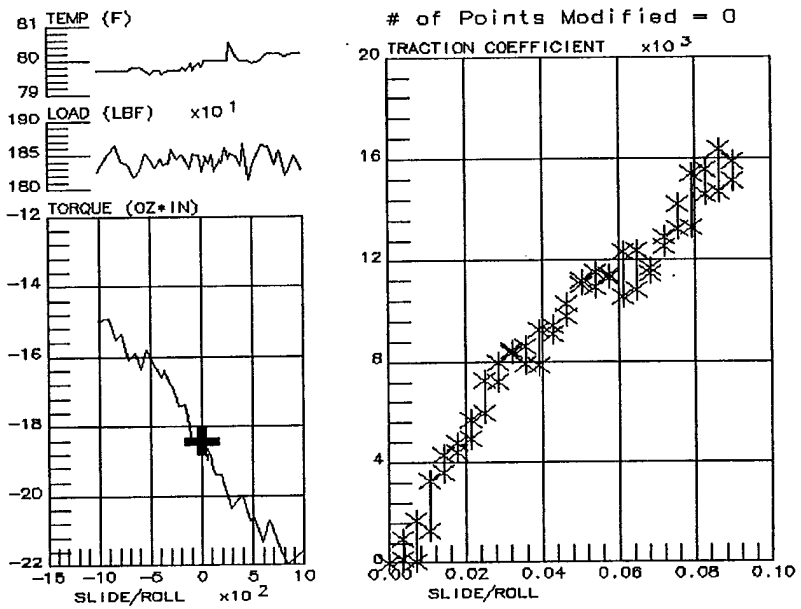
CM 93-172 PAO+16.5% 93-141 + Additives#19
80F 62LBF 5166RPM 7 FILE: cm80h



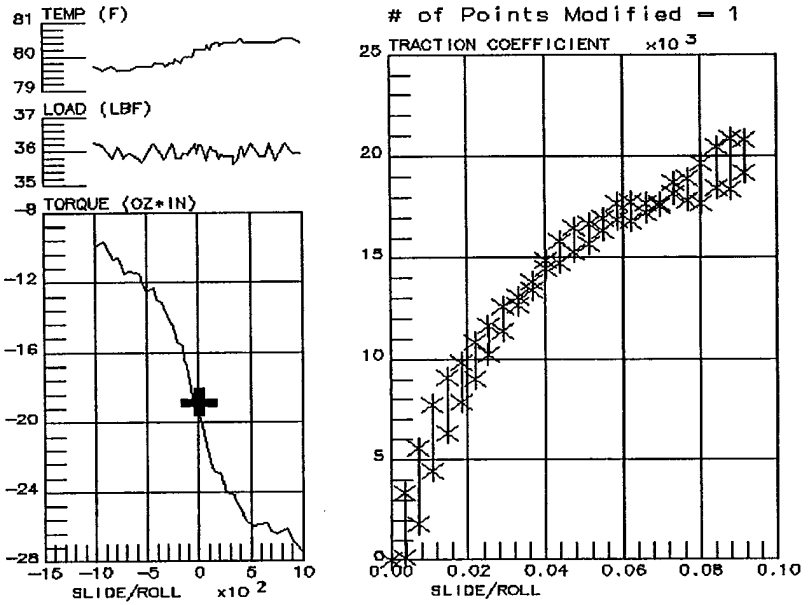
CM 93-172 PAO+16.5% 93-141 + Additives#20
80F 99LBF 5166RPM 8 FILE: cm80h



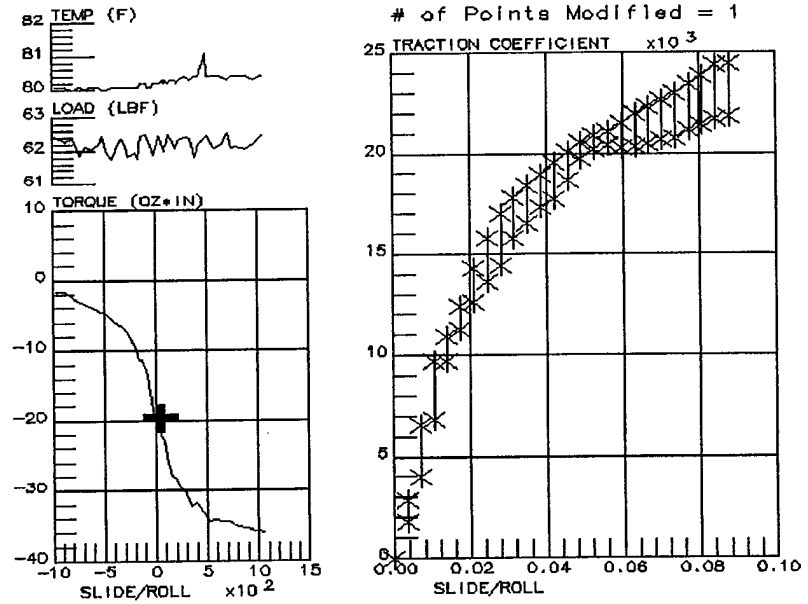
CM 93-172 PAO+16.5% 93-141 + Additives#21
80F 18LBF 7769RPM 9 FILE: cm80h



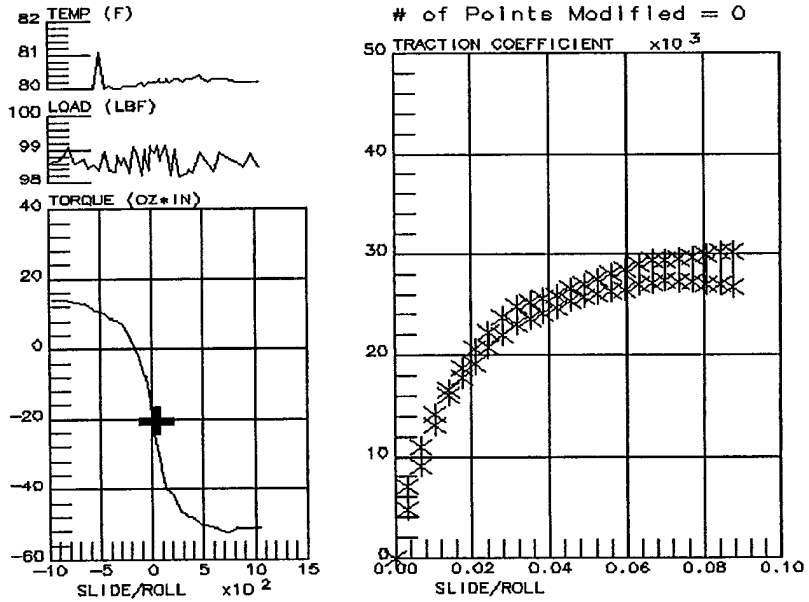
CM 93-172 PAO+16.5% 93-141 + Additives#22
80F 36LBF 7769RPM 10 FILE: cm80h



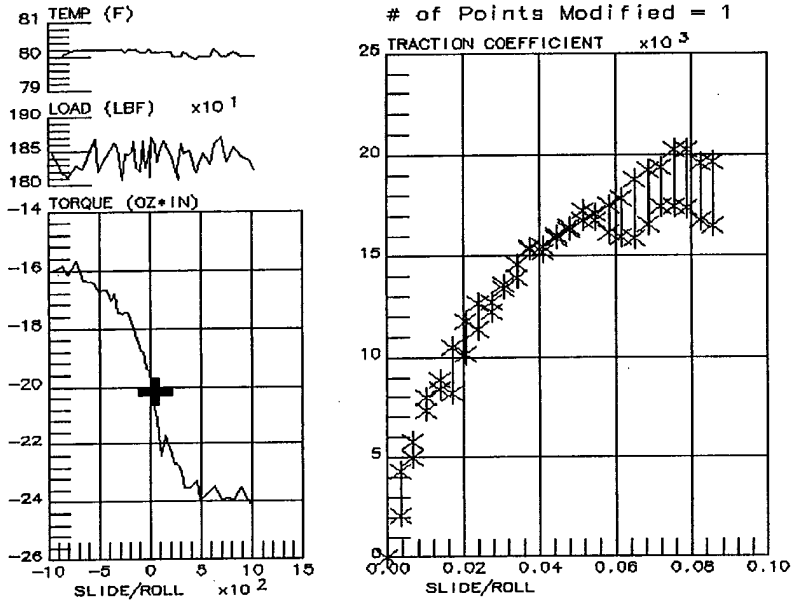
CM 93-172 PAO+16.5% 93-141 + Additives#23
80F 62LBF 7769RPM 11 FILE: cm80h



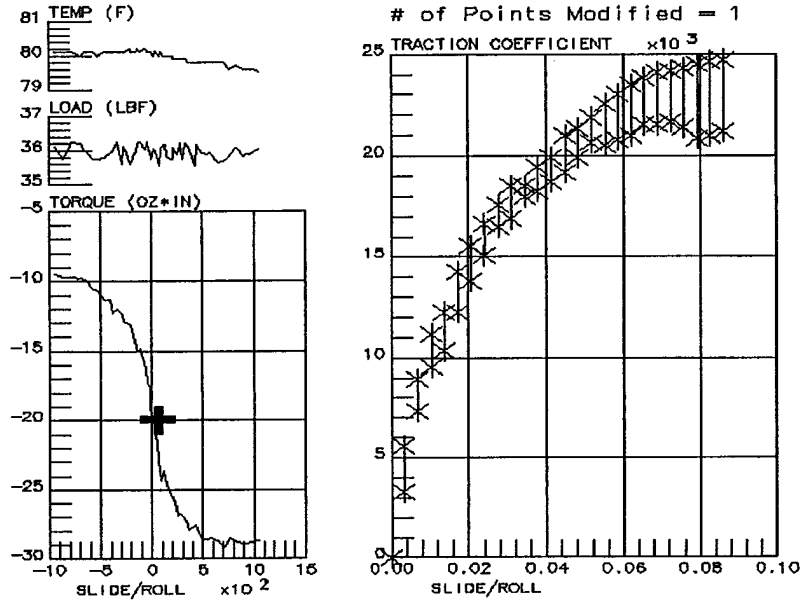
CM 93-172 PAO+16.5% 93-141 + Additives#24
80F 99LBF 7769RPM 12 FILE: cm80h



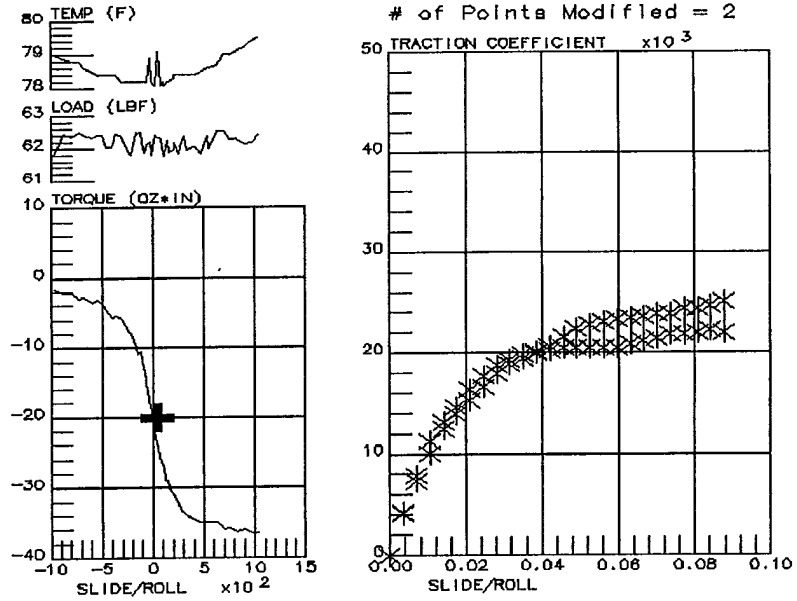
CM 93-172 PAO+16.5% 93-141 + Additives#25
80F 18LBF 10371RPM 13 FILE: cm80h



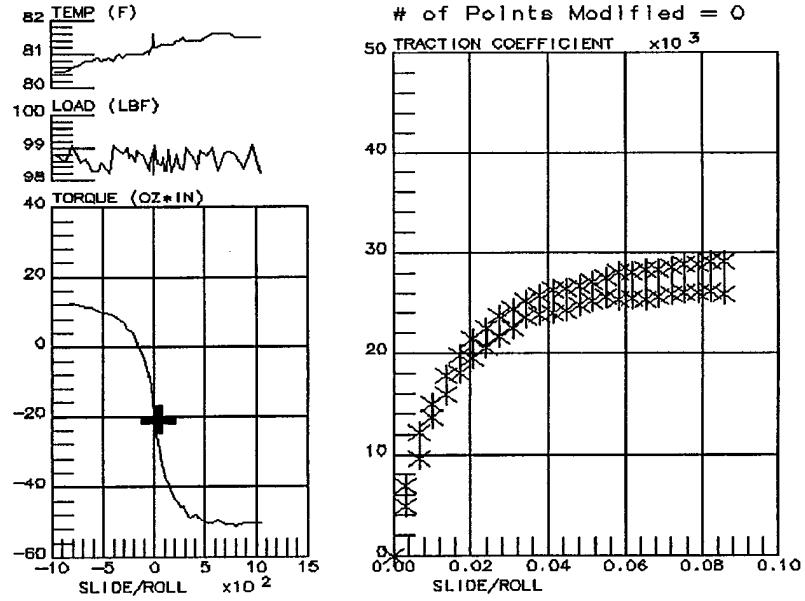
CM 93-172 PAO+16.5% 93-141 + Additives#26
80F 36LBF 10371RPM 14 FILE: cm80h



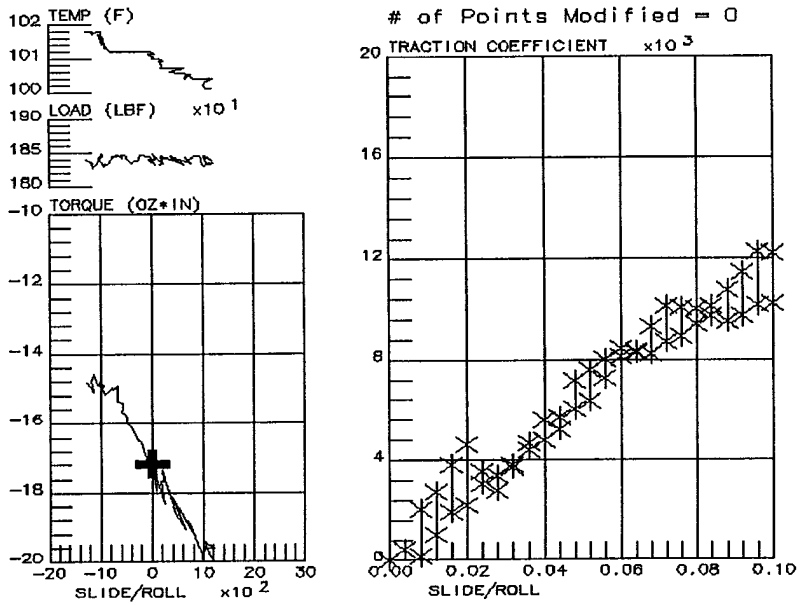
CM 93-172 PAO+16.5% 93-141 + Additives#27
80F 62LBF 10371RPM 15 FILE: cm80h



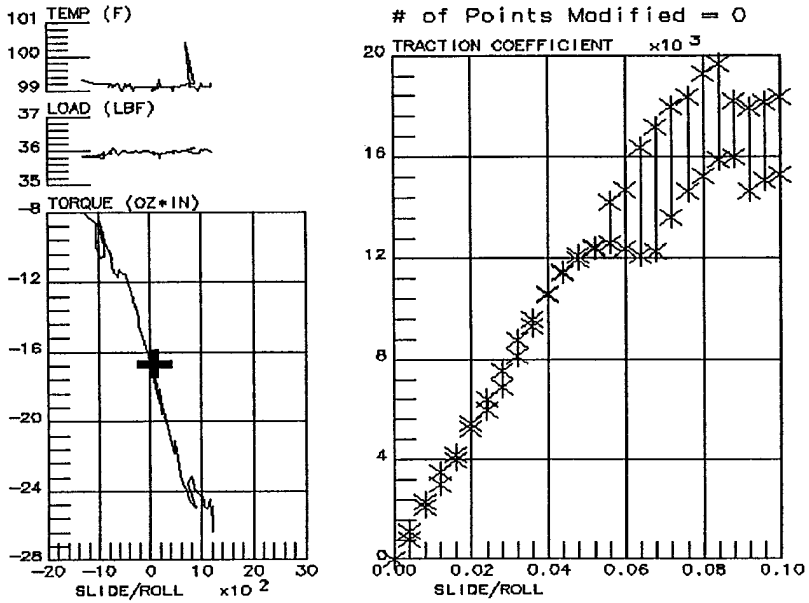
CM 93-172 PAO+16.5% 93-141 + Additives#28
80F 99LBF 10371RPM 16 FILE: cm80h



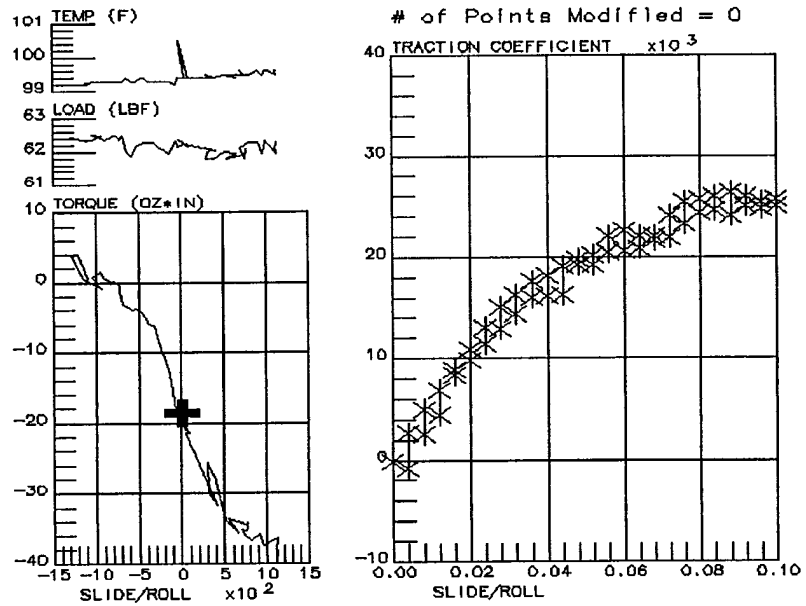
CM 93-172 PAO+16.5% 93-141 + Additives#29
100F 18LBF 310RPM 1 FILE: cm1001



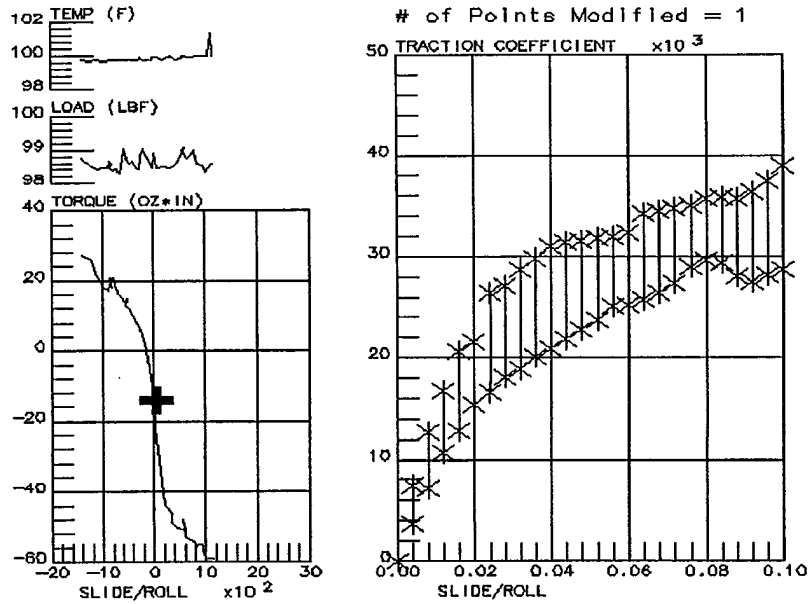
CM 93-172 PAO+16.5% 93-141 + Additives#30
100F 36LBF 310RPM 2 FILE: cm1001



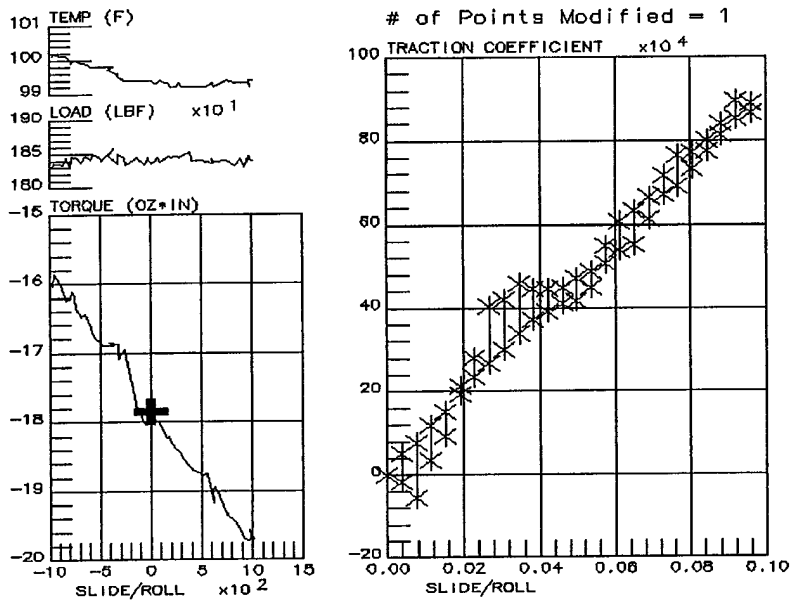
CM 93-172 PAO+16.5% 93-141 + Additives#31
100F 62LBF 310RPM 3 FILE: cm1001



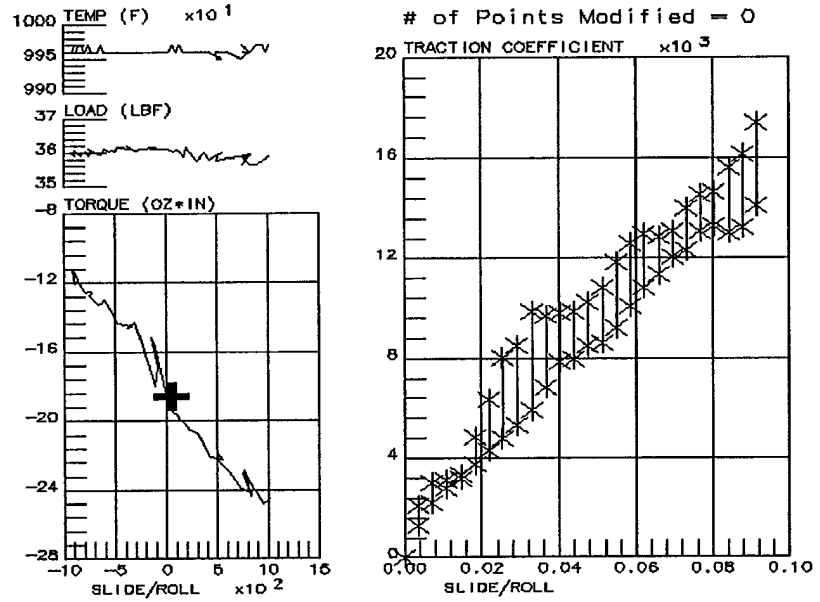
CM 93-172 PAO+16.5% 93-141 + Additives#32
100F 99LBF 310RPM 4 FILE: cm1001



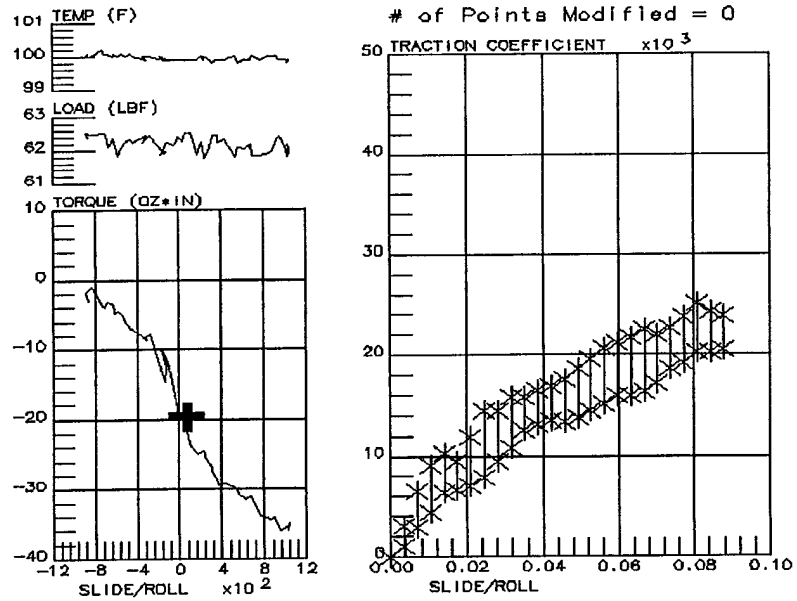
CM 93-172 PAO+16.5% 93-141 + Additives#33
100F 18LBF 660RPM 5 FILE: cm1001



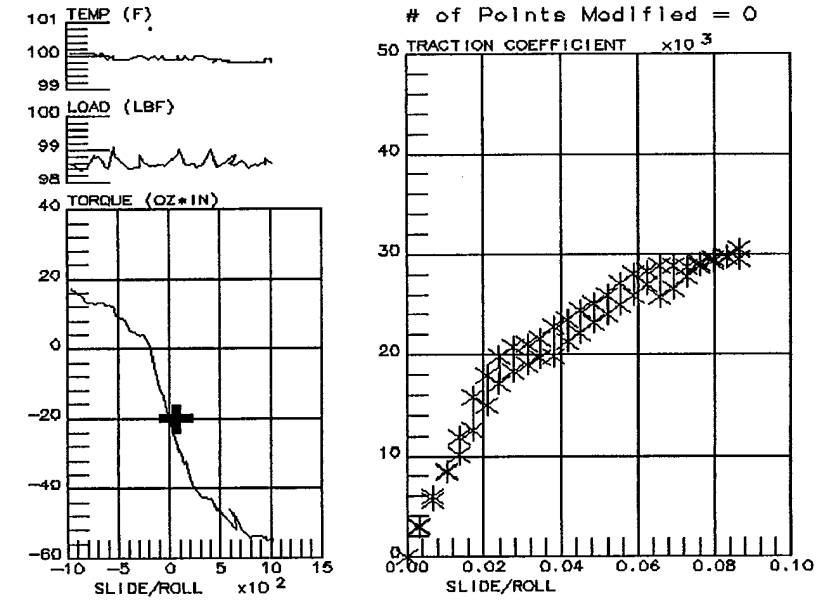
CM 93-172 PAO+16.5% 93-141 + Additives#34
100F 36LBF 660RPM 6 FILE: cm1001



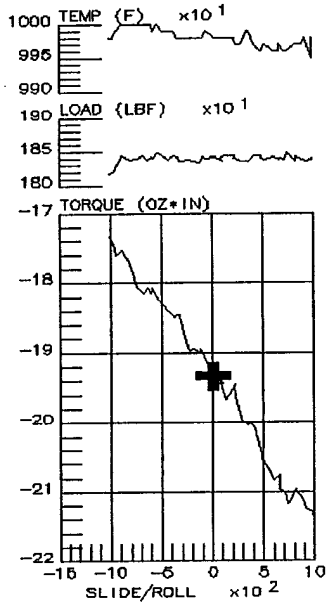
CM 93-172 PAO+16.5% 93-141 + Additives#35
100F 62LBF 660RPM 7 FILE: cm1001

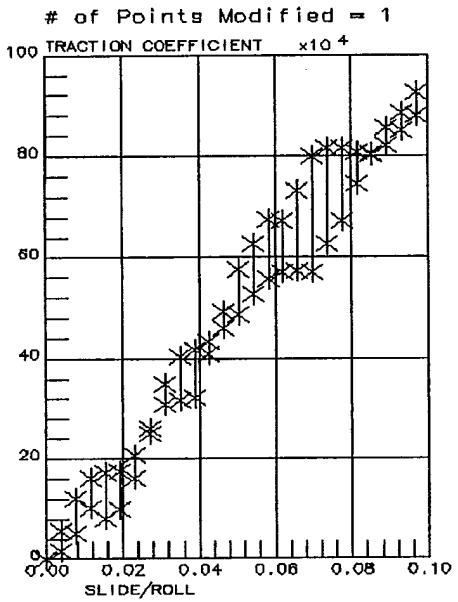


CM 93-172 PAO+16.5% 93-141 + Additives#36
100F 99LBF 660RPM 8 FILE: cm1001

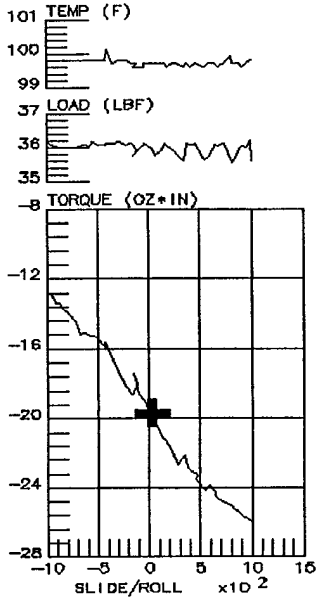


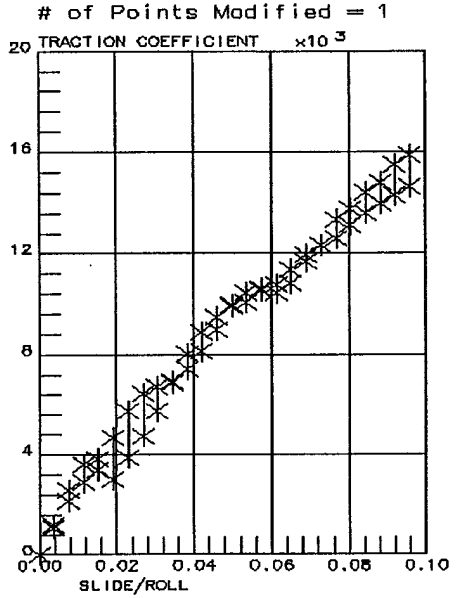
CM 93-172 PAO+16.5% 93-141 + Additives#37
100F 18LBF 1281RPM 9 FILE: cm1001



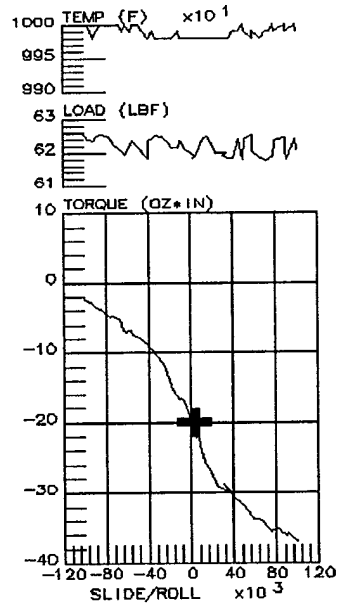


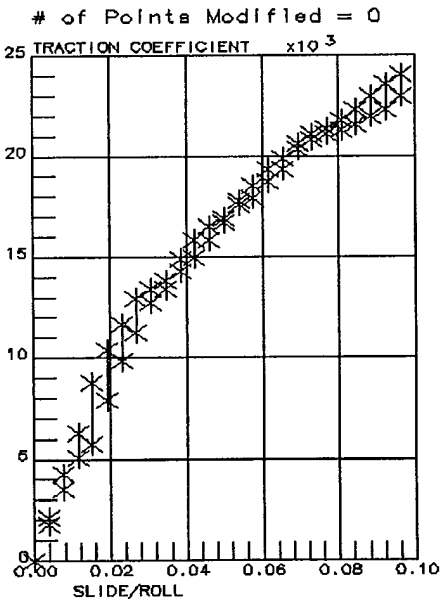
CM 93-172 PAO+16.5% 93-141 + Additives#38
100F 36LBF 1281RPM 10 FILE: cm1001



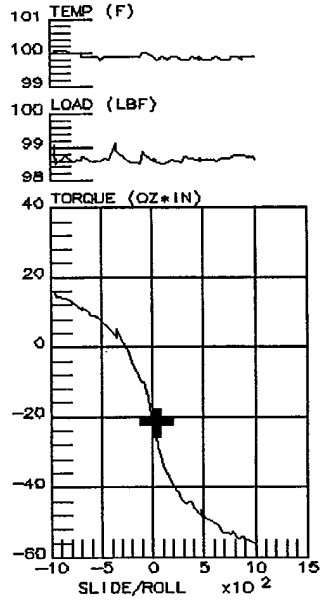


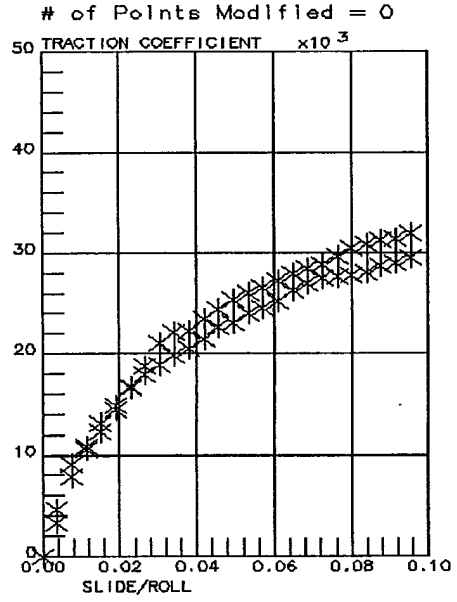
CM 93-172 PAO+16.5% 93-141 + Additives#39
100F 62LBF 1281RPM 11 FILE: cm1001



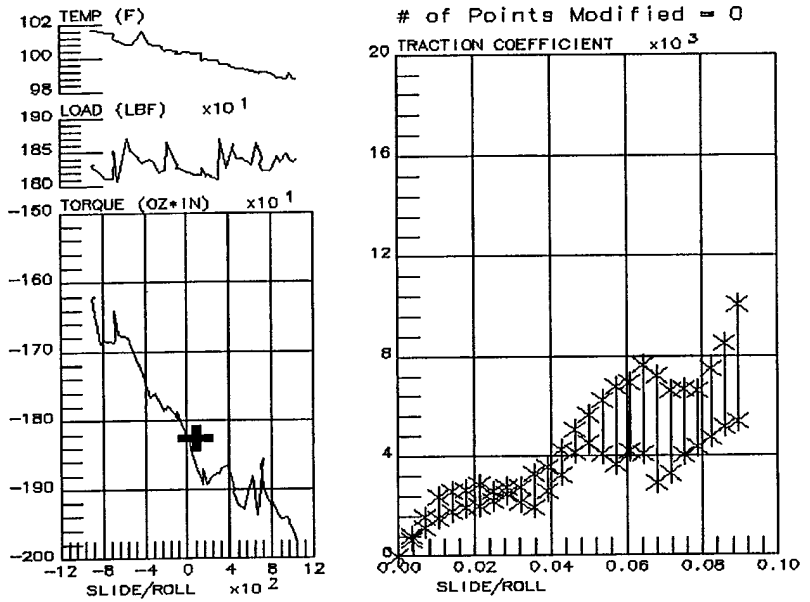


CM 93-172 PAO+16.5% 93-141 + Additives#40
100F 99LBF 1281RPM 12 FILE: cm1001

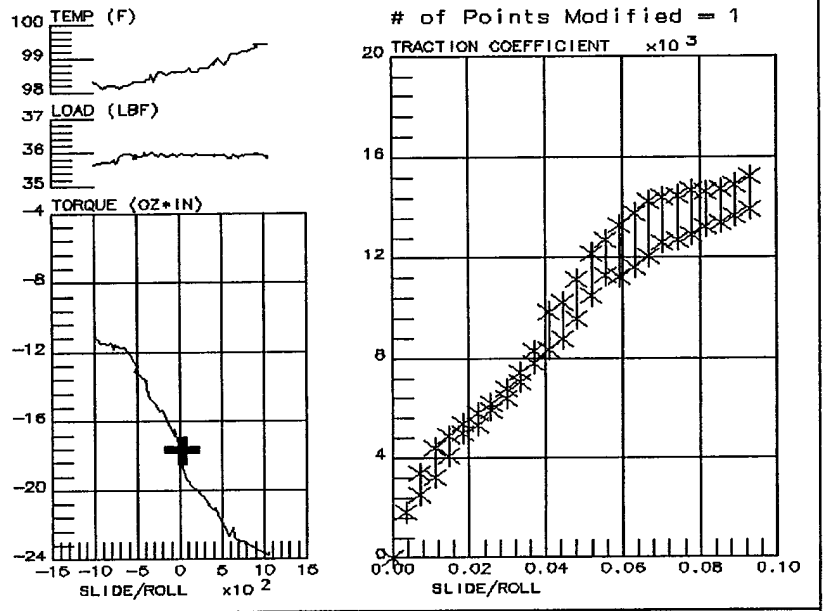




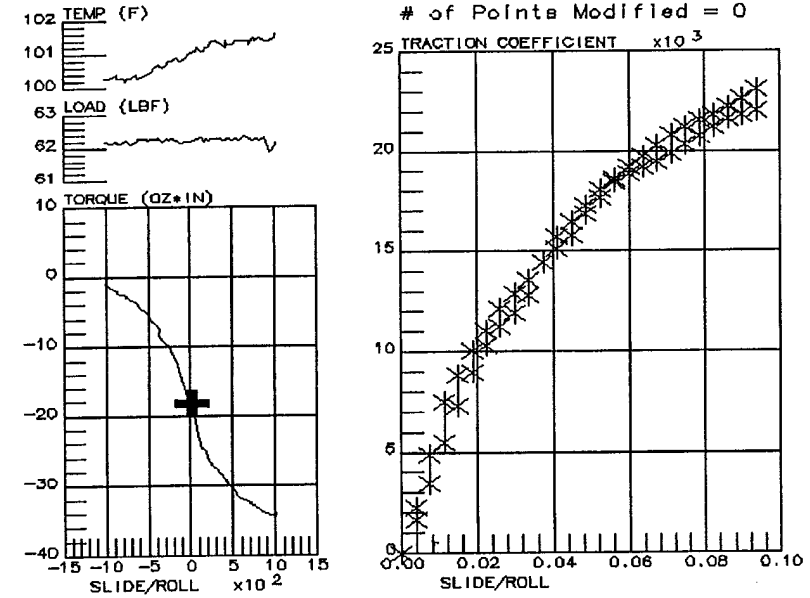
CM 93-172 PAO+16.5% 93-141 + Additives#41
100F 18LBF 2602RPM 1 FILE: cm100h



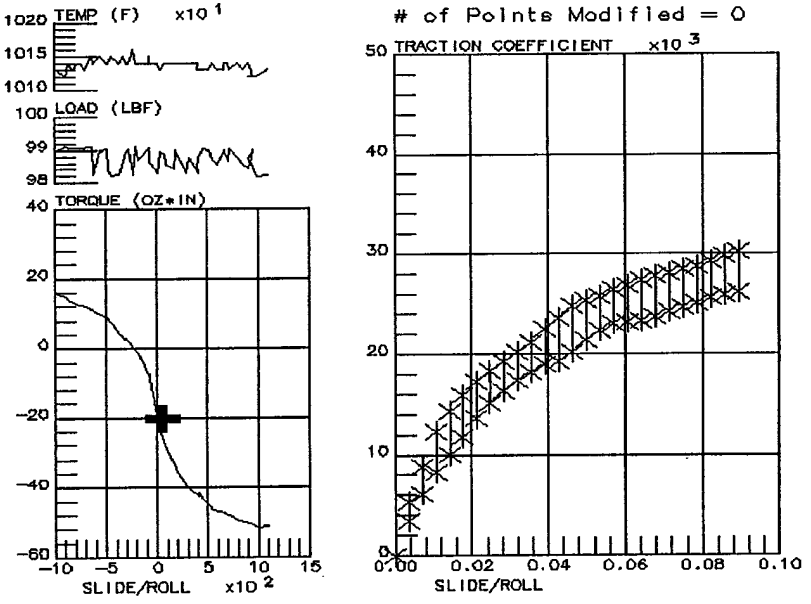
CM 93-172 PAO+16.5% 93-141 + Additives#42
100F 36LBF 2602RPM 2 FILE: cm100h



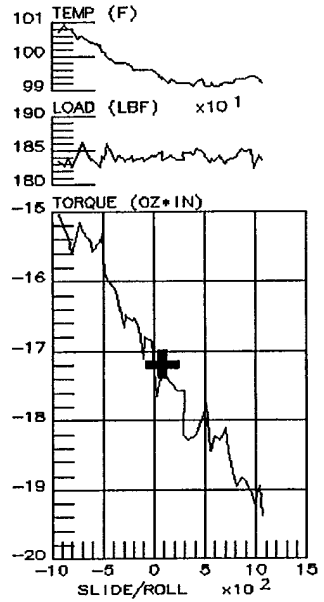
CM 93-172 PAO+16.5% 93-141 + Additives#43
100F 62LBF 2602RPM 3 FILE: cm100h



CM 93-172 PAO+16.5% 93-141 + Additives#44
100F 99LBF 2602RPM 4 FILE: cm100h



CM 93-172 PAO+16.5% 93-141 + Additives#45
100F 18LBF 5166RPM 5 FILE: cm100h



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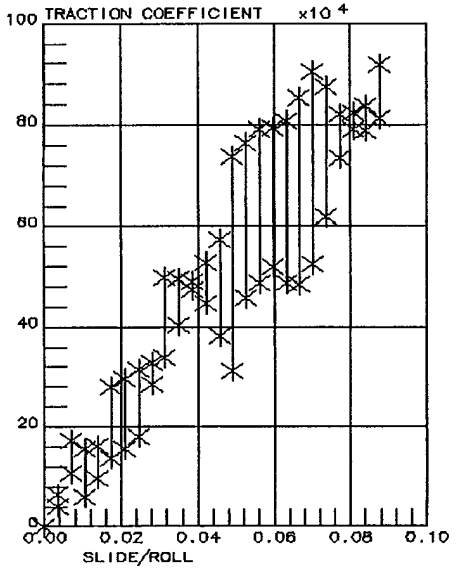
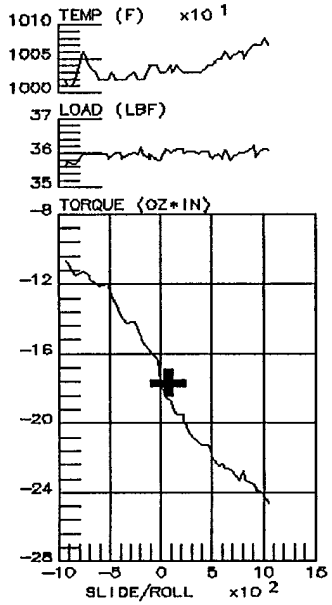


CM 93-172 PAO+16.5% 93-141 + Additives#46
100F 36LBF 5166RPM 6 FILE: cm100h



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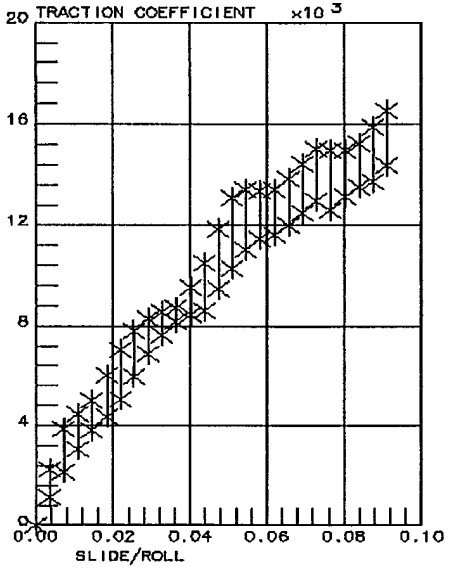
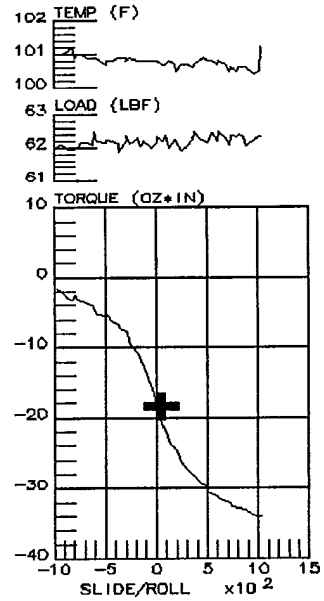


CM 93-172 PAO+16.5% 93-141 + Additives#47
100F 62LBF 5166RPM 7 FILE: cm100h



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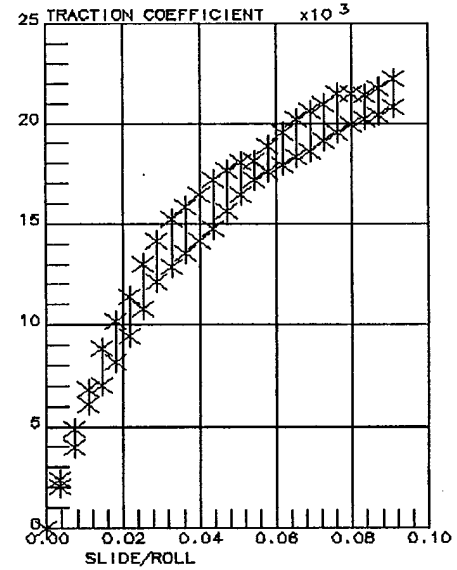
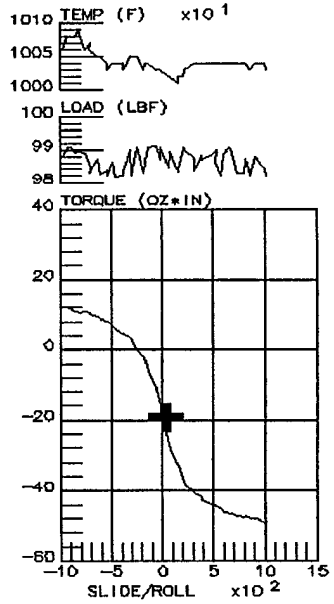


CM 93-172 PAO+16.5% 93-141 + Additives#48
100F 99LBF 5166RPM 8 FILE: cm100h



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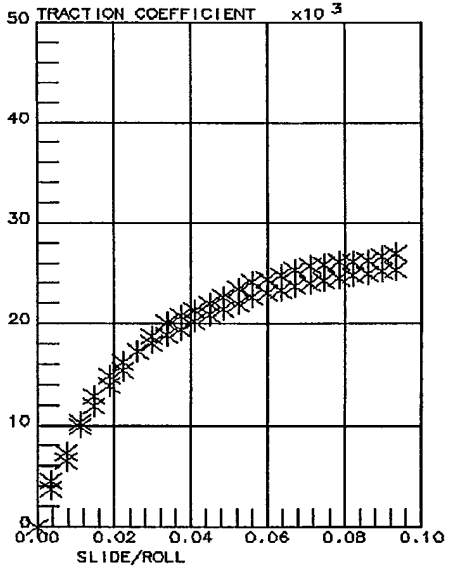
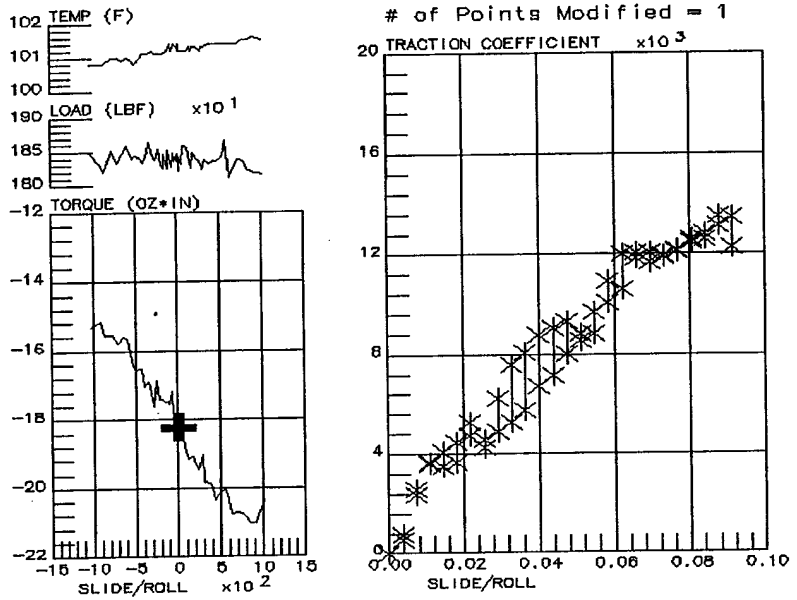
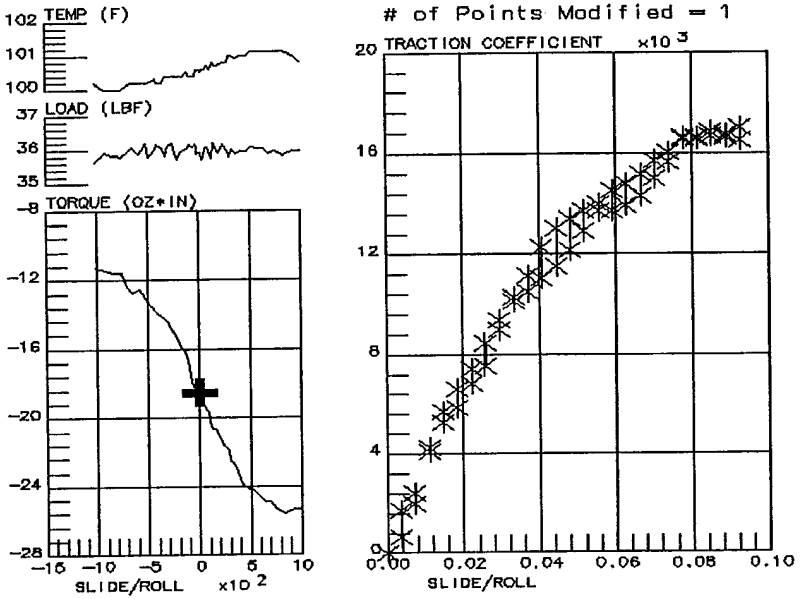


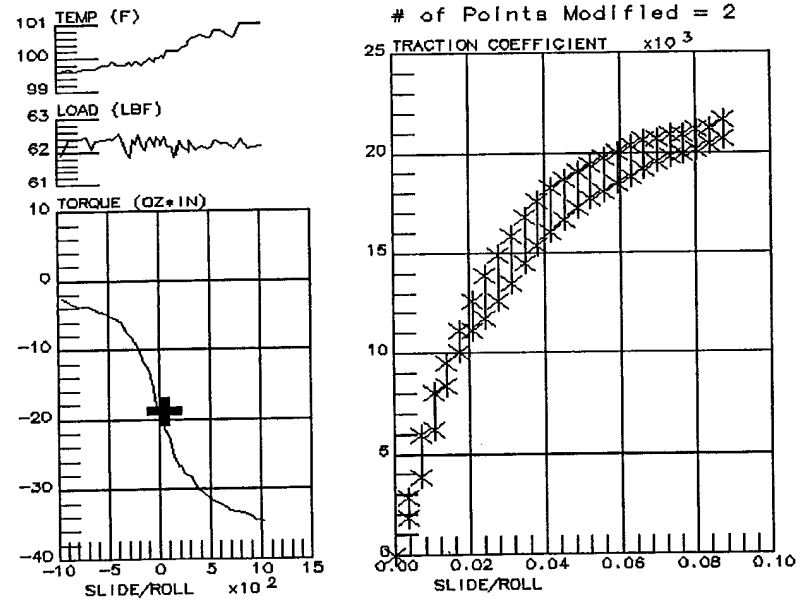
CM 93-172 PAO+16.5% 93-141 + Additives#49
100F 18LBF 7769RPM 9 FILE: cm100h



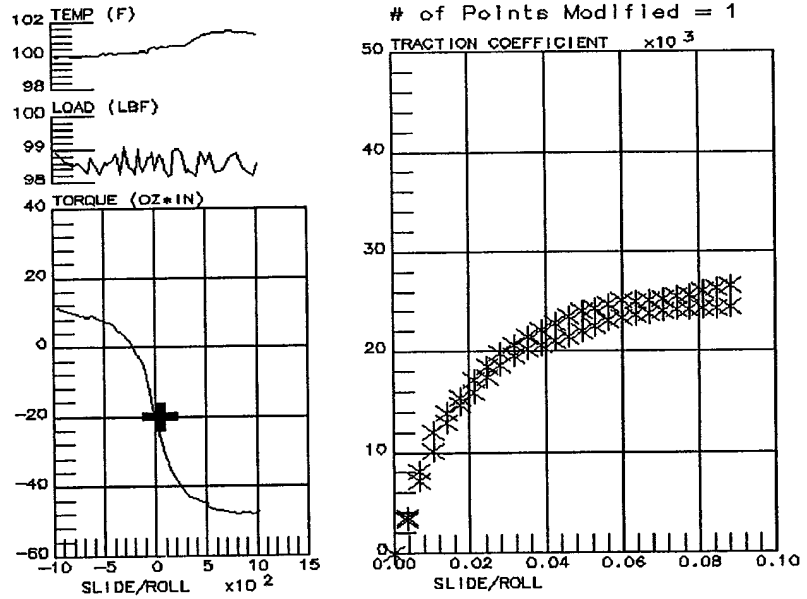
CM 93-172 PAO+16.5% 93-141 + Additives#50
100F 36LBF 7769RPM 10 FILE: cm100h



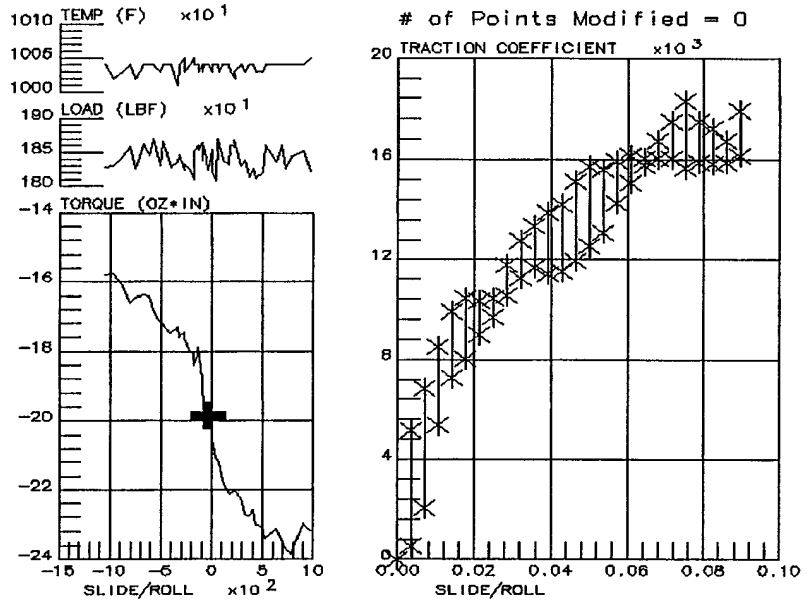
CM 93-172 PAO+16.5% 93-141 + Additives#51
100F 62LBF 7769RPM 11 FILE: cm100h



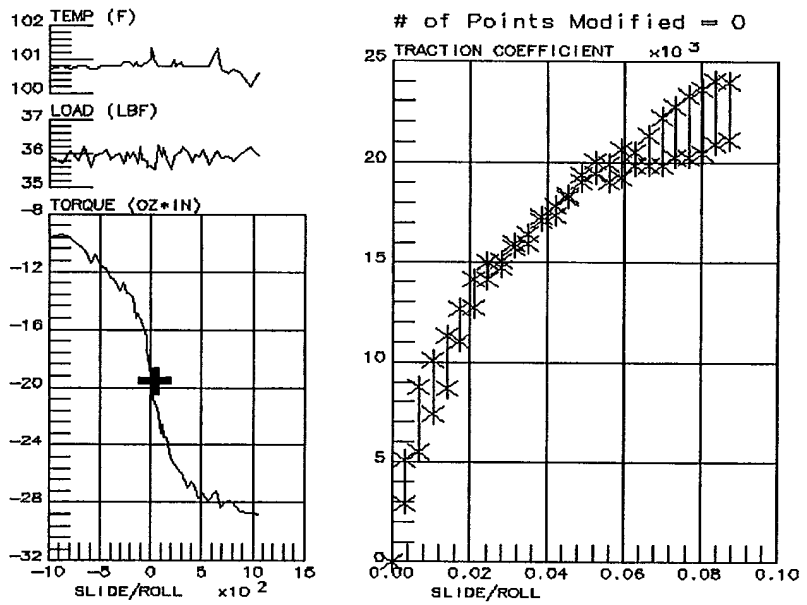
CM 93-172 PAO+16.5% 93-141 + Additives#52
100F 99LBF 7769RPM 12 FILE: cm100h



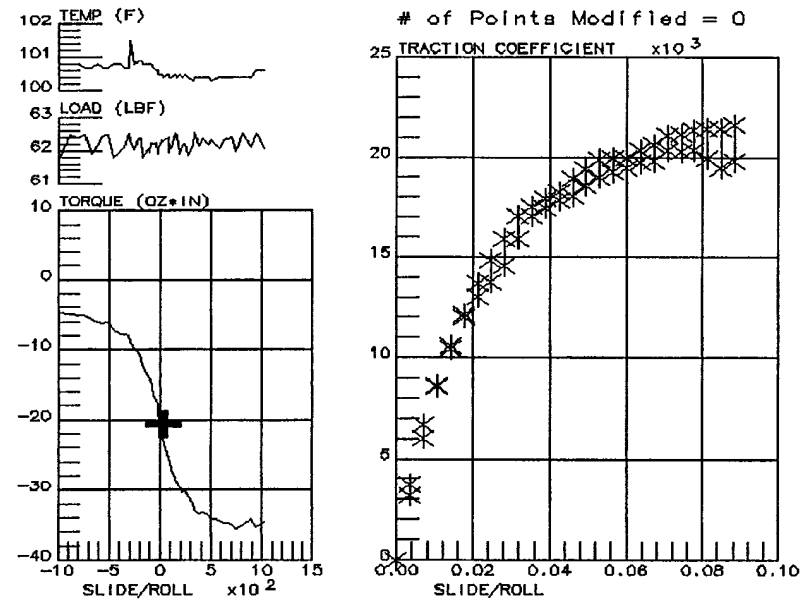
CM 93-172 PAO+16.5% 93-141 + Additives#53
100F 18LBF 10371RPM 13 FILE: cm100h



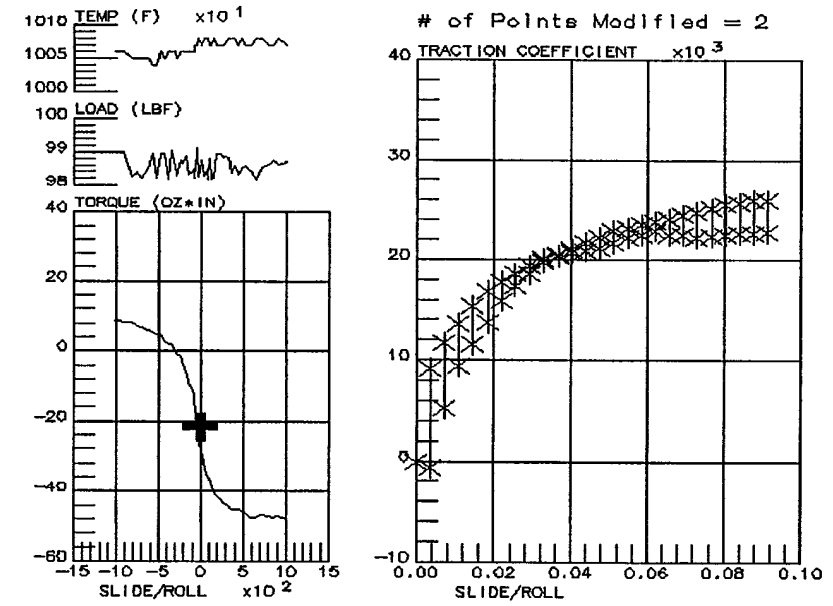
CM 93-172 PAO+16.5% 93-141 + Additives#54
100F 38LBF 10371RPM 14 FILE: cm100h



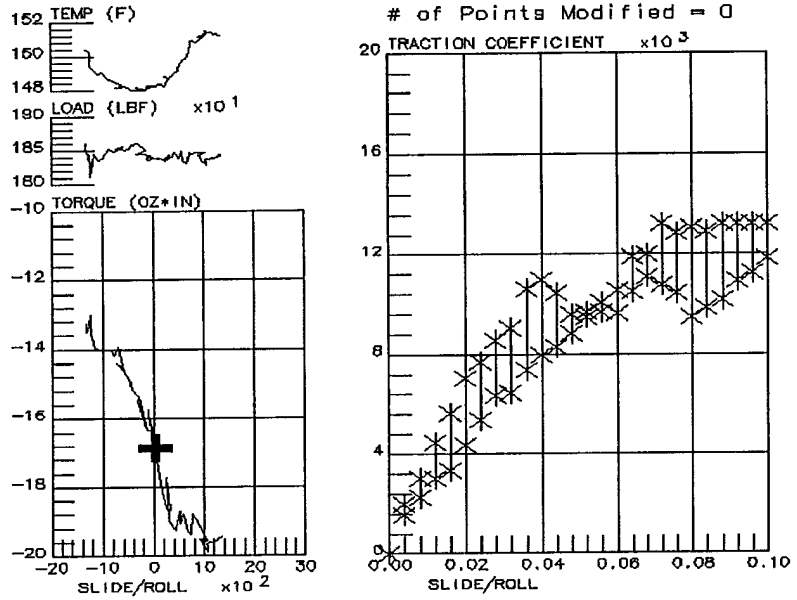
CM 93-172 PAO+16.5% 93-141 + Additives#55
100F 62LBF 10371RPM 15 FILE: cm100h



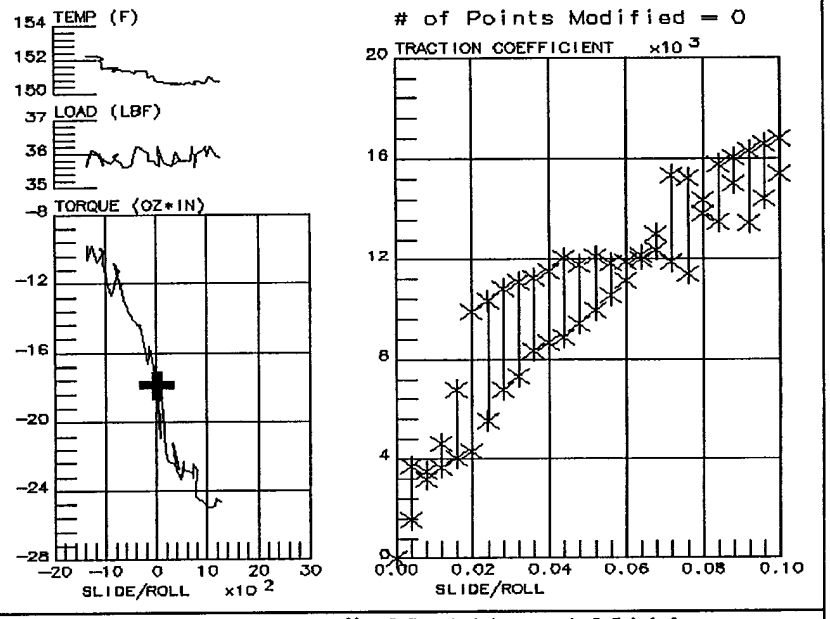
CM 93-172 PAO+16.5% 93-141 + Additives#56
100F 99LBF 10371RPM 16 FILE: cm100h



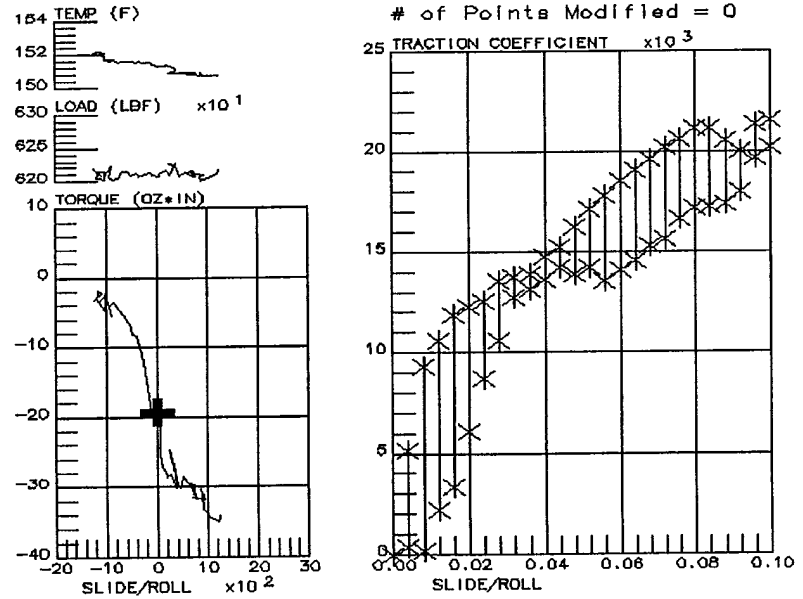
CM 93-172 PAO+16.5% 93-141 + Additives#57
150F 18LBF 310RPM 1 FILE: cm1501



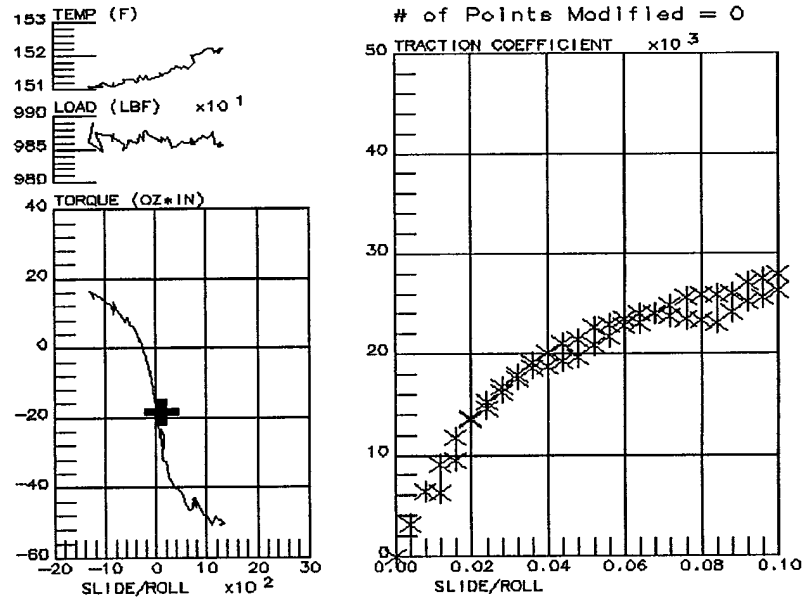
CM 93-172 PAO+16.5% 93-141 + Additives#58
150F 36LBF 310RPM 2 FILE: cm1501



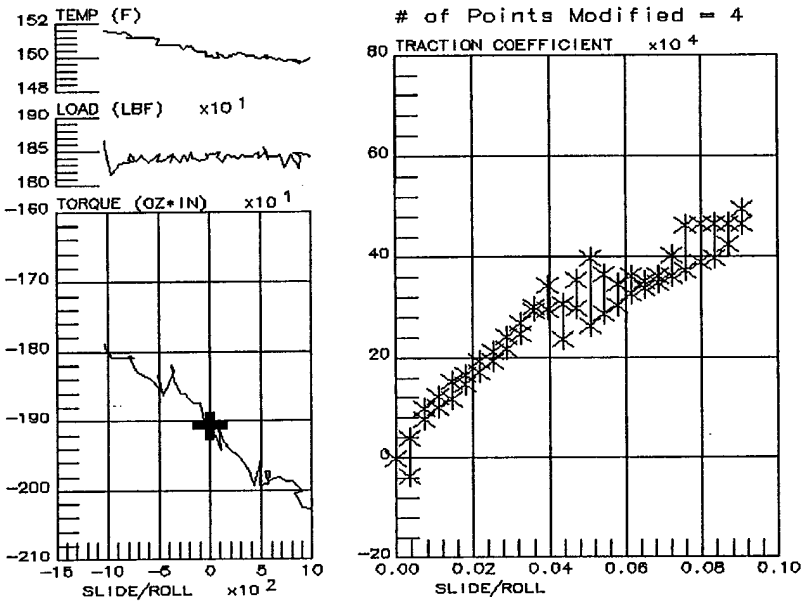
CM 93-172 PAO+16.5% 93-141 + Additives#59
150F 62LBF 310RPM 3 FILE: cm1501



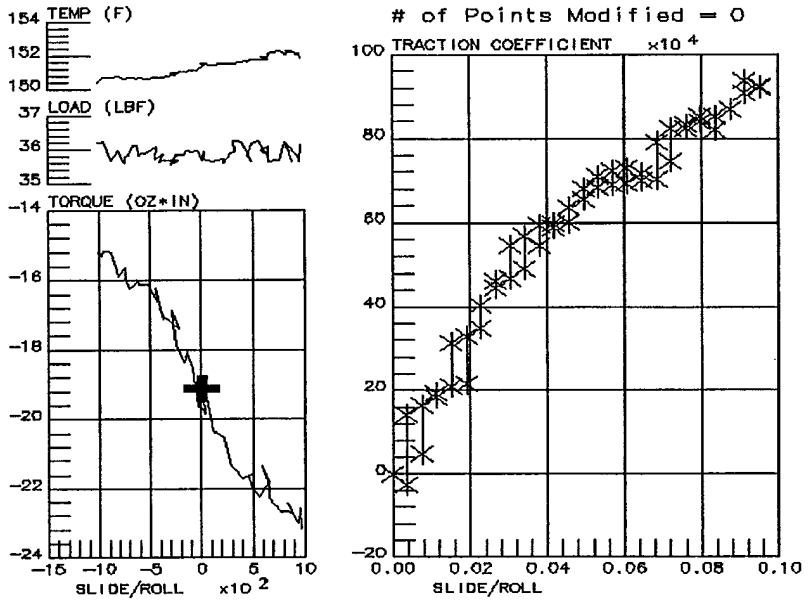
CM 93-172 PAO+16.5% 93-141 + Additives#60
150F 99LBF 310RPM 4 FILE: cm1501



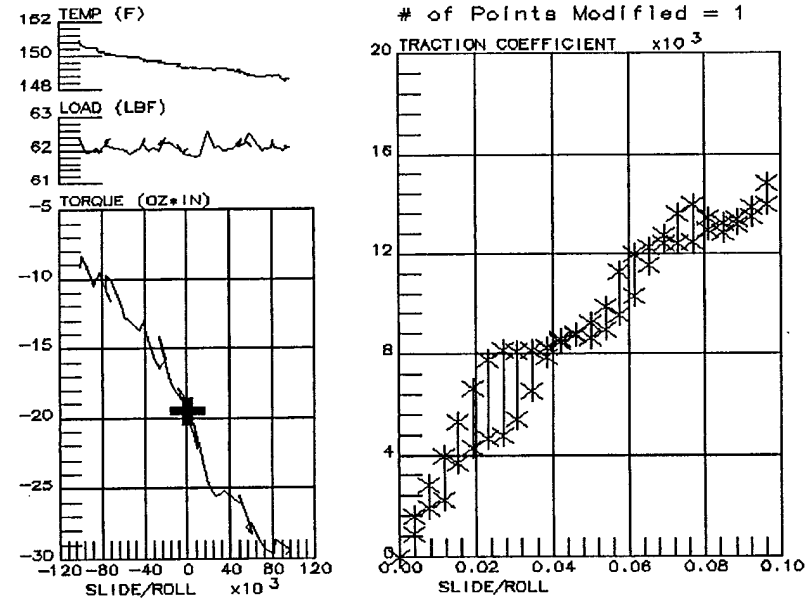
CM 93-172 PAO+16.5% 93-141 + Additives#61
150F 18LBF 660RPM 5 FILE: cm1501



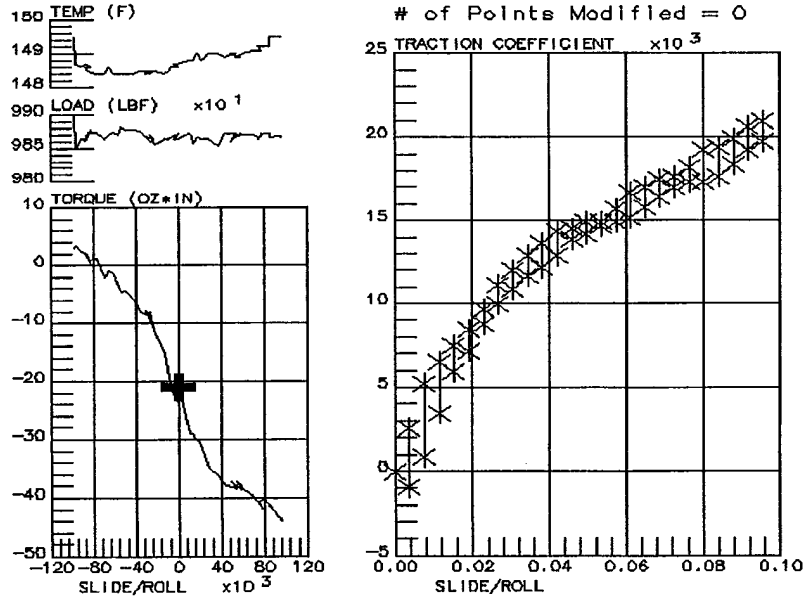
CM 93-172 PAO+16.5% 93-141 + Additives#62
150F 36LBF 660RPM 6 FILE: cm1501



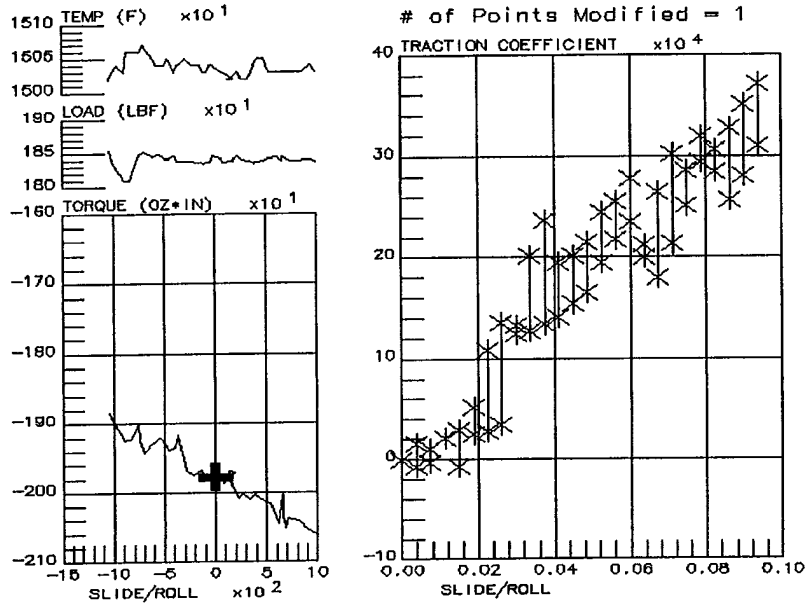
CM 93-172 PAO+16.5% 93-141 + Additives#63
150F 62LBF 660RPM 7 FILE: cm1501



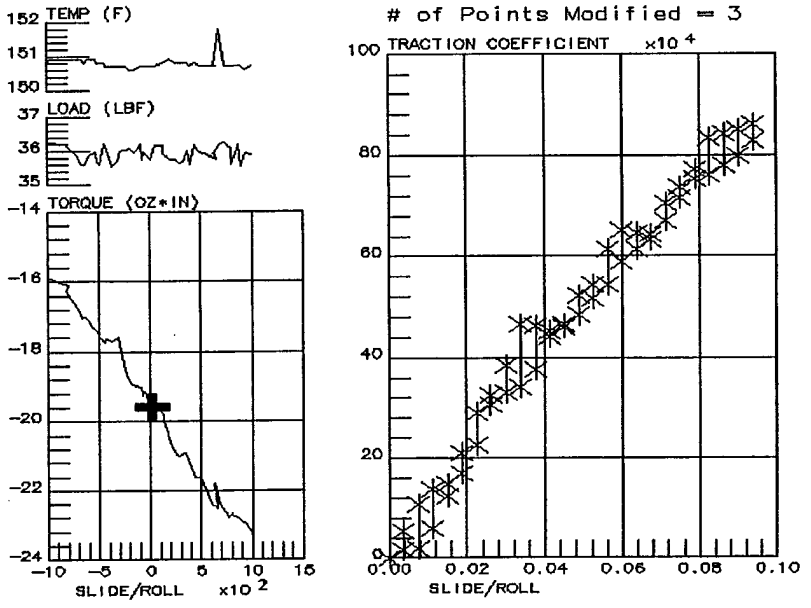
CM 93-172 PAO+16.5% 93-141 + Additives#64
150F 99LBF 660RPM 8 FILE: cm1501



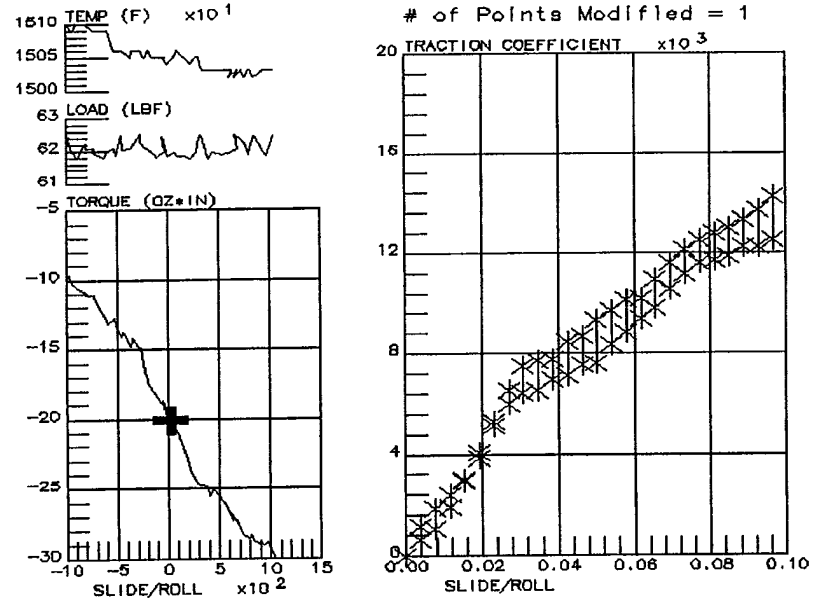
CM 93-172 PAO+16.5% 93-141 + Additives#65
150F 18LBF 1281RPM 9 FILE: cm1501



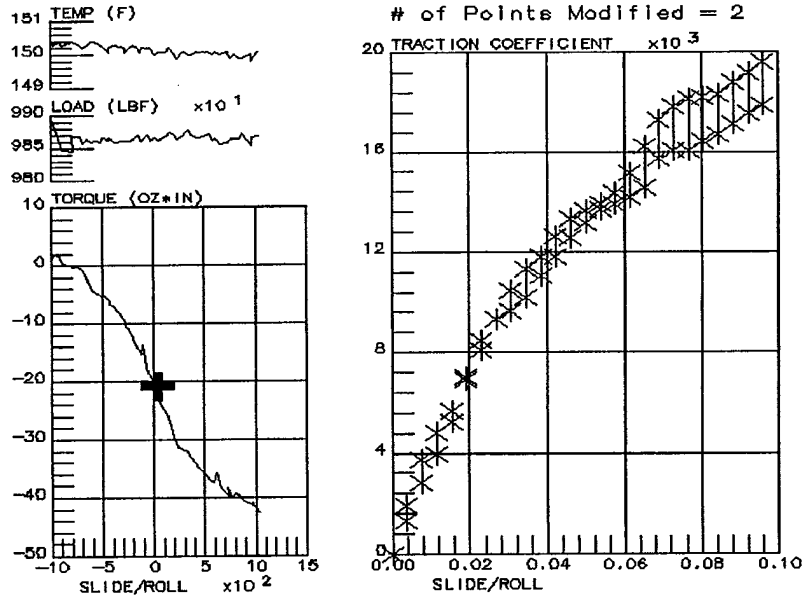
CM 93-172 PAO+16.5% 93-141 + Additives#66
150F 38LBF 1281RPM 10 FILE: cm1501



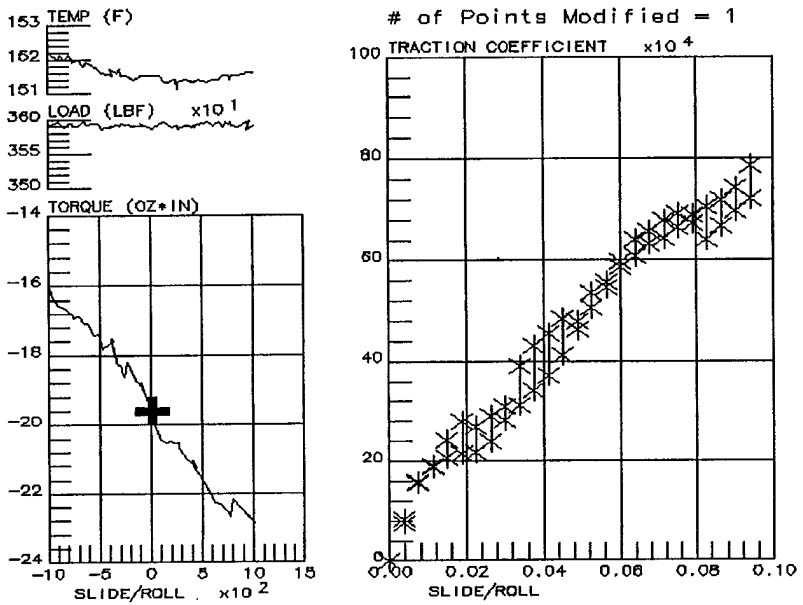
CM 93-172 PAO+16.5% 93-141 + Additives#67
150F 62LBF 1281RPM 11 FILE: cm1501



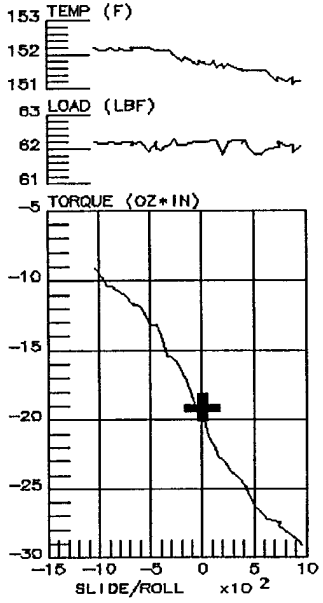
CM 93-172 PAO+16.5% 93-141 + Additives#68
150F 99LBF 1281RPM 12 FILE: cm1501

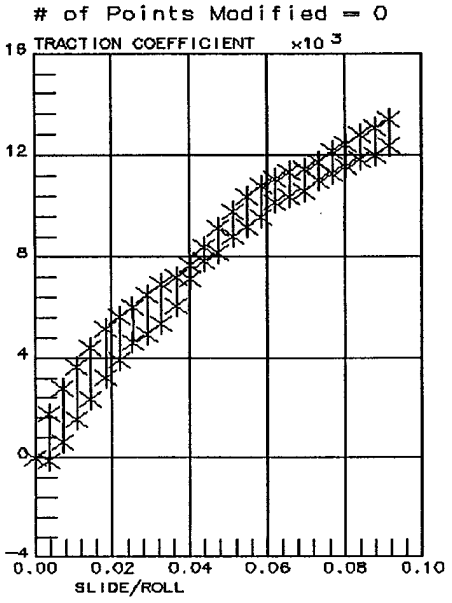


CM 93-172 PAO+16.5% 93-141 + Additives#69
150F 36LBF 2602RPM 1 FILE: cm150h

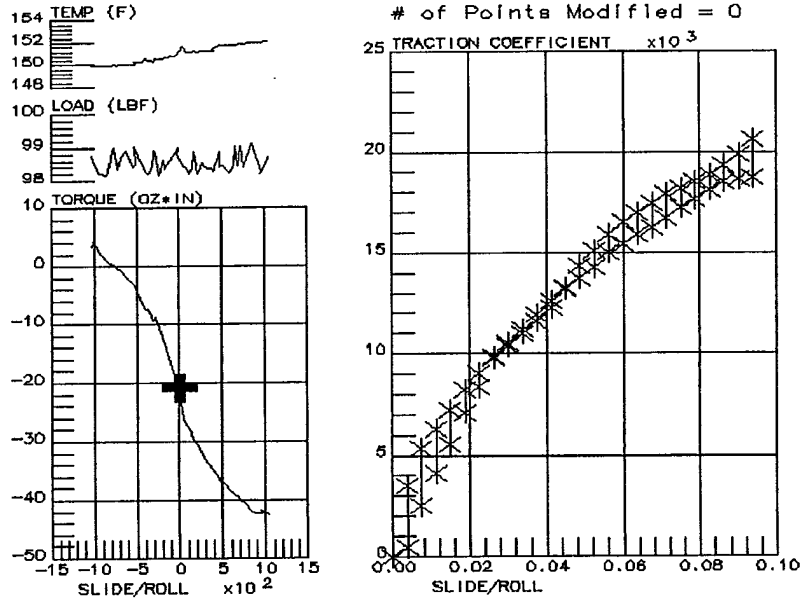


CM 93-172 PAO+16.5% 93-141 + Additives#70
150F 62LBF 2602RPM 2 FILE: cm150h

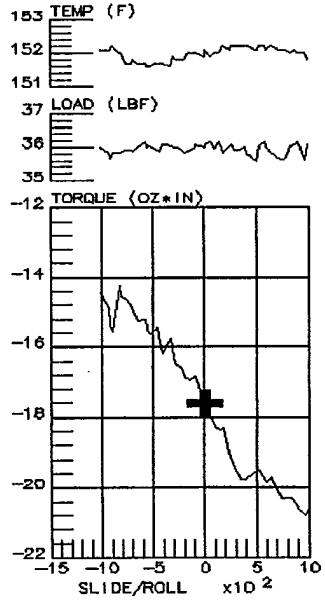


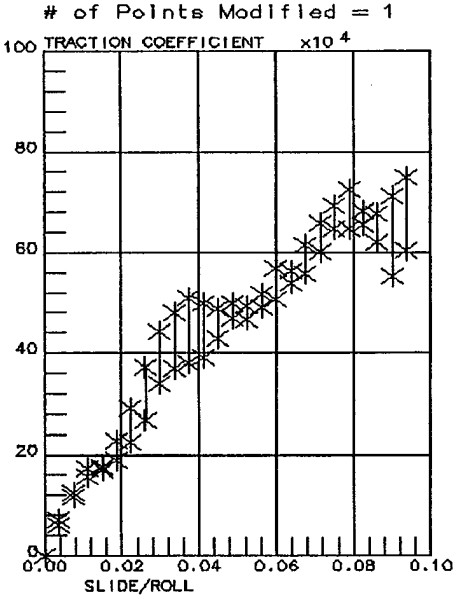


CM 93-172 PAO+16.5% 93-141 + Additives#71
150F 99LBF 2602RPM 3 FILE: cm150h

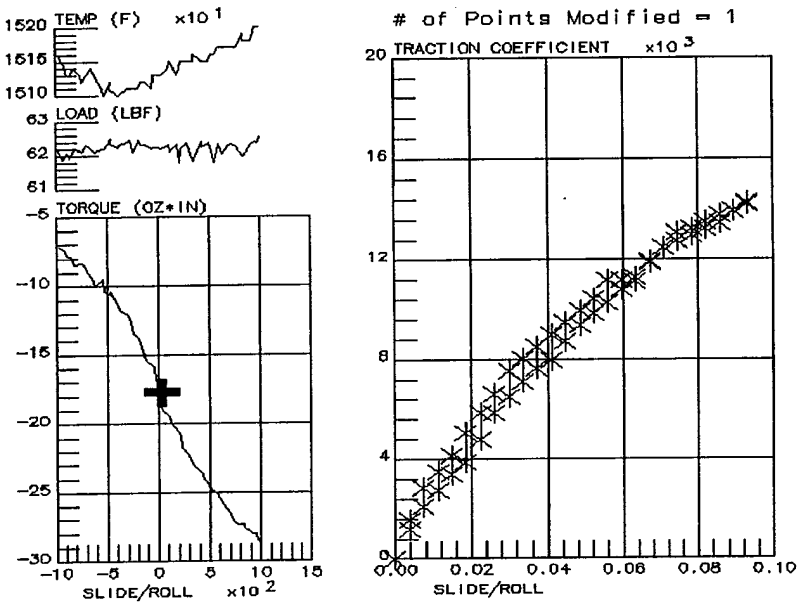


CM 93-172 PAO+16.5% 93-141 + Additives#72
150F 36LBF 5166RPM 4 FILE: cm150h

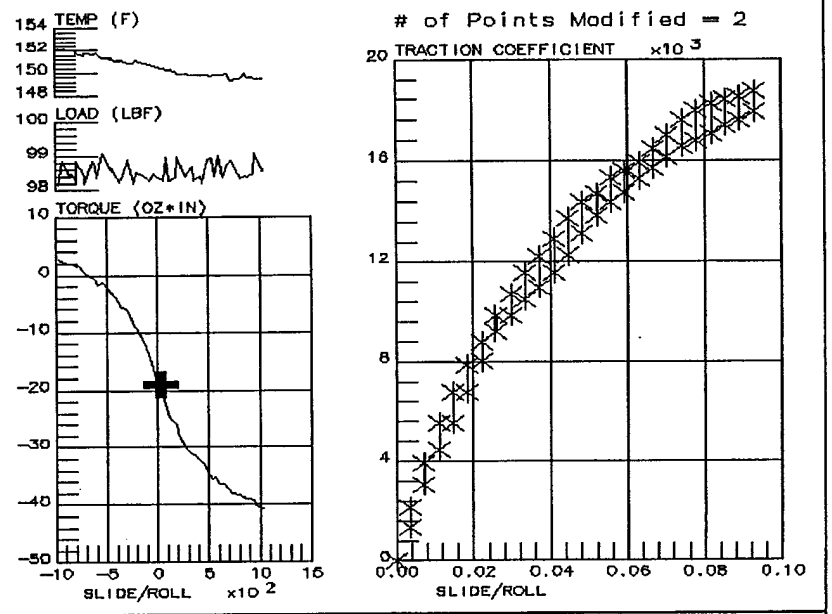




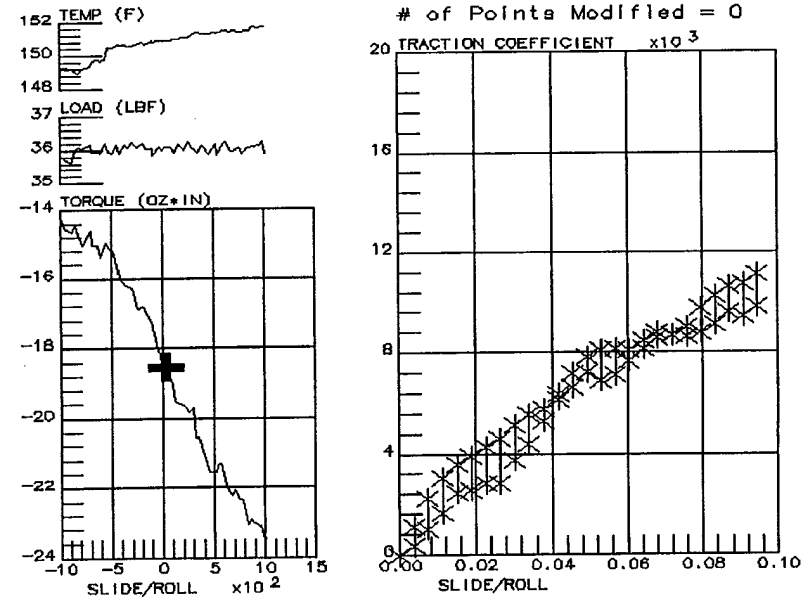
CM 93-172 PAO+16.5% 93-141 + Additives#73
150F 62LBF 5166RPM 5 FILE: cm150h



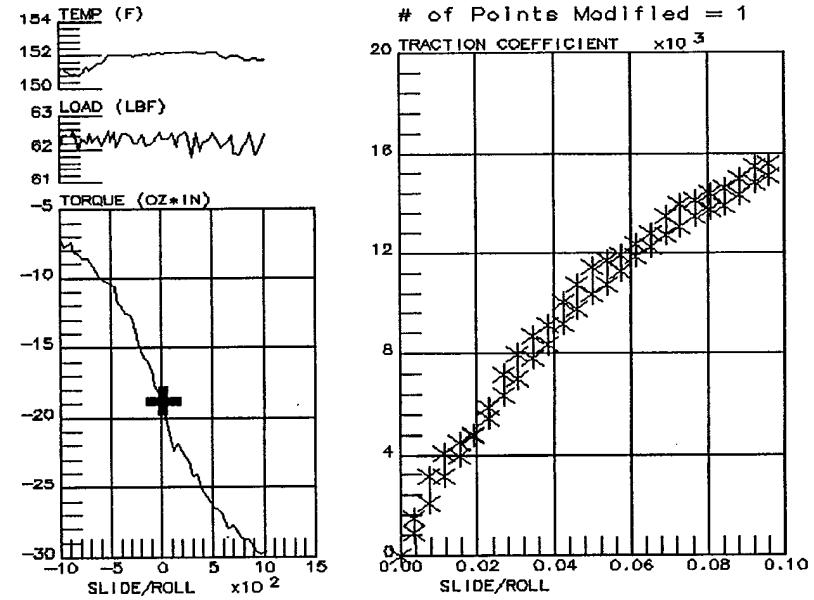
CM 93-172 PAO+16.5% 93-141 + Additives#74
150F 99LBF 5166RPM 6 FILE: cm150h



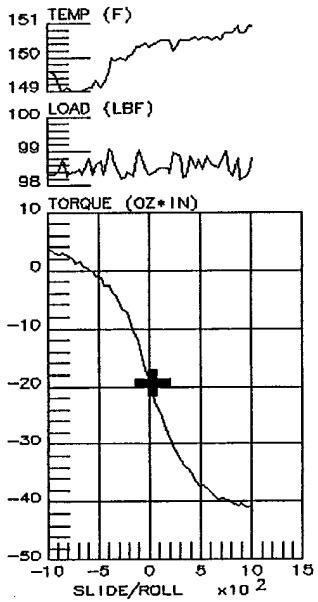
CM 93-172 PAO+16.5% 93-141 + Additives#75
150F 36LBF 7769RPM 7 FILE: cm150h



CM 93-172 PAO+16.5% 93-141 + Additives#76
150F 62LBF 7769RPM 8 FILE: cm150h



CM 93-172 PAO+16.5% 93-141 + Additives#77
150F 99LBF 7769RPM 9 FILE: cm150h



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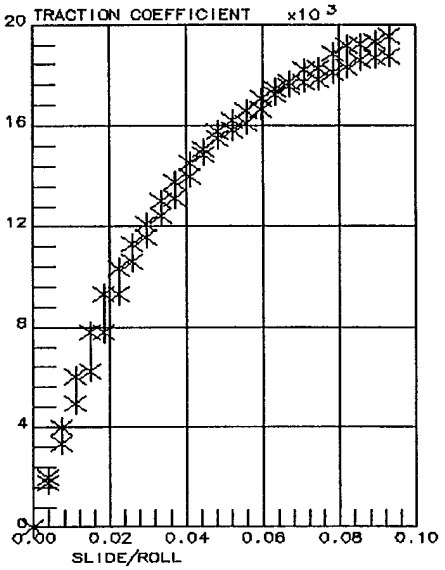
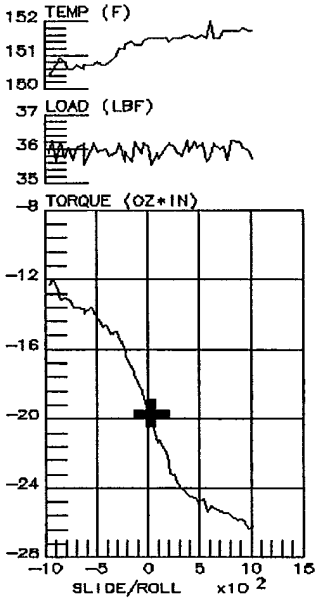


CM 93-172 PAO+16.5% 93-141 + Additives#78
150F 36LBF 10371RPM 10 FILE: cm150h



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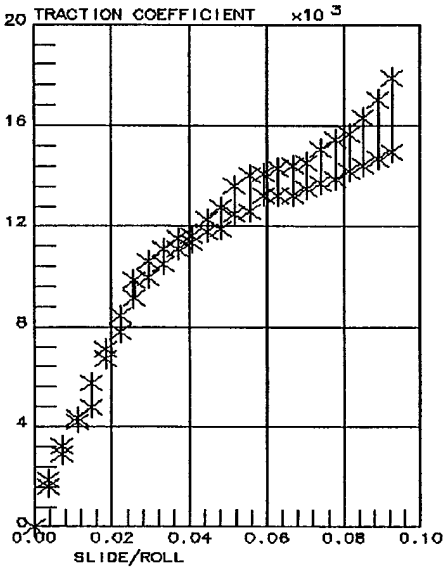
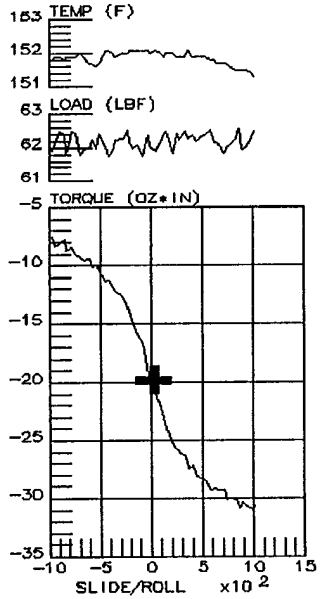


CM 93-172 PAO+16.5% 93-141 + Additives#79
150F 62LBF 10371RPM 11 FILE: cm150h



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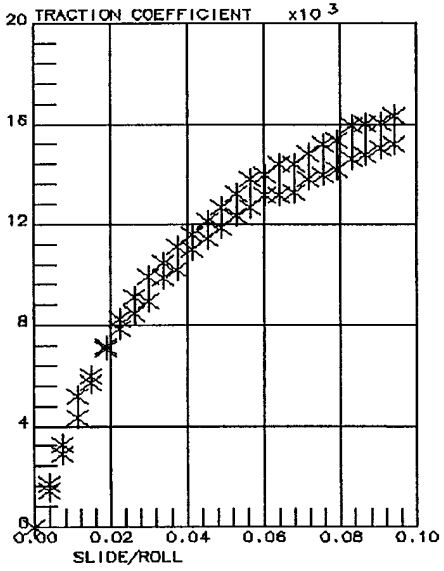
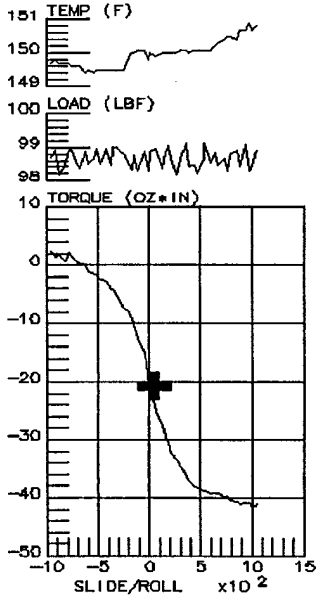


CM 93-172 PAO+16.5% 93-141 + Additives#80
150F 99LBF 10371RPM 12 FILE: cm150h



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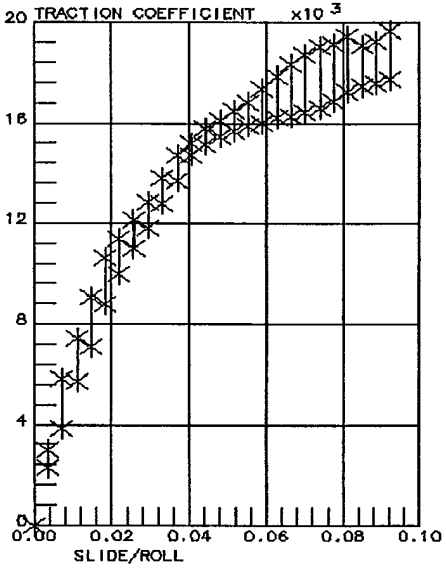
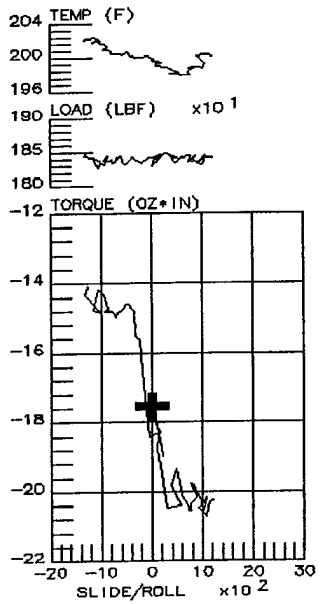


CM 93-172 PAO+16.5% 93-141 + Additives#81
200F 18LBF 310RPM 1 FILE: cm2001



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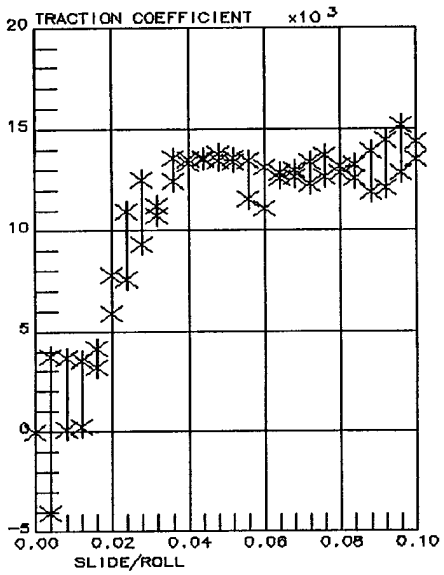
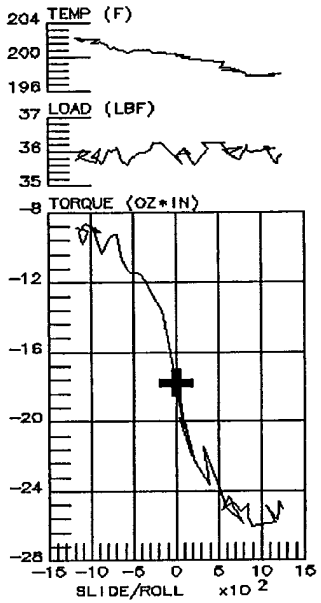


CM 93-172 PAO+16.5% 93-141 + Additives#82
200F 36LBF 310RPM 2 FILE: cm2001



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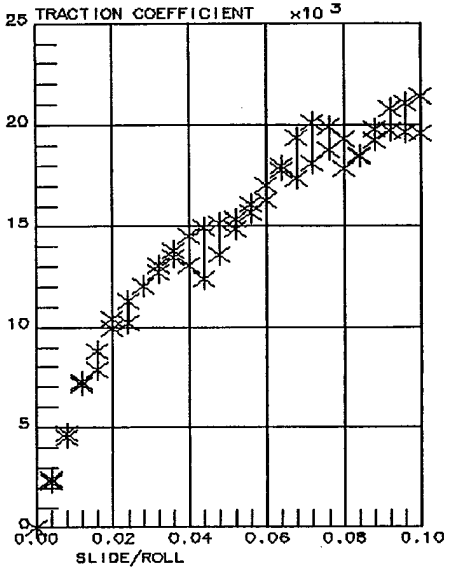
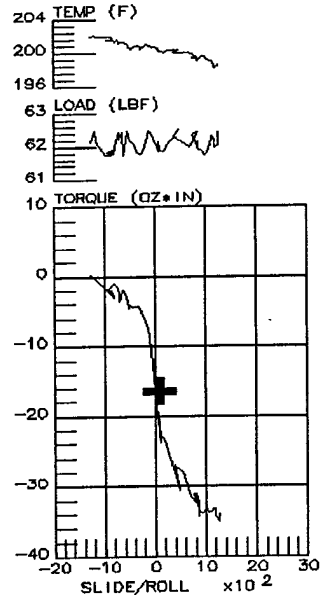


CM 93-172 PAO+16.5% 93-141 + Additives#83
200F 62LBF 310RPM 3 FILE: cm2001



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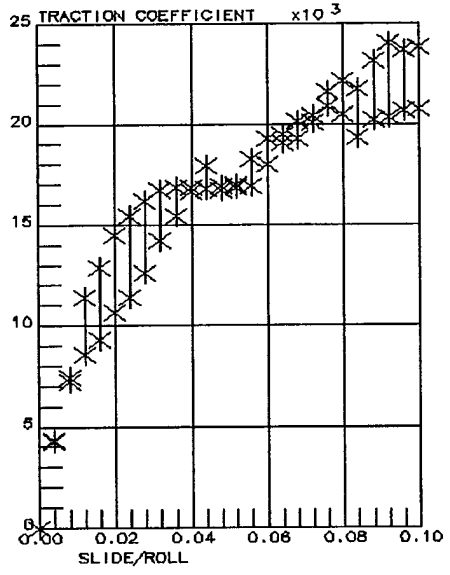
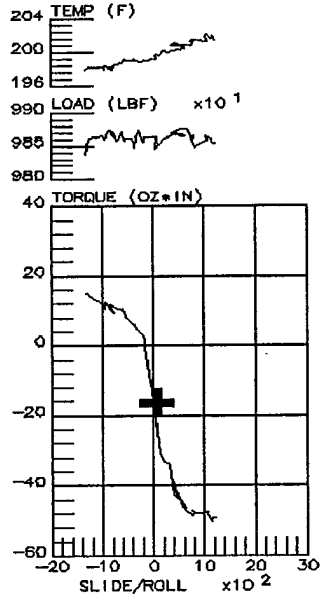


CM 93-172 PAO+16.5% 93-141 + Additives#84
200F 99LBF 310RPM 4 FILE: cm2001



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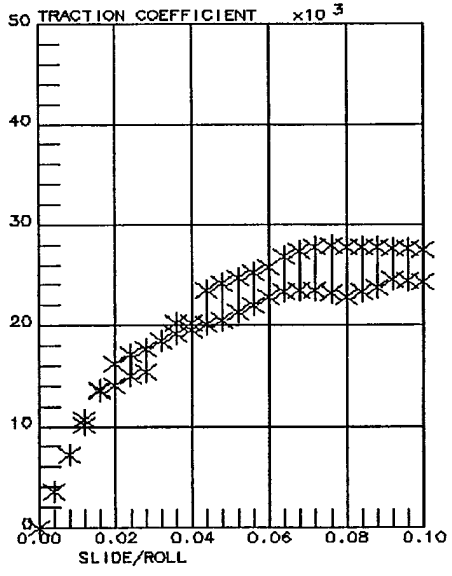
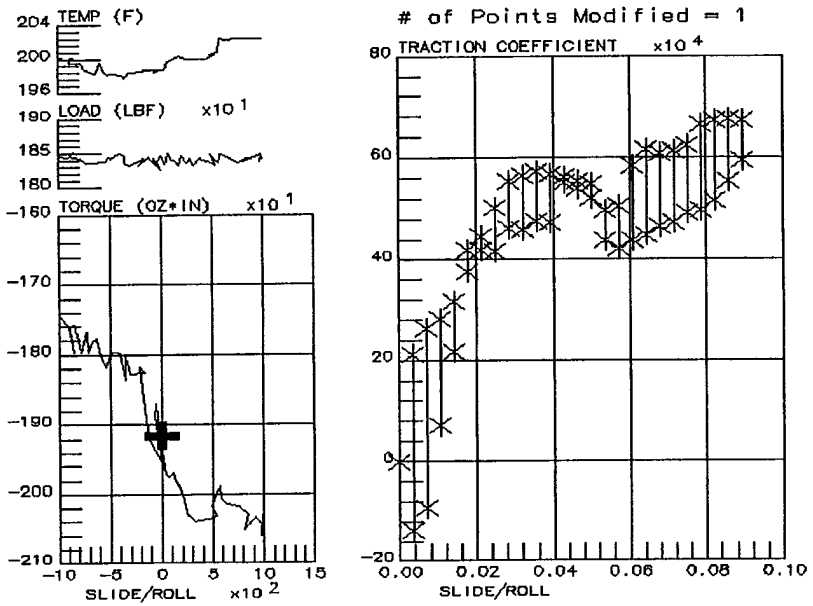
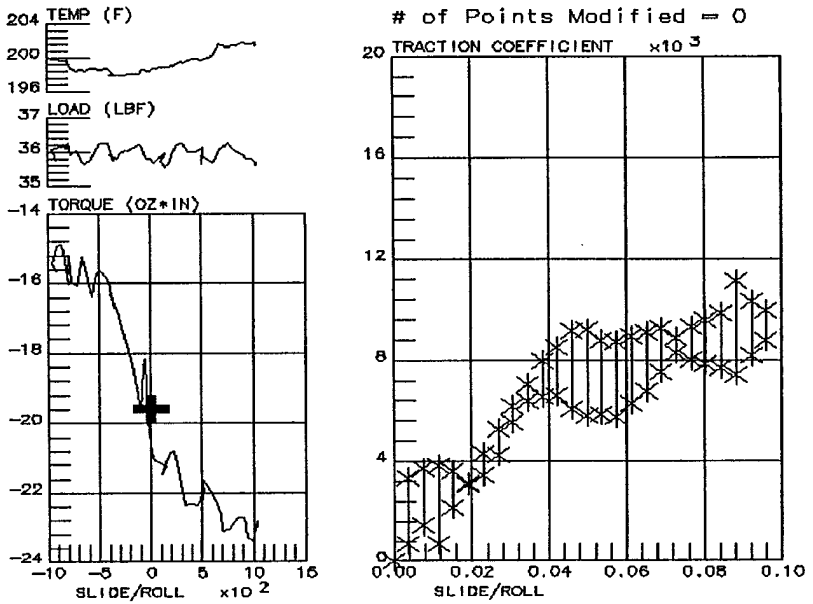


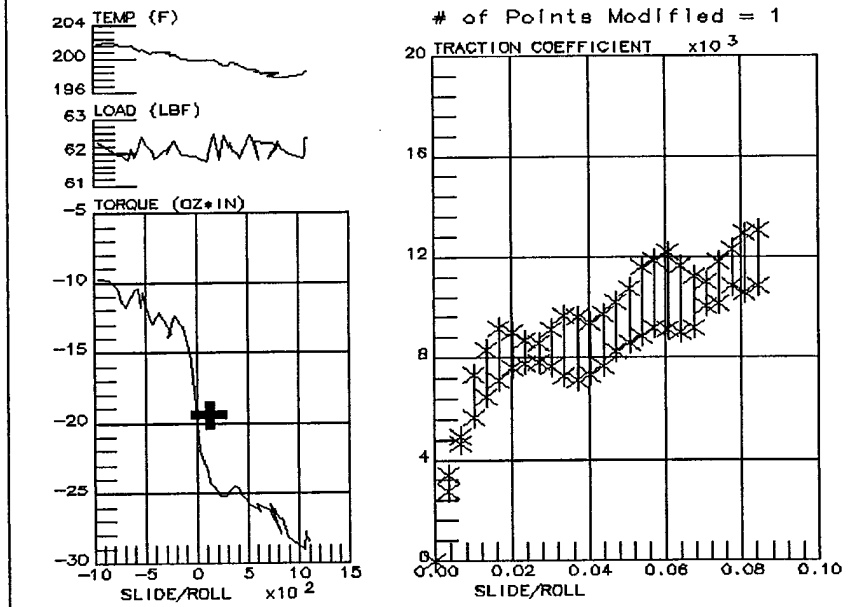
CM 93-172 PAO+16.5% 93-141 + Additives#85
200F 18LBF 660RPM 5 FILE: cm2001



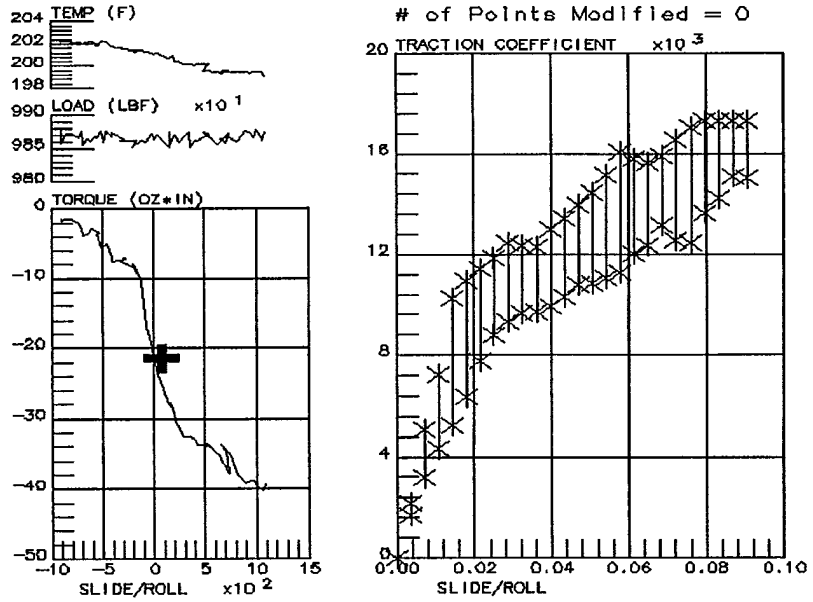
CM 93-172 PAO+16.5% 93-141 + Additives#86
200F 36LBF 660RPM 6 FILE: cm2001



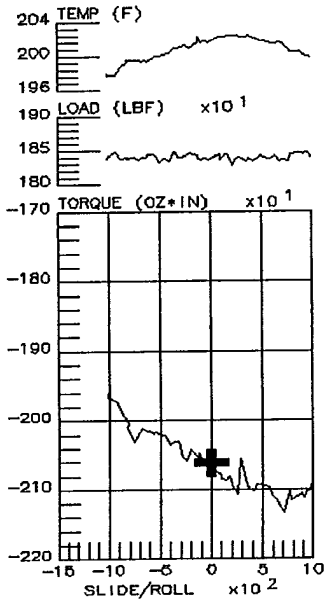
CM 93-172 PAO+16.5% 93-141 + Additives#87
200F 62LBF 660RPM 7 FILE: cm2001

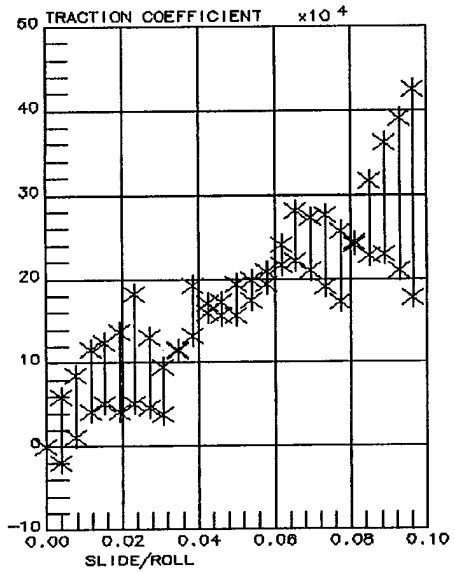


CM 93-172 PAO+16.5% 93-141 + Additives#88
200F 99LBF 660RPM 8 FILE: cm2001

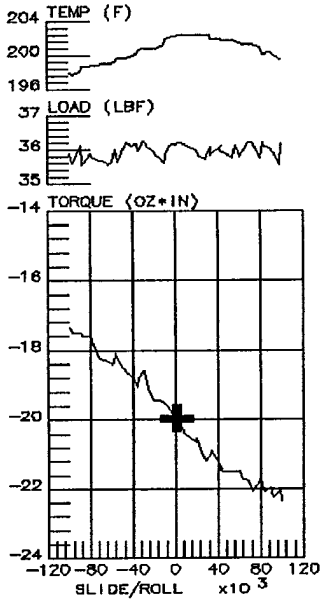


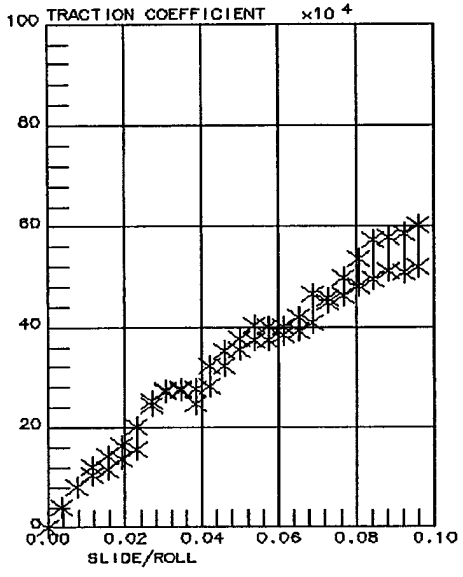
CM 93-172 PAO+16.5% 93-141 + Additives#89
200F 18LBF 1281RPM 9 FILE: cm2001



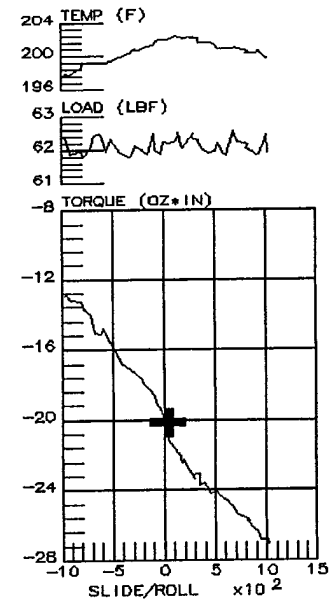


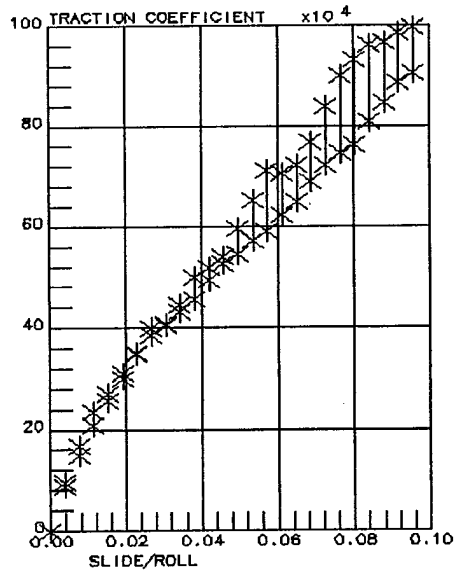
CM 93-172 PAO+16.5% 93-141 + Additives#90
200F 36LBF 1281RPM 10 FILE: cm2001



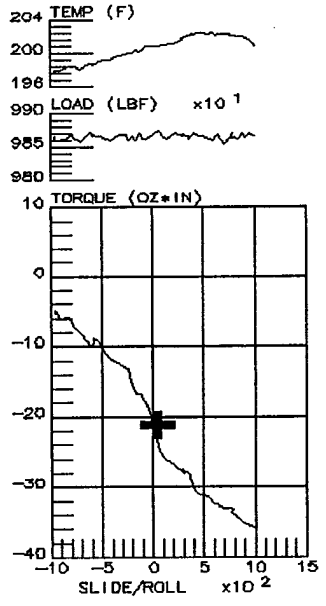


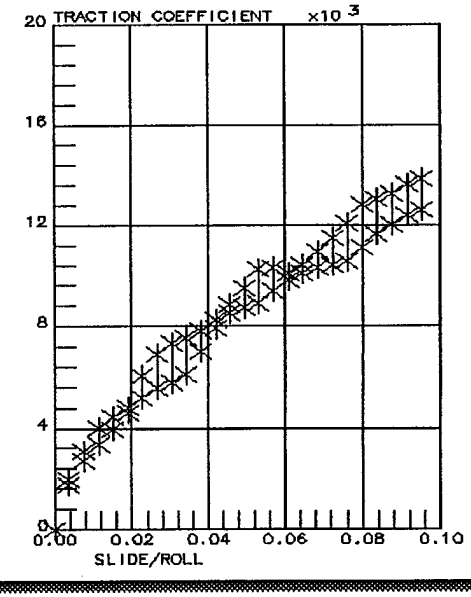
CM 93-172 PAO+16.5% 93-141 + Additives#91
200F 62LBF 1281RPM 11 FILE: cm2001



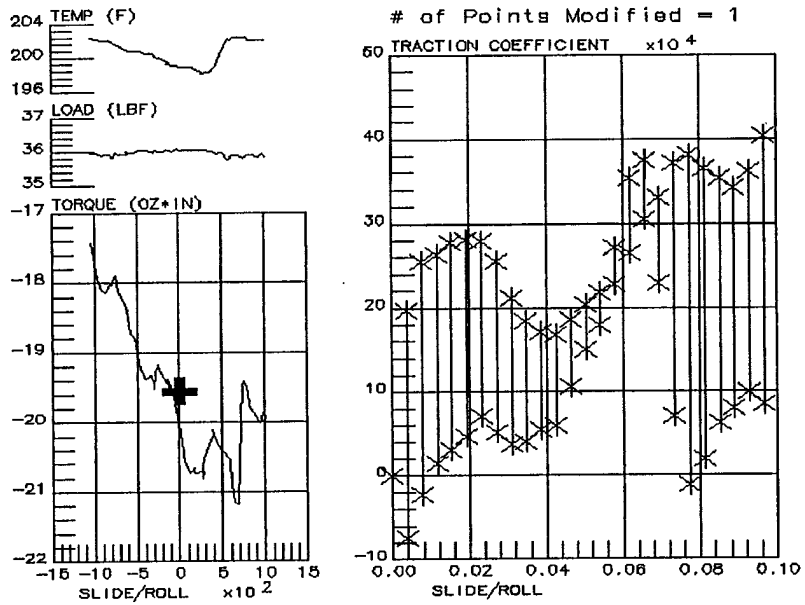


CM 93-172 PAO+16.5% 93-141 + Additives#92
200F 99LBF 1281RPM 12 FILE: cm2001

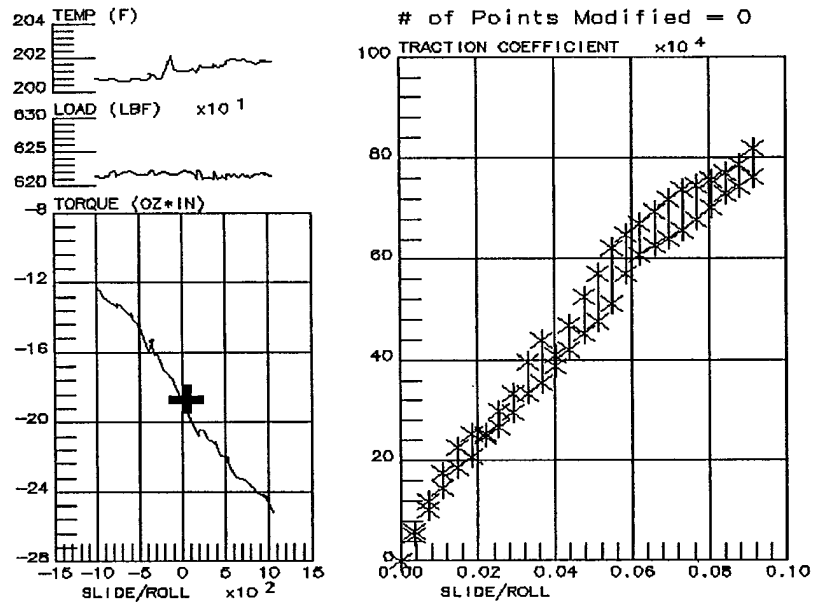




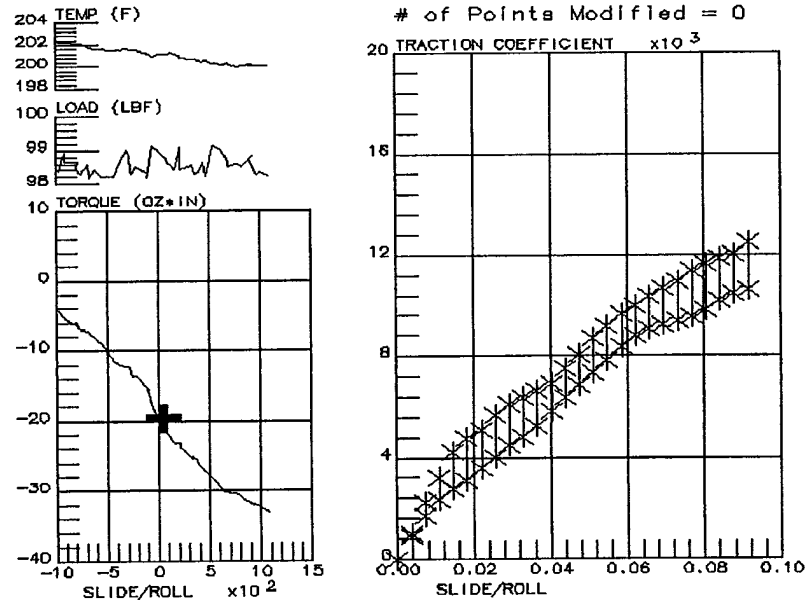
CM 93-172 PAO+16.5% 93-141 + Additives#93
200F 36LBF 2602RPM 1 FILE: cm200h



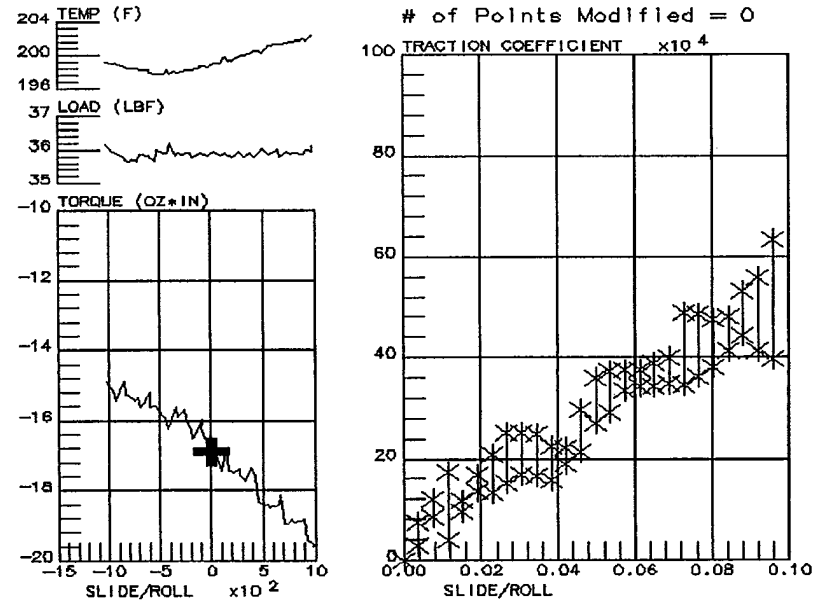
CM 93-172 PAO+16.5% 93-141 + Additives#94
200F 62LBF 2602RPM 2 FILE: cm200h



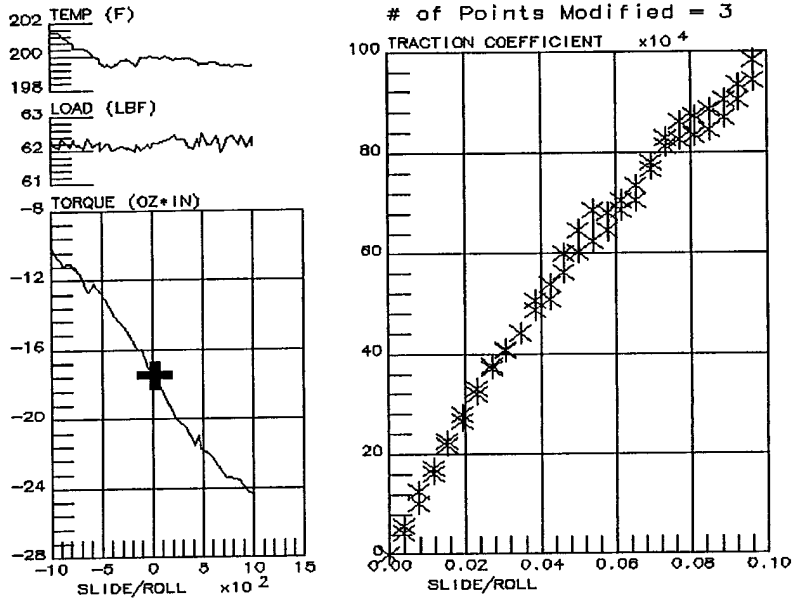
CM 93-172 PAO+16.5% 93-141 + Additives#95
200F 99LBF 2602RPM 3 FILE: cm200h



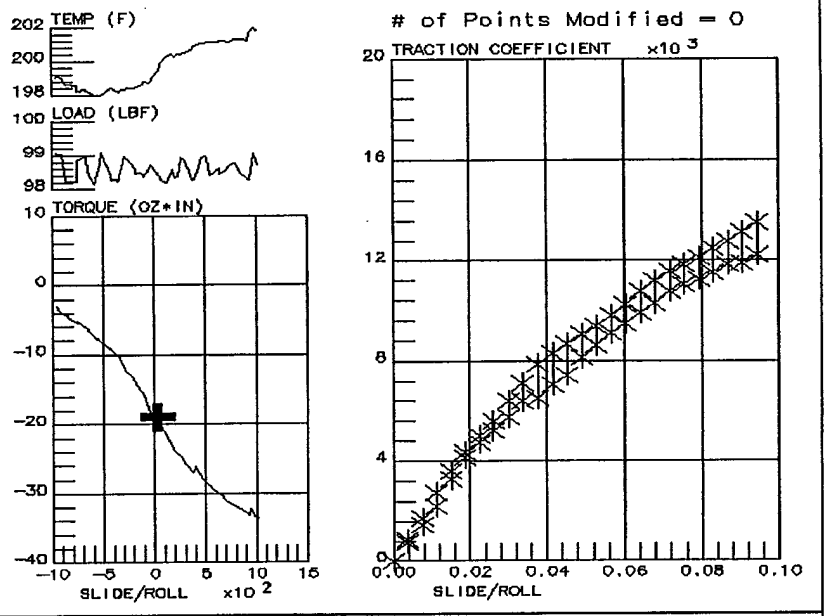
CM 93-172 PAO+16.5% 93-141 + Additives#96
200F 36LBF 5166RPM 4 FILE: cm200h



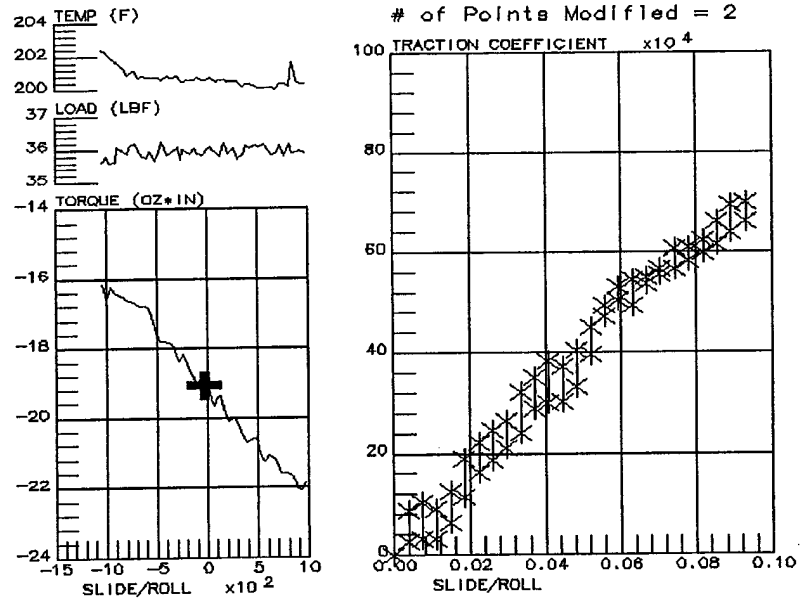
CM 93-172 PAO+16.5% 93-141 + Additives#97
200F 62LBF 5166RPM 5 FILE: cm200h



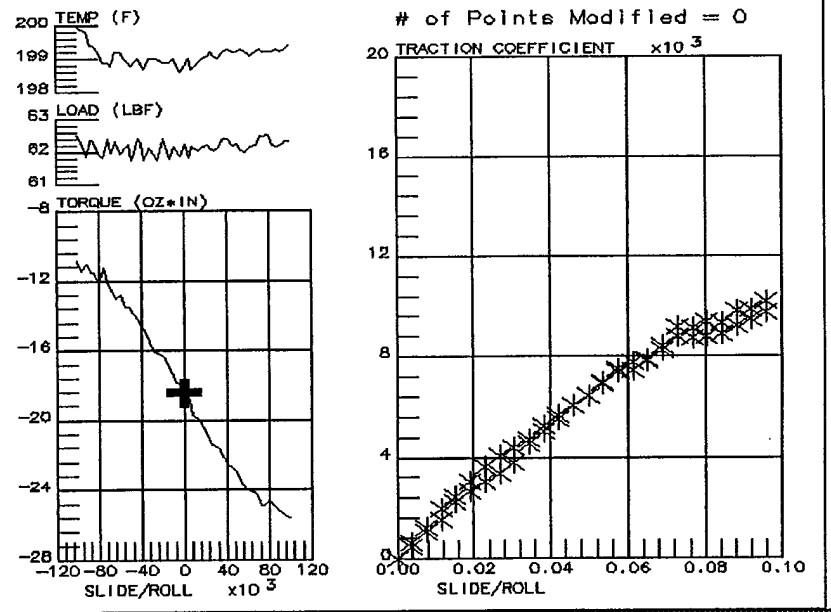
CM 93-172 PAO+16.5% 93-141 + Additives#98
200F 99LBF 5166RPM 6 FILE: cm200h



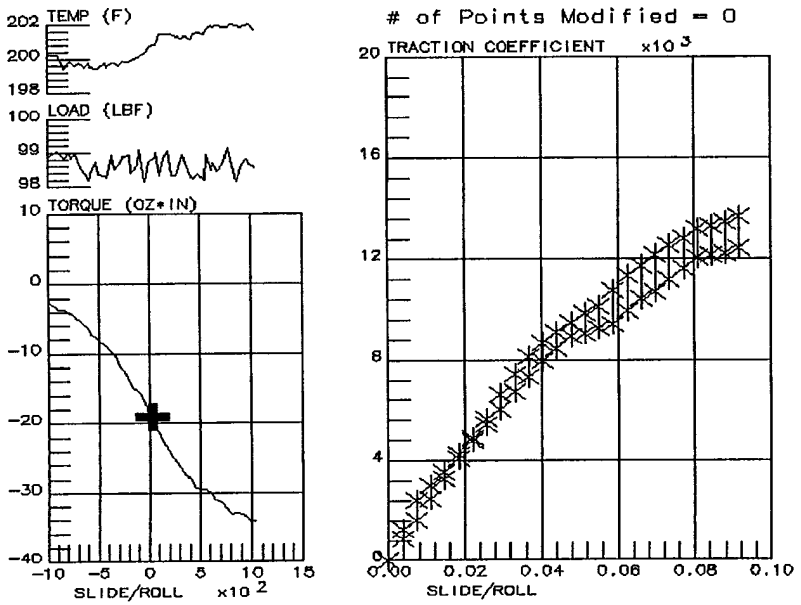
CM 93-172 PAO+16.5% 93-141 + Additives#99
200F 36LBF 7769RPM 7 FILE: cm200h



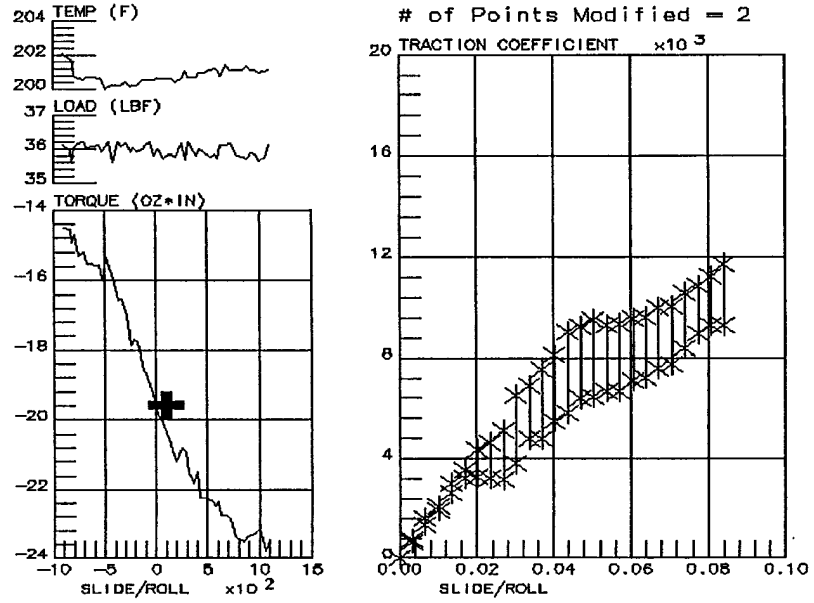
CM 93-172 PAO+16.5% 93-141 + Additives#100
200F 62LBF 7769RPM 8 FILE: cm200h



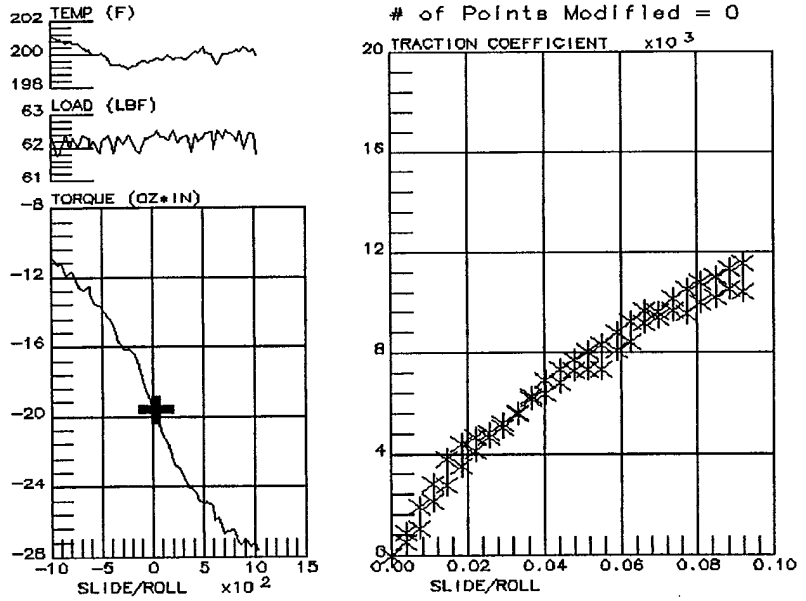
CM 93-172 PAO+16.5% 93-141 + Additives#101
200F 99LBF 7769RPM 9 FILE: cm200h



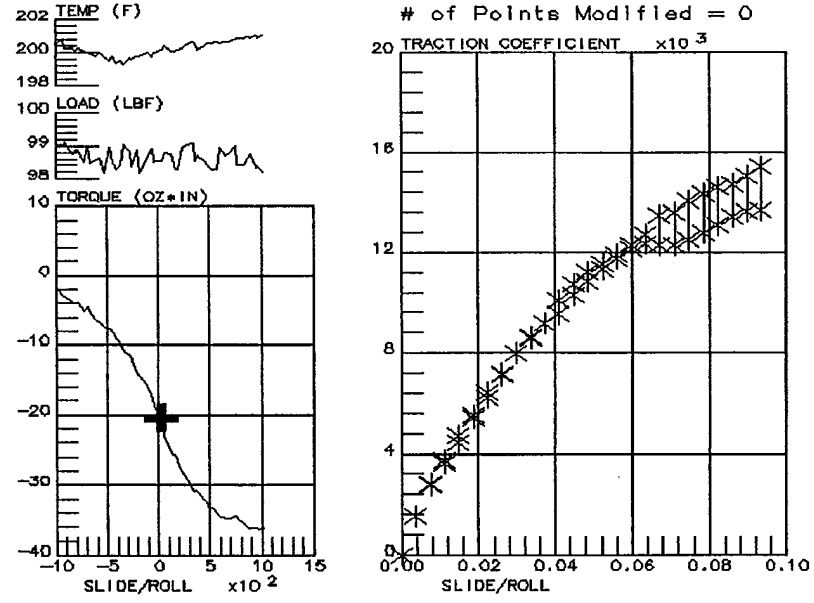
CM 93-172 PAO+16.5% 93-141 + Additives#102
200F 36LBF 10371RPM 10 FILE: cm200h



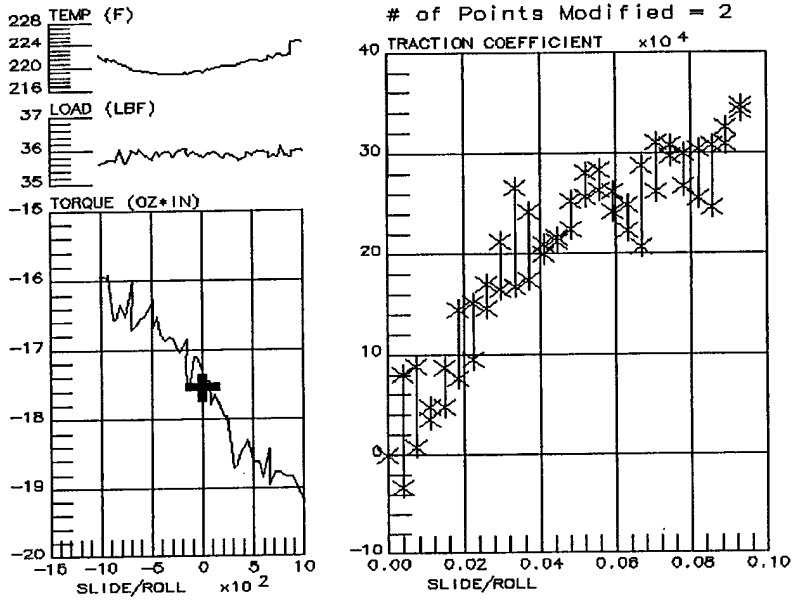
CM 93-172 PAO+16.5% 93-141 + Additives#103
200F 62LBF 10371RPM 11 FILE: cm200h



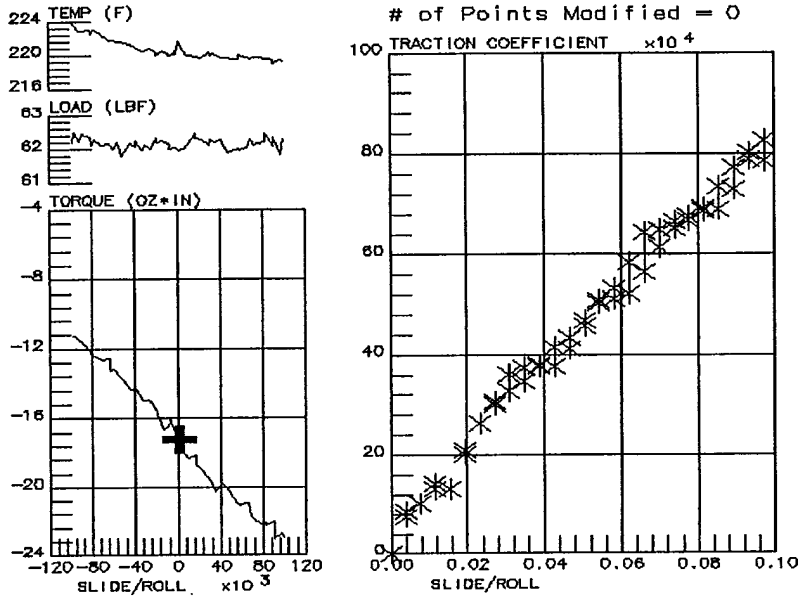
CM 93-172 PAO+16.5% 93-141 + Additives#104
200F 99LBF 10371RPM 12 FILE: cm200h



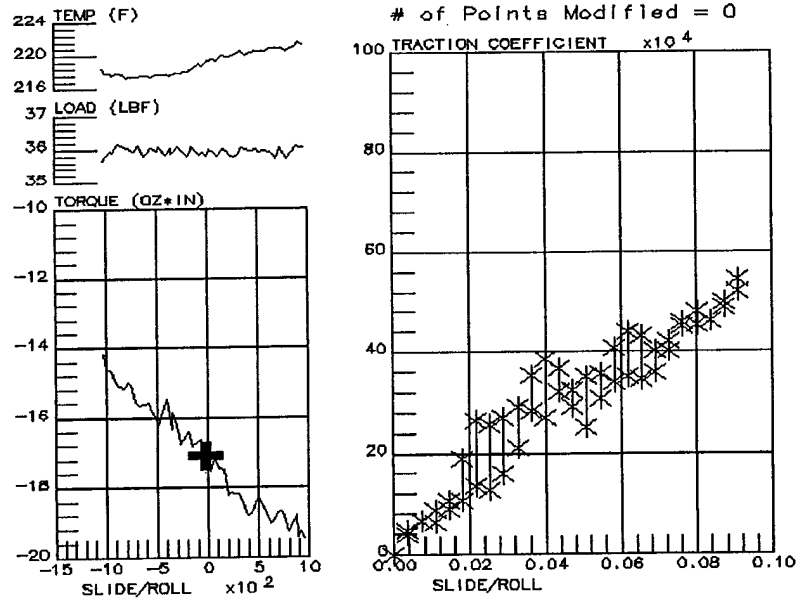
CM 93-172 PAO+16.5% 93-141 + Additives#105
220F 36LBF 5166RPM 1 FILE: cm212ha



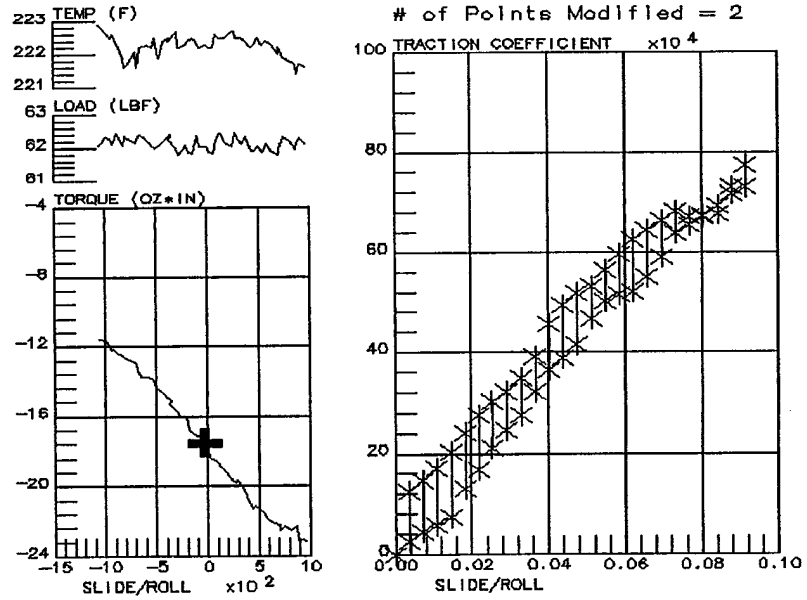
CM 93-172 PAO+16.5% 93-141 + Additives#106
220F 62LBF 5166RPM 2 FILE: cm212ha



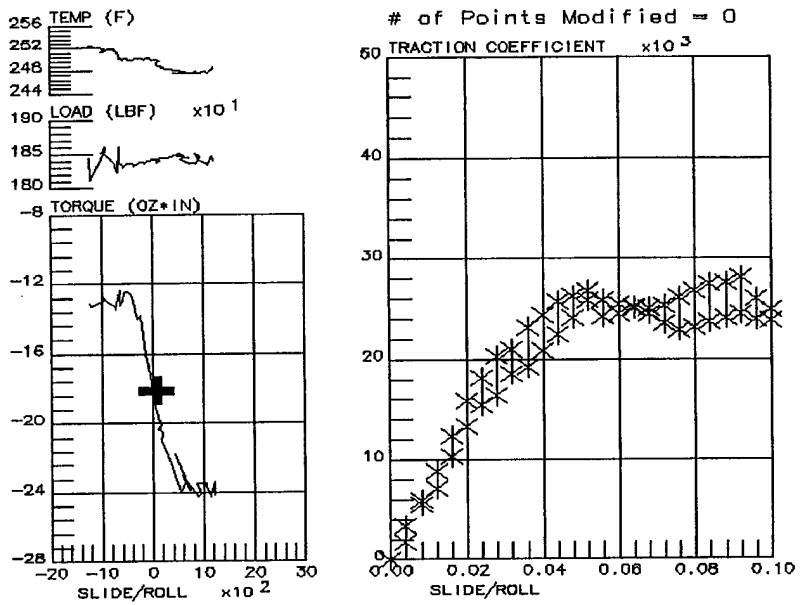
CM 93-172 PAO+16.5% 93-141 + Additives#107
220F 36LBF 6487RPM 3 FILE: cm212ha



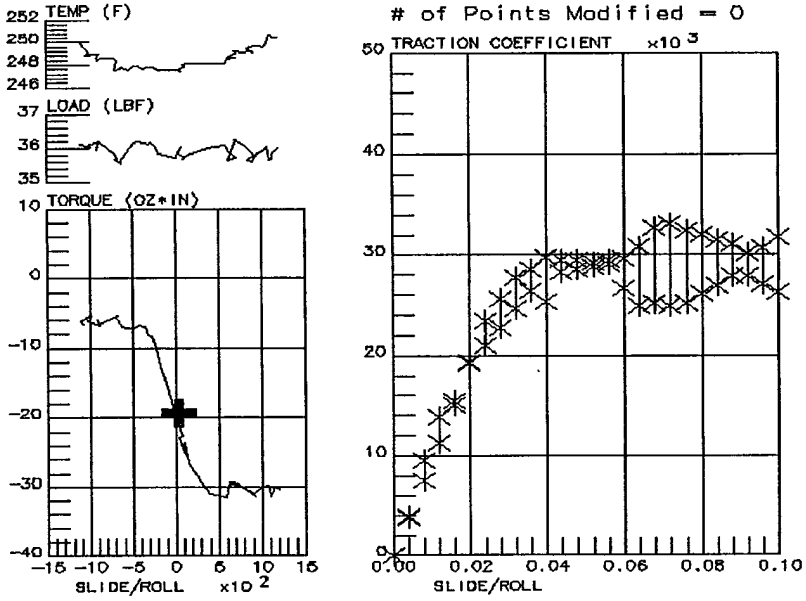
CM 93-172 PAO+16.5% 93-141 + Additives#108
220F 62LBF 6487RPM 4 FILE: cm212ha



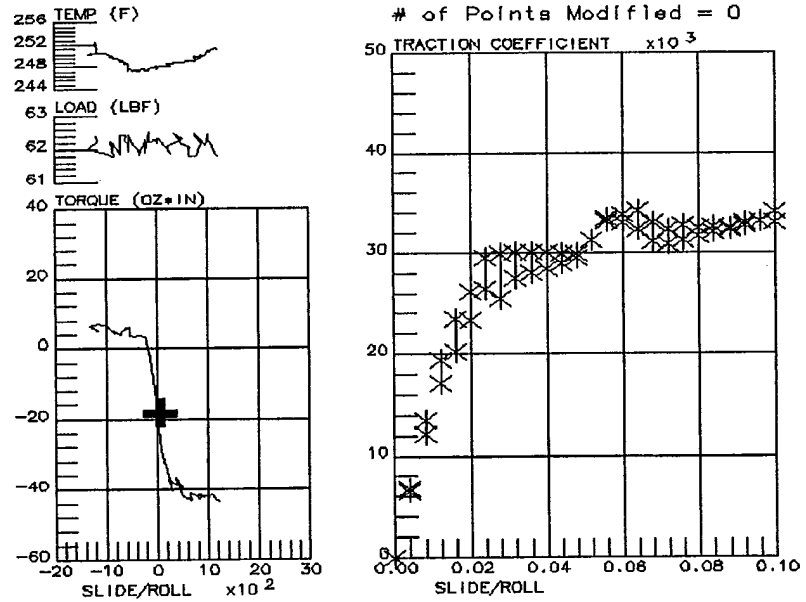
CM 93-172 PAO+16.5% 93-141 + Additives#109
250F 18LBF 310RPM 1 FILE: cm2501



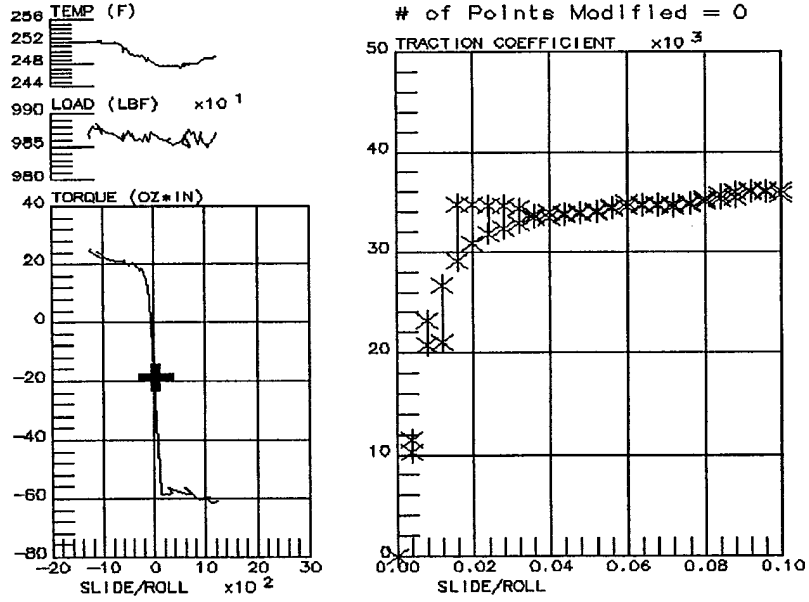
CM 93-172 PAO+16.5% 93-141 + Additives#110
250F 36LBF 310RPM 2 FILE: cm2501



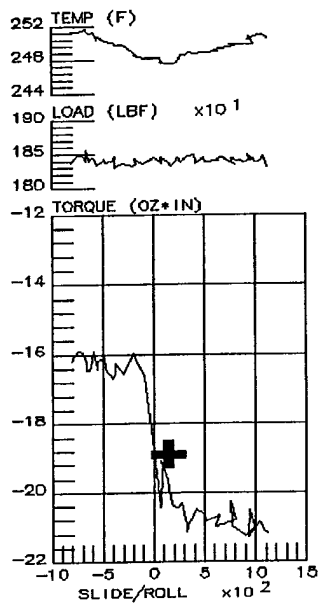
CM 93-172 PAO+16.5% 93-141 + Additives#111
250F 62LBF 310RPM 3 FILE: cm2501

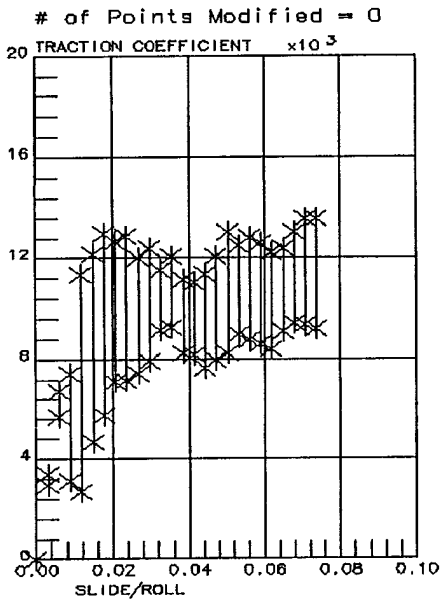


CM 93-172 PAO+16.5% 93-141 + Additives#112
250F 99LBF 310RPM 4 FILE: cm2501

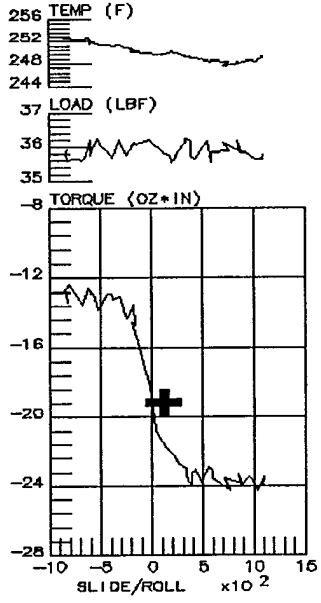


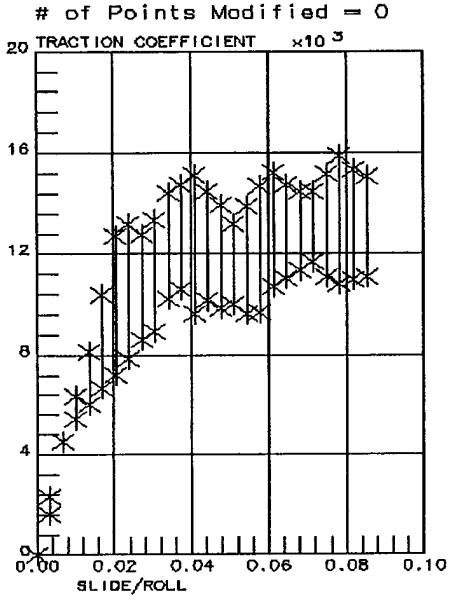
CM 93-172 PAO+16.5% 93-141 + Additives#113
250F 18LBF 660RPM 5 FILE: cm2501



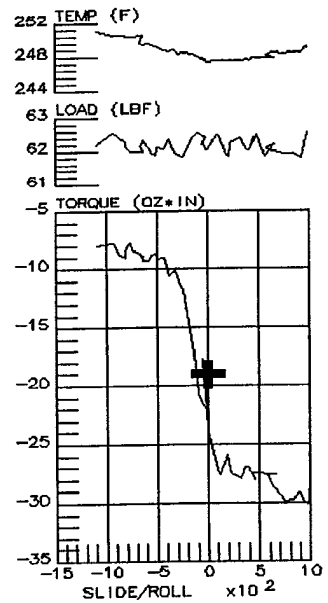


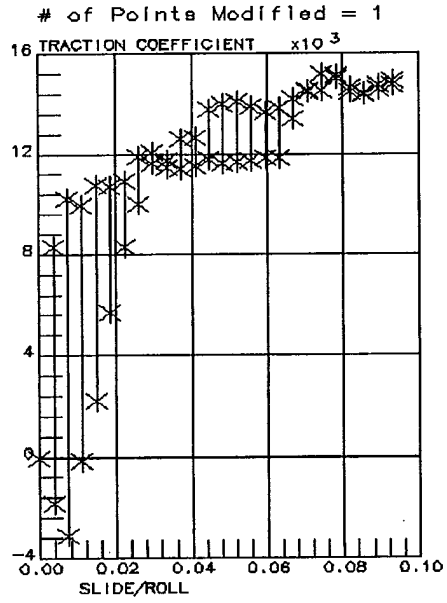
CM 93-172 PAO+16.5% 93-141 + Additives#114
250F 36LBF 660RPM 6 FILE: cm2501



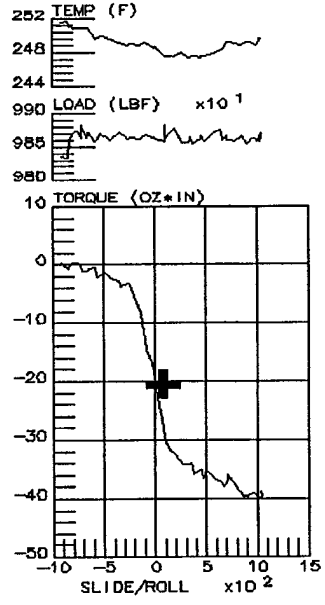


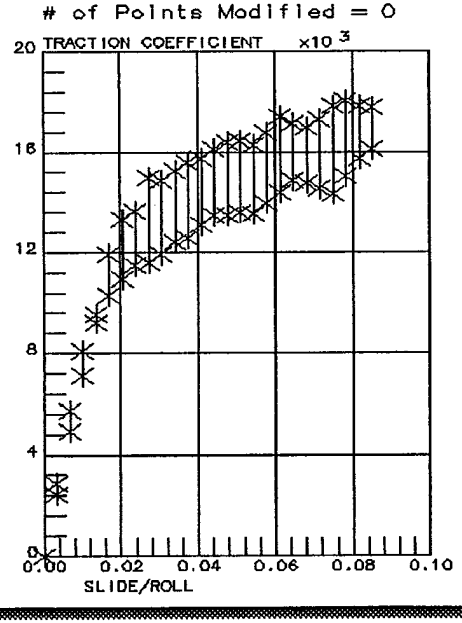
CM 93-172 PAO+16.5% 93-141 + Additives#115
250F 62LBF 660RPM 7 FILE: cm2501



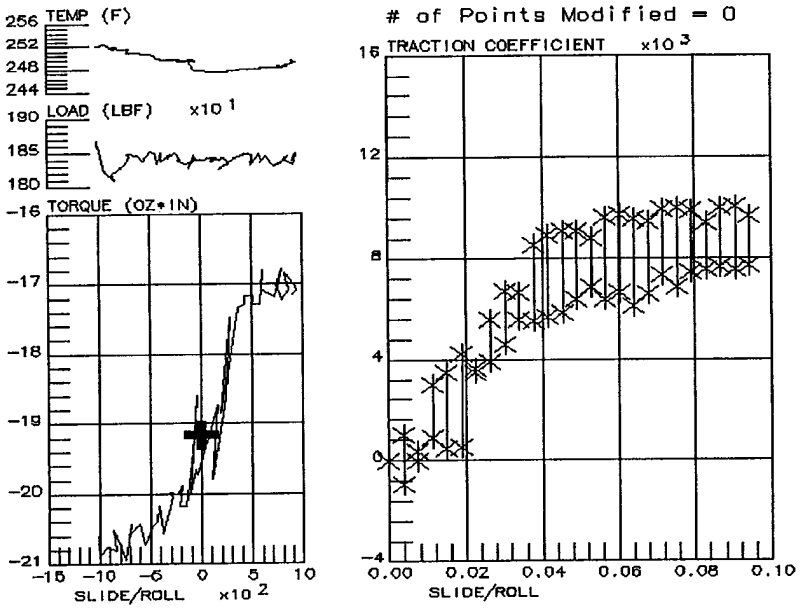


CM 93-172 PAO+16.5% 93-141 + Additives#116
250F 99LBF 660RPM 8 FILE: cm2501

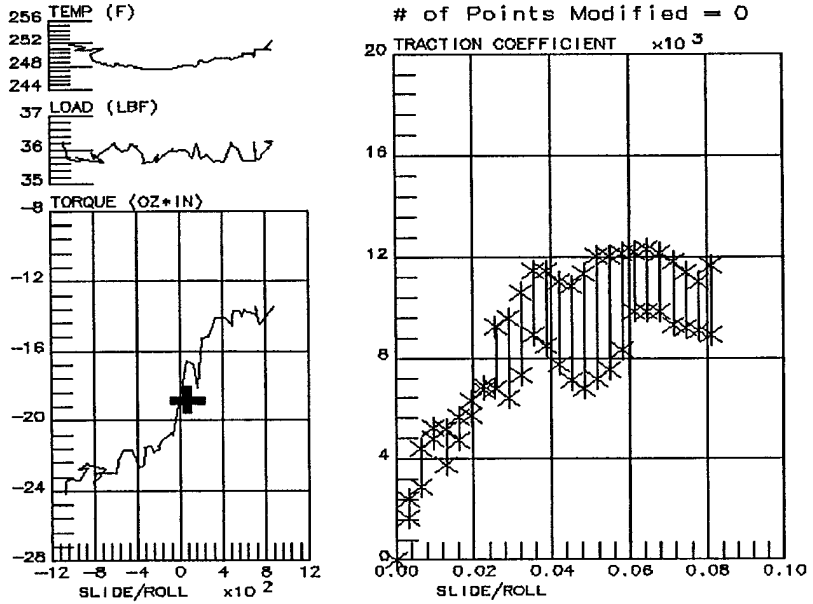




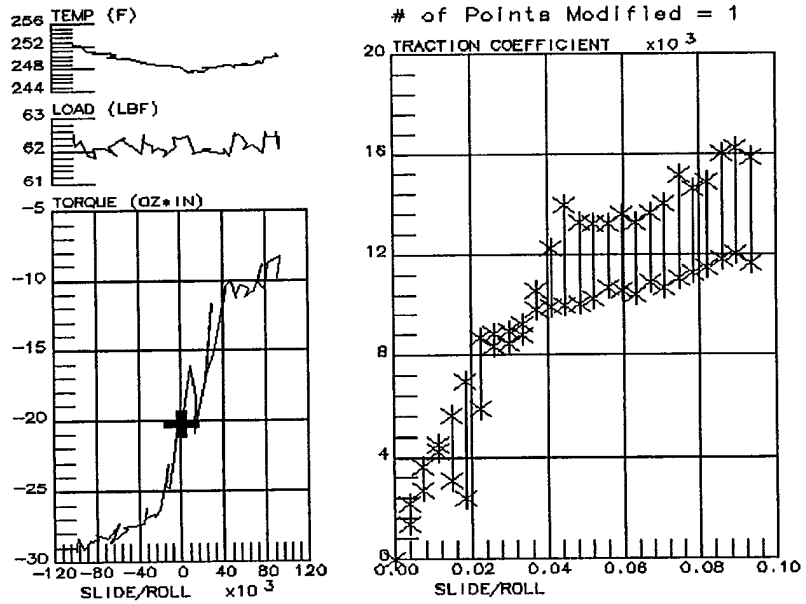
CM 93-172 PAO+16.5% 93-141 + Additives#117
250F 18LBF 660RPM 9 FILE: cm2501



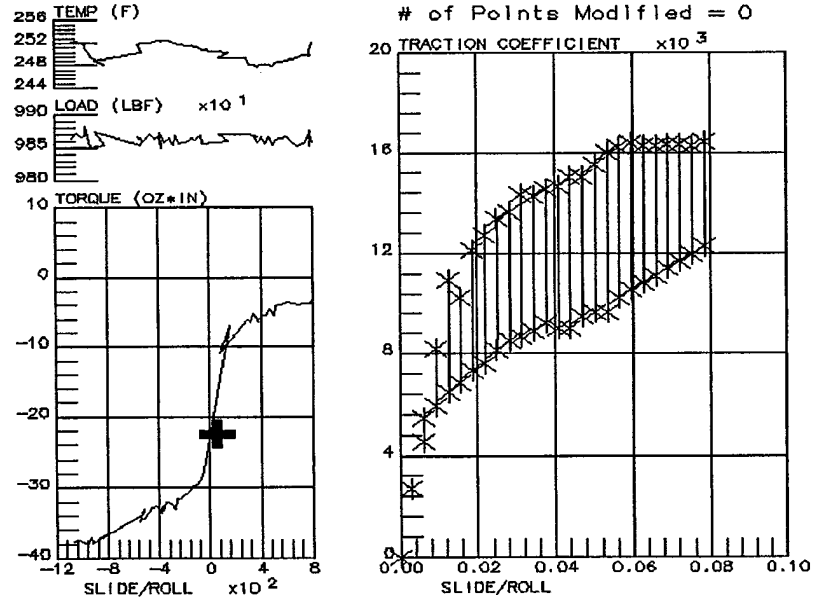
CM 93-172 PAO+16.5% 93-141 + Additives#118
250F 36LBF 660RPM 10 FILE: cm2501



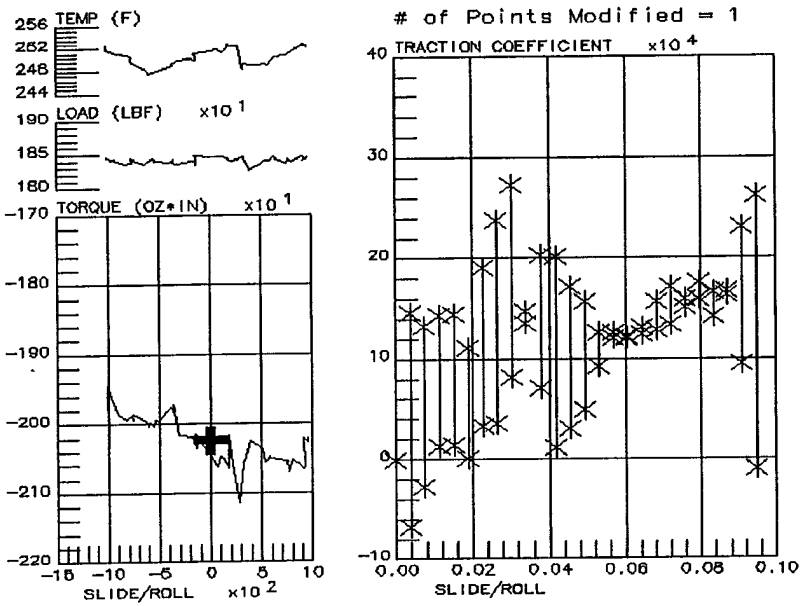
CM 93-172 PAO+16.5% 93-141 + Additives#119
250F 62LBF 660RPM 11 FILE: cm2501



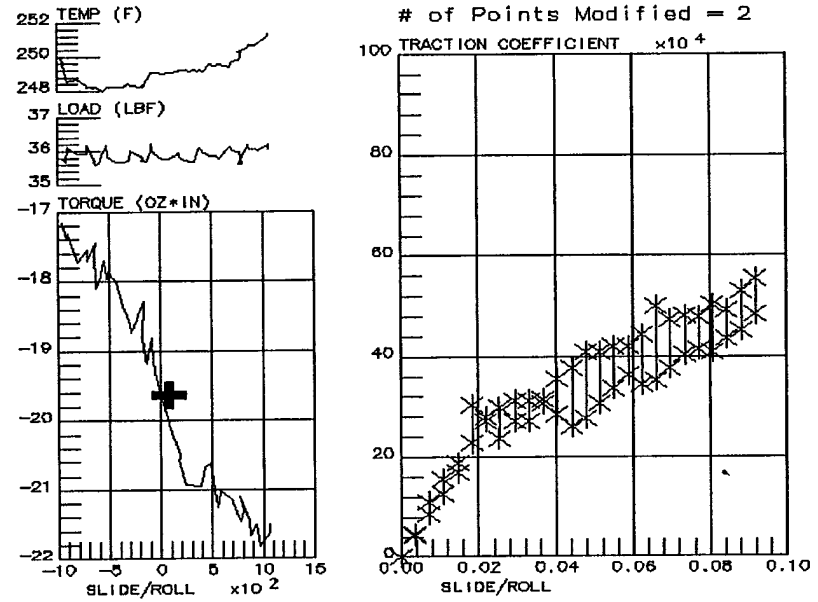
CM 93-172 PAO+16.5% 93-141 + Additives#120
250F 99LBF 660RPM 12 FILE: cm2501



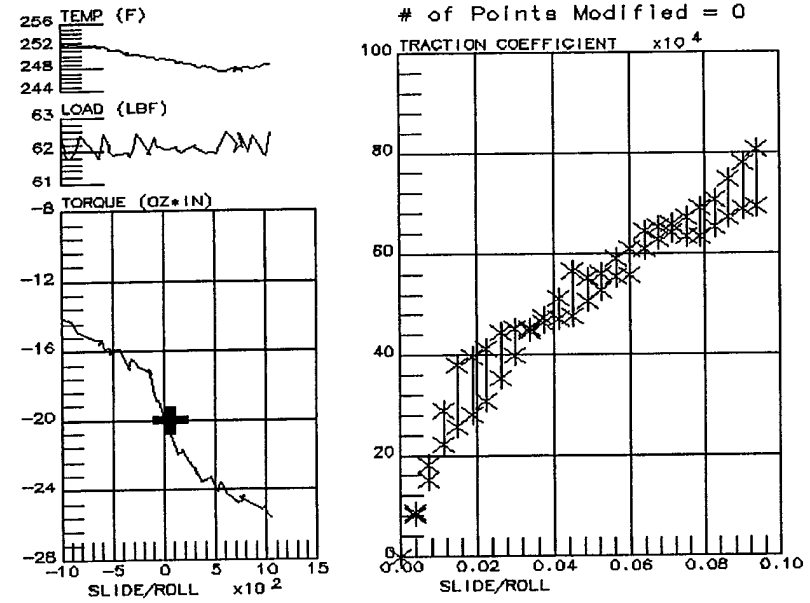
CM 93-172 PAO+16.5% 93-141 + Additives#121
250F 18LBF 1281RPM 13 FILE: cm2501



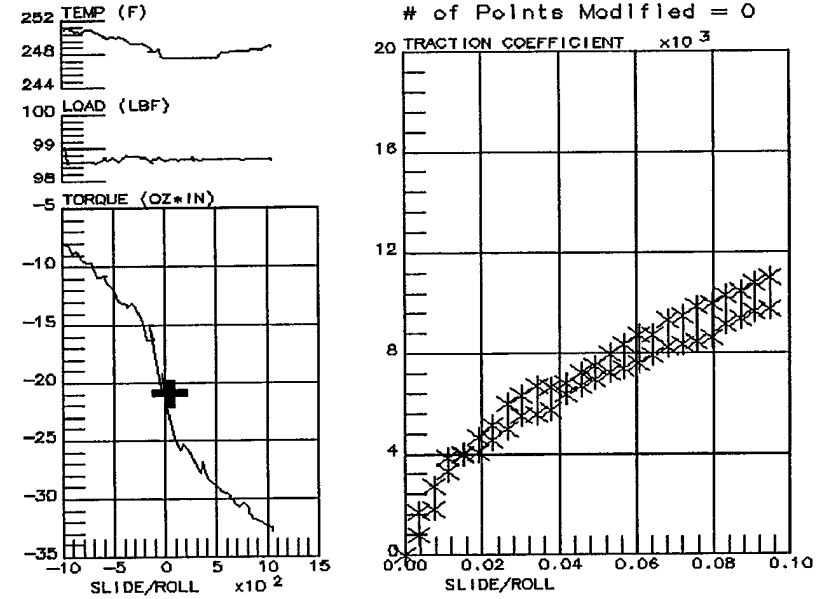
CM 93-172 PAO+16.5% 93-141 + Additives#122
250F 36LBF 1281RPM 14 FILE: cm2501



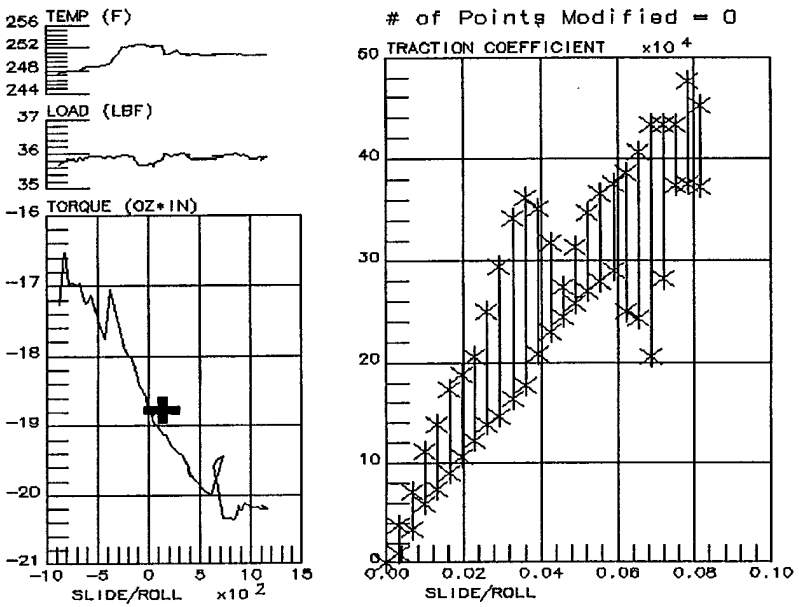
CM 93-172 PAO+16.5% 93-141 + Additives#123
250F 62LBF 1281RPM 15 FILE: cm2501



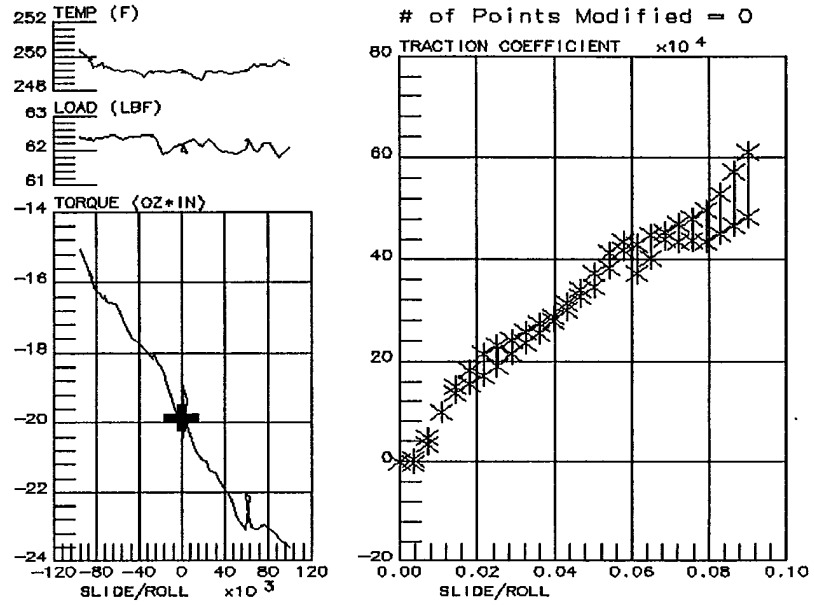
CM 93-172 PAO+16.5% 93-141 + Additives#124
250F 99LBF 1281RPM 16 FILE: cm2501



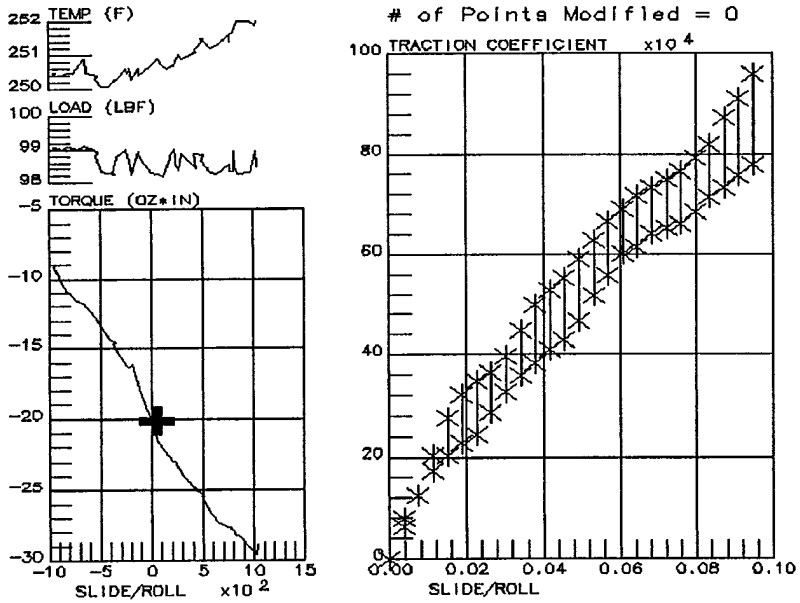
CM 93-172 PAO+16.5% 93-141 + Additives#125
250F 36LBF 2602RPM 1 FILE: cm250h



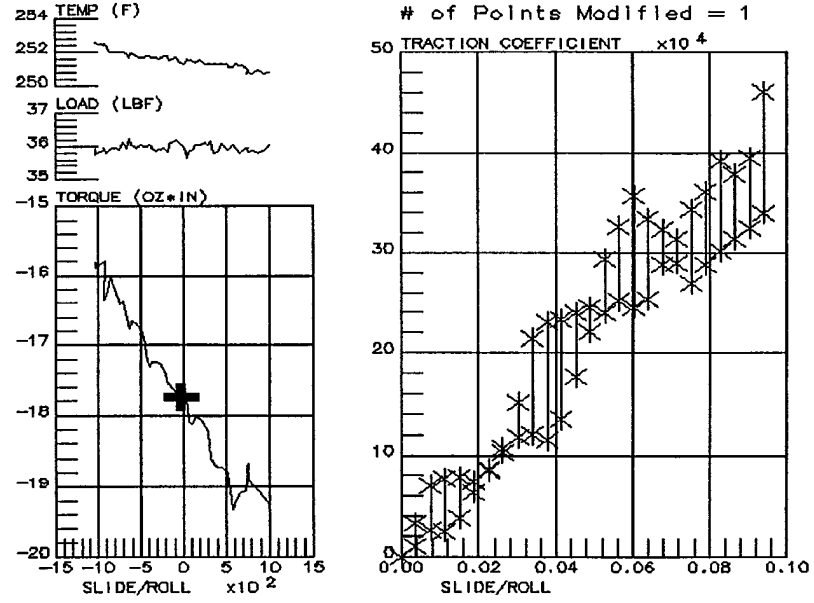
CM 93-172 PAO+16.5% 93-141 + Additives#126
250F 62LBF 2602RPM 2 FILE: cm250h



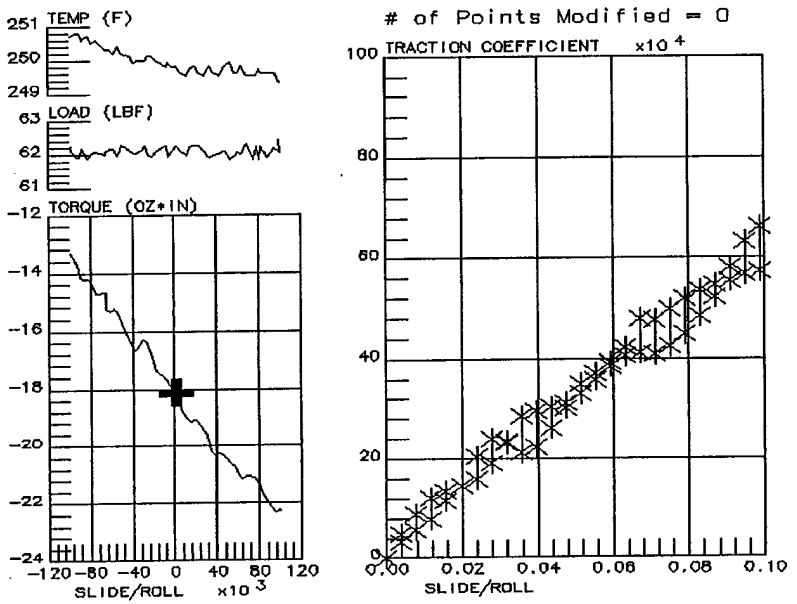
CM 93-172 PAO+16.5% 93-141 + Additives#127
250F 99LBF 2602RPM 3 FILE: cm250h



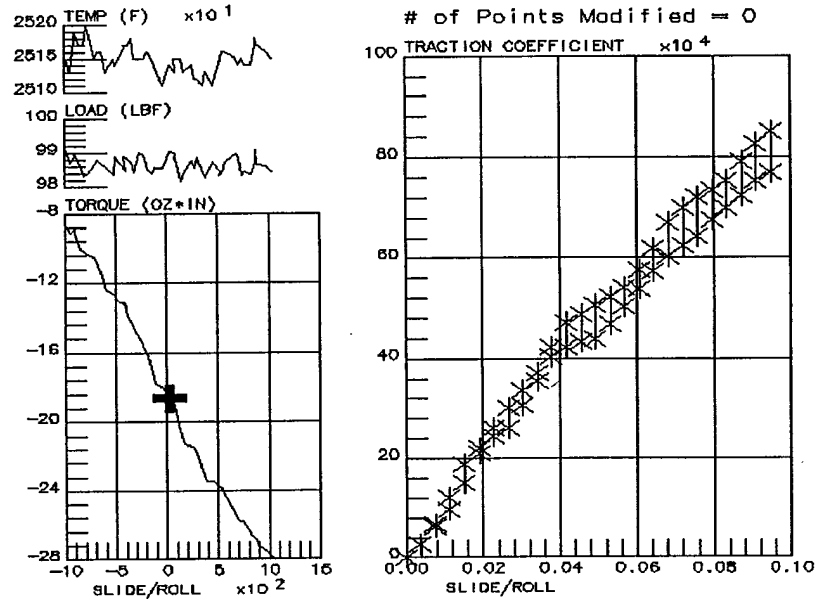
CM 93-172 PAO+16.5% 93-141 + Additives#128
250F 36LBF 5166RPM 4 FILE: cm250h



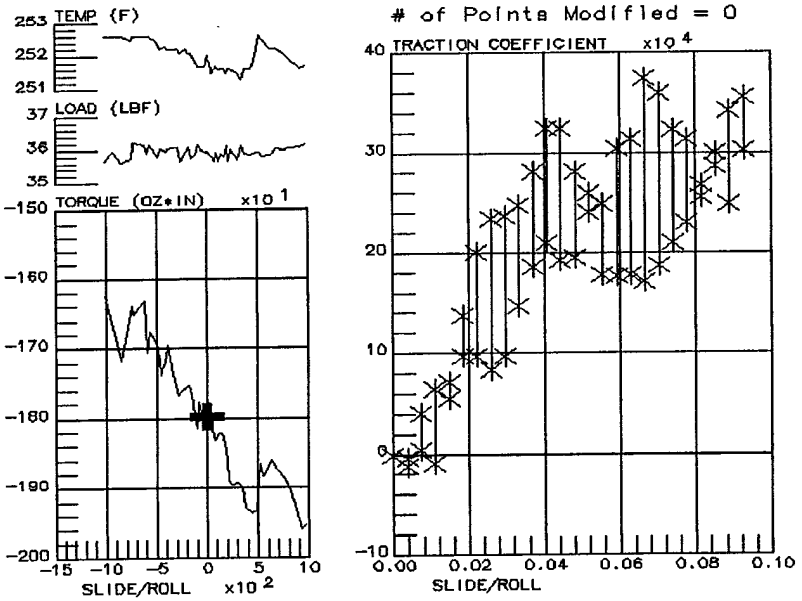
CM 93-172 PAO+16.5% 93-141 + Additives#129
250F 62LBF 5166RPM 5 FILE: cm250h



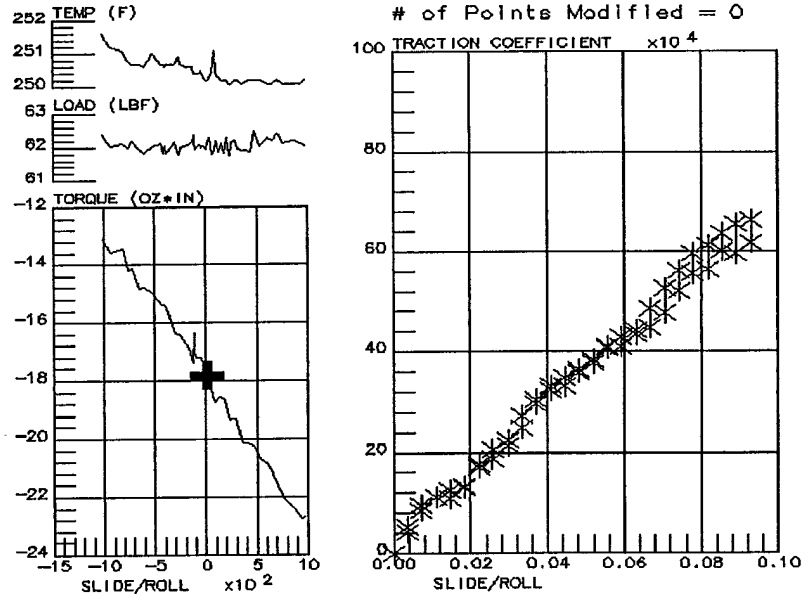
CM 93-172 PAO+16.5% 93-141 + Additives#130
250F 99LBF 5166RPM 6 FILE: cm250h



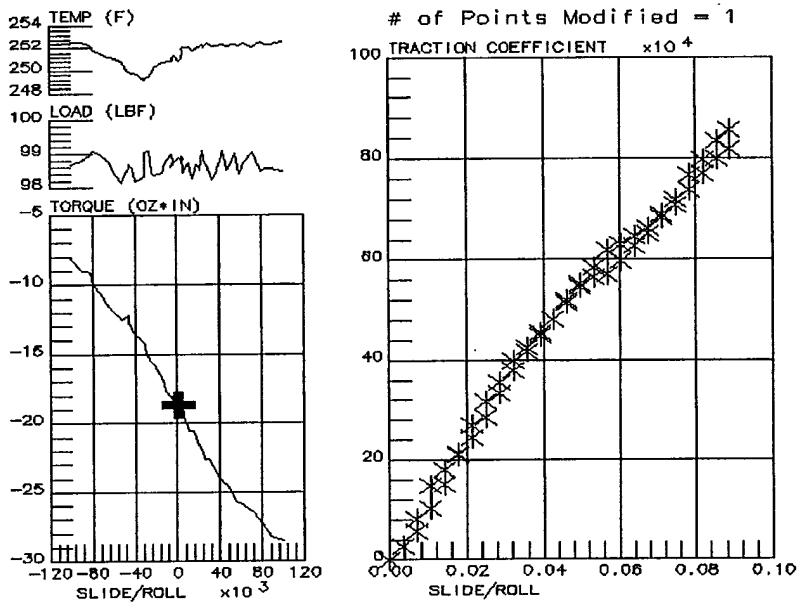
CM 93-172 PAO+16.5% 93-141 + Additives#131
250F 36LBF 7769RPM 7 FILE: cm250h



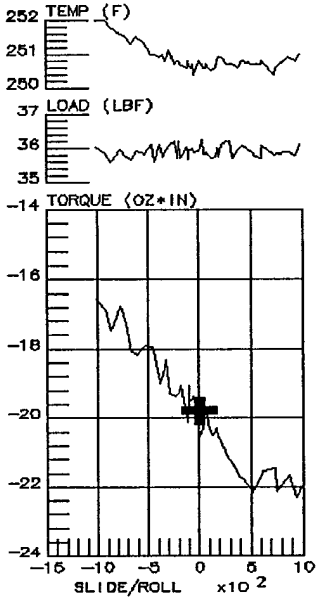
CM 93-172 PAO+16.5% 93-141 + Additives#132
250F 62LBF 7769RPM 8 FILE: cm250h

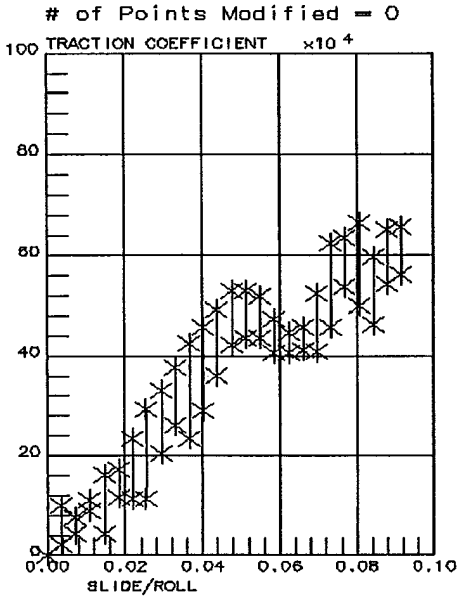


CM 93-172 PAO+16.5% 93-141 + Additives#133
250F 99LBF 7769RPM 9 FILE: cm250h

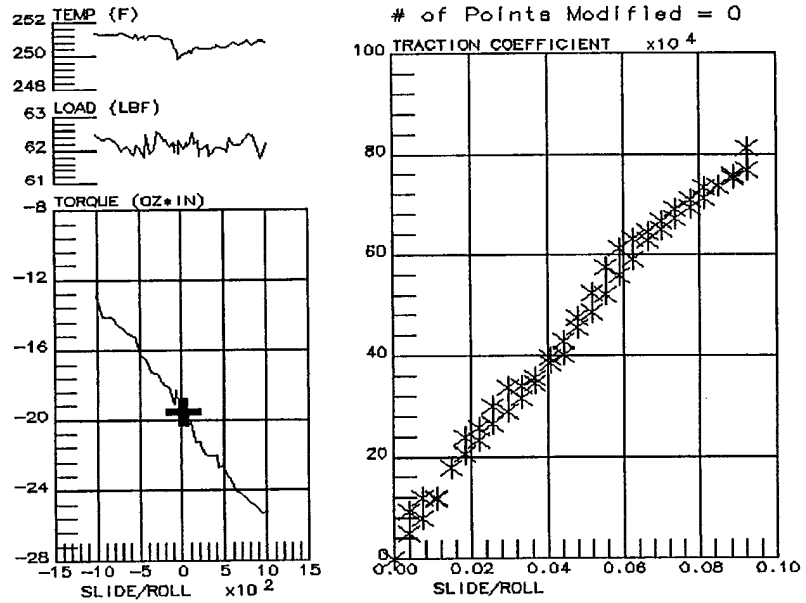


CM 93-172 PAO+16.5% 93-141 + Additives#134
250F 36LBF 10371RPM 10 FILE: cm250h

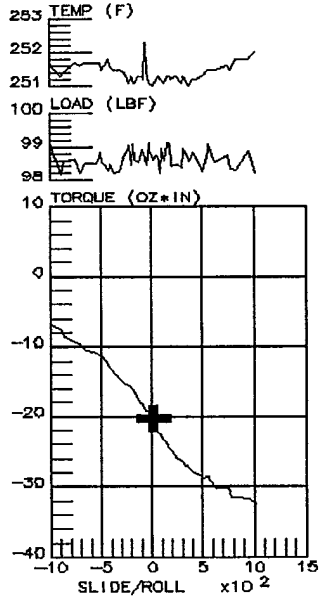


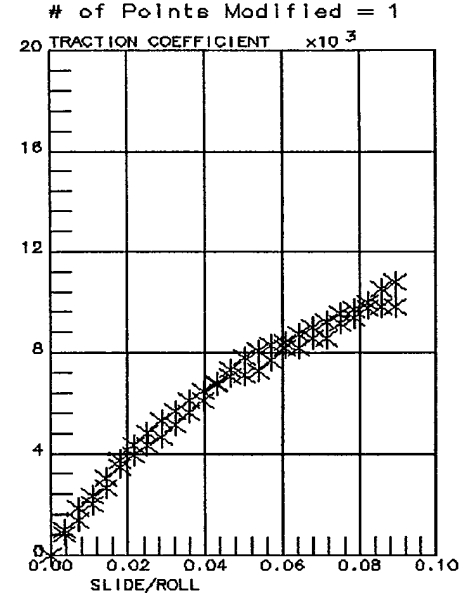


CM 93-172 PAO+16.5% 93-141 + Additives#135
250F 62LBF 10371RPM 11 FILE: cm250h

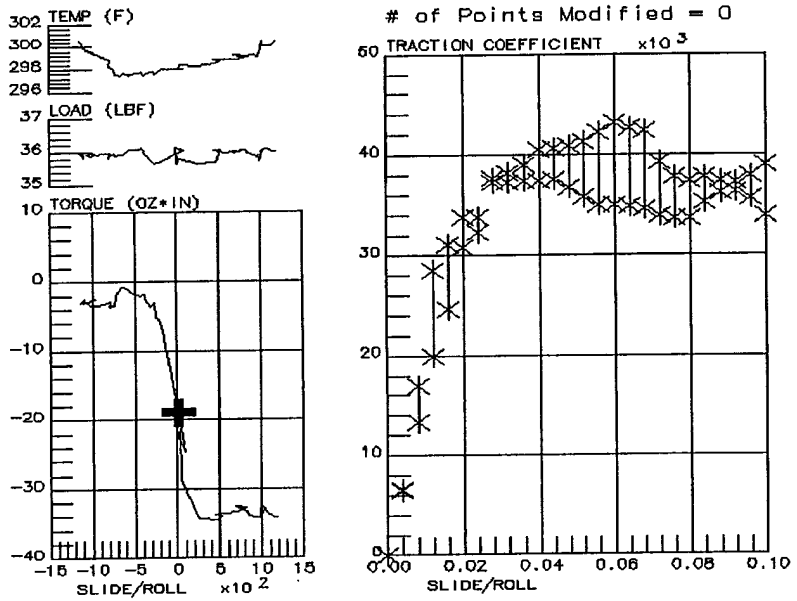


CM 93-172 PAO+16.5% 93-141 + Additives#136
250F 99LBF 10371RPM 12 FILE: cm250h

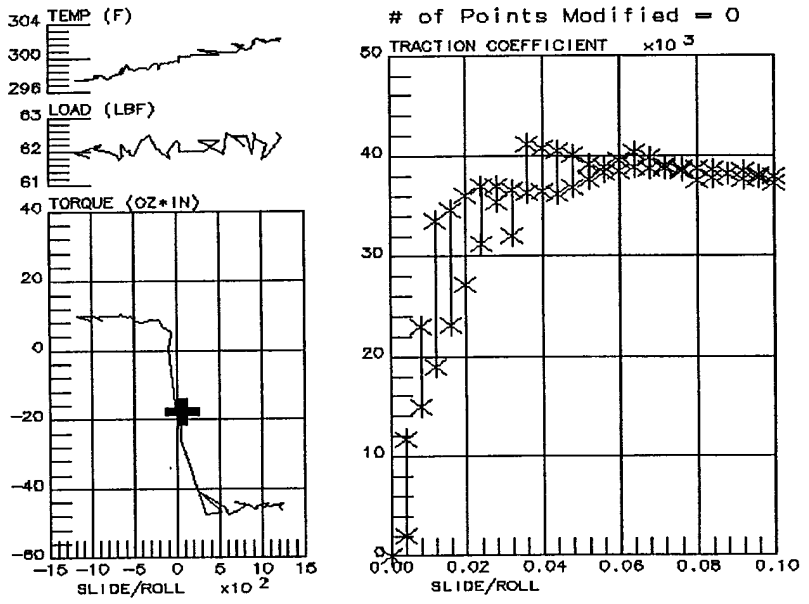




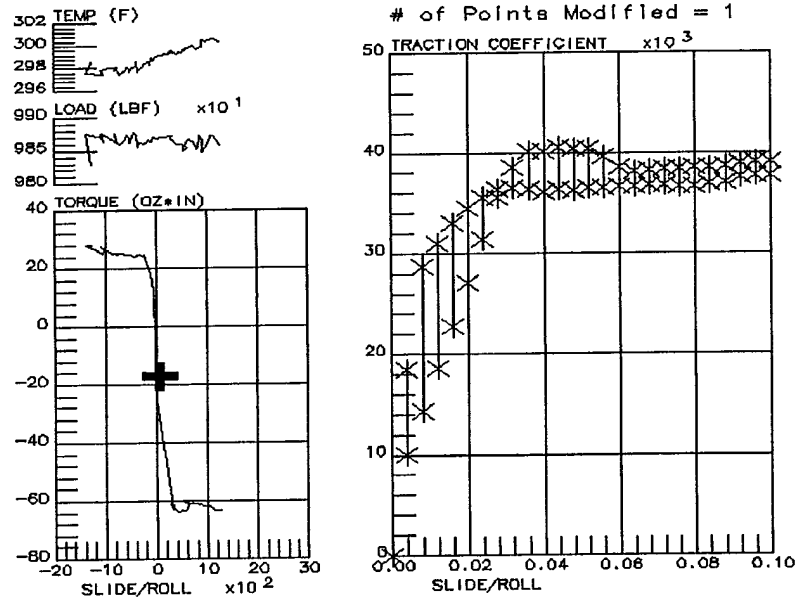
CM 93-172 PAO+16.5% 93-141 + Additives#137
300F 36LBF 310RPM 1 FILE: cm3001



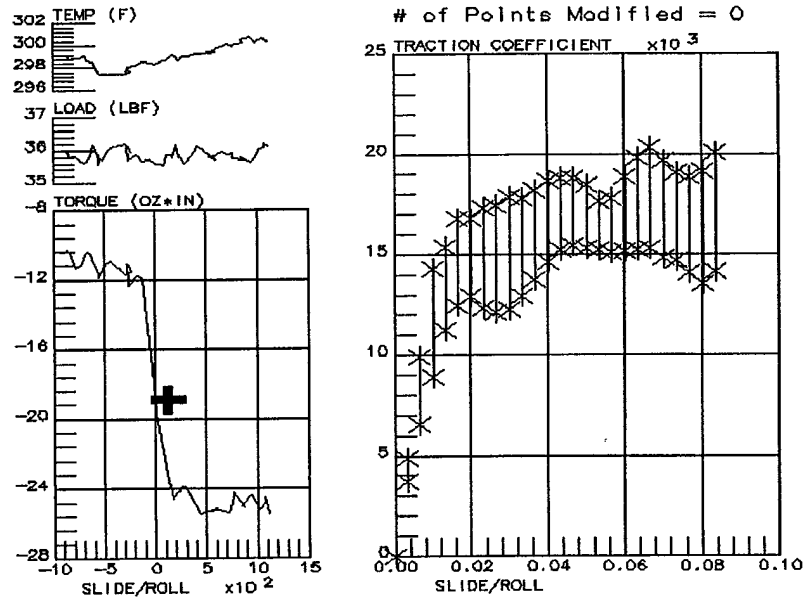
CM 93-172 PAO+16.5% 93-141 + Additives#138
300F 62LBF 310RPM 2 FILE: cm3001



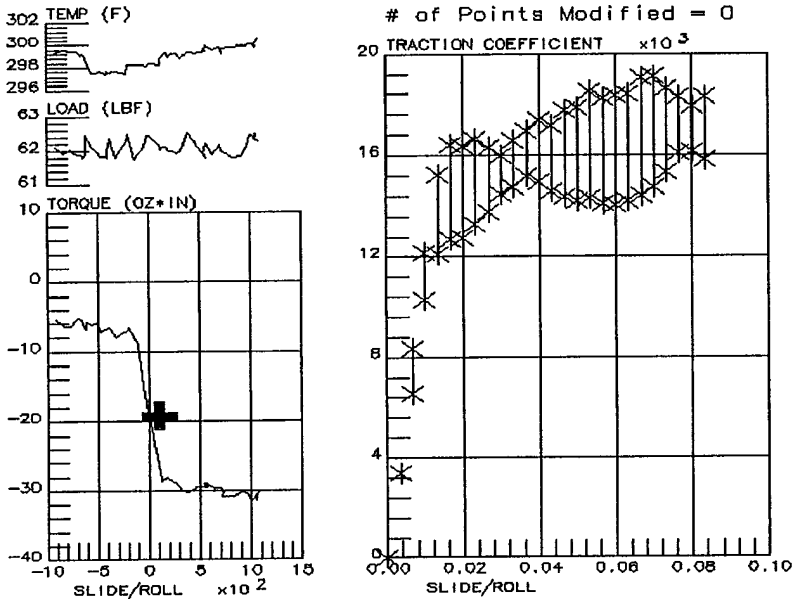
CM 93-172 PAO+16.5% 93-141 + Additives#139
300F 99LBF 310RPM 3 FILE: cm3001



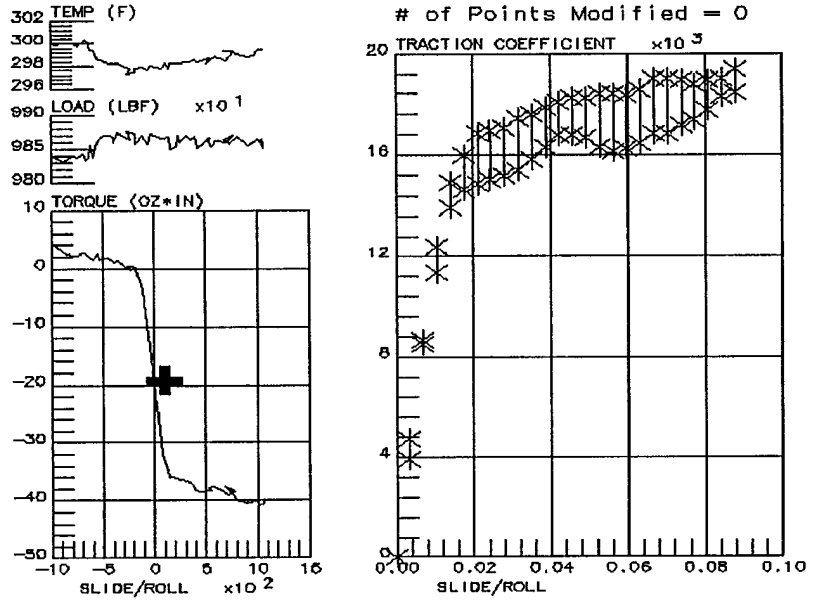
CM 93-172 PAO+16.5% 93-141 + Additives#140
300F 36LBF 660RPM 4 FILE: cm3001



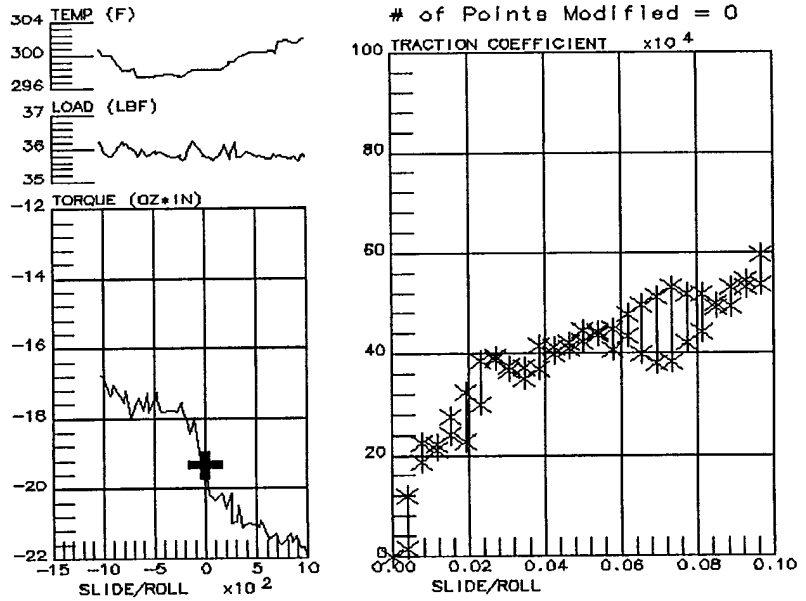
CM 93-172 PAO+16.5% 93-141 + Additives#141
300F 62LBF 660RPM 5 FILE: cm3001



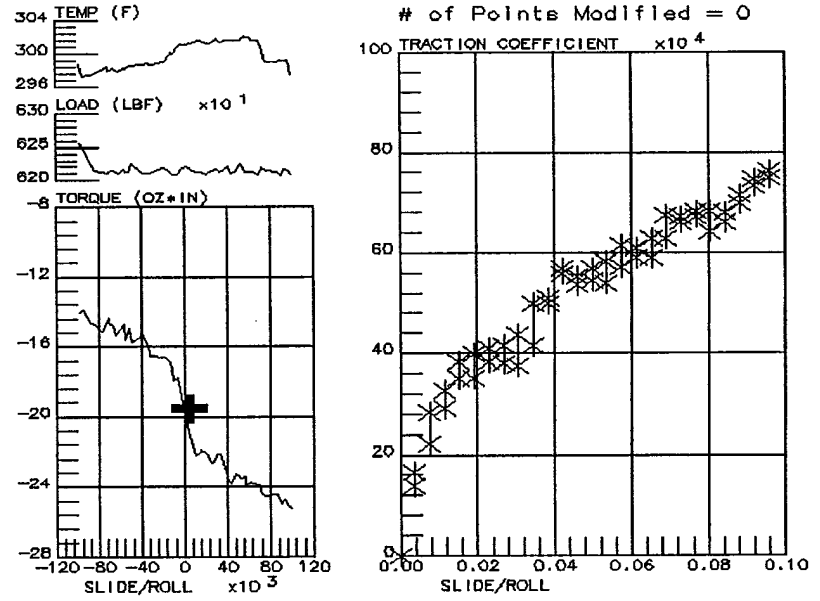
CM 93-172 PAO+16.5% 93-141 + Additives#142
300F 99LBF 660RPM 6 FILE: cm3001



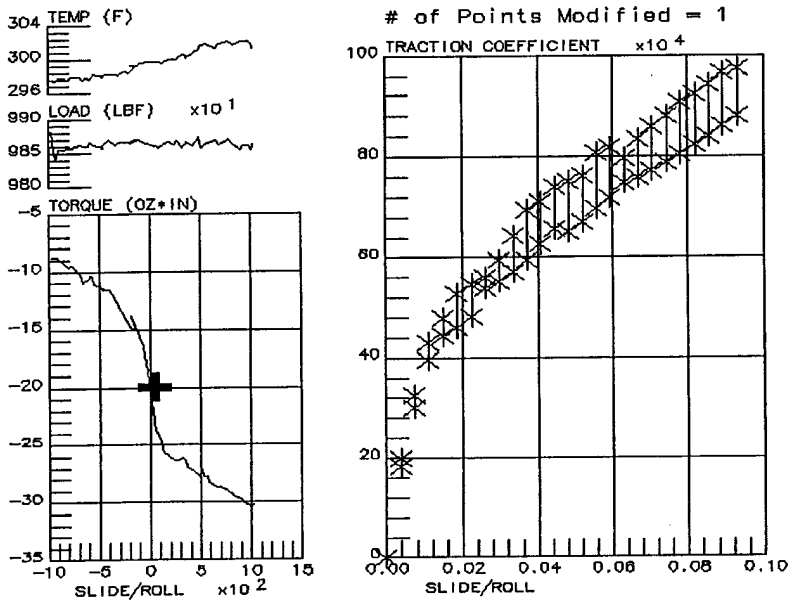
CM 93-172 PAO+16.5% 93-141 + Additives#143
300F 36LBF 1281RPM 7 FILE: cm3001



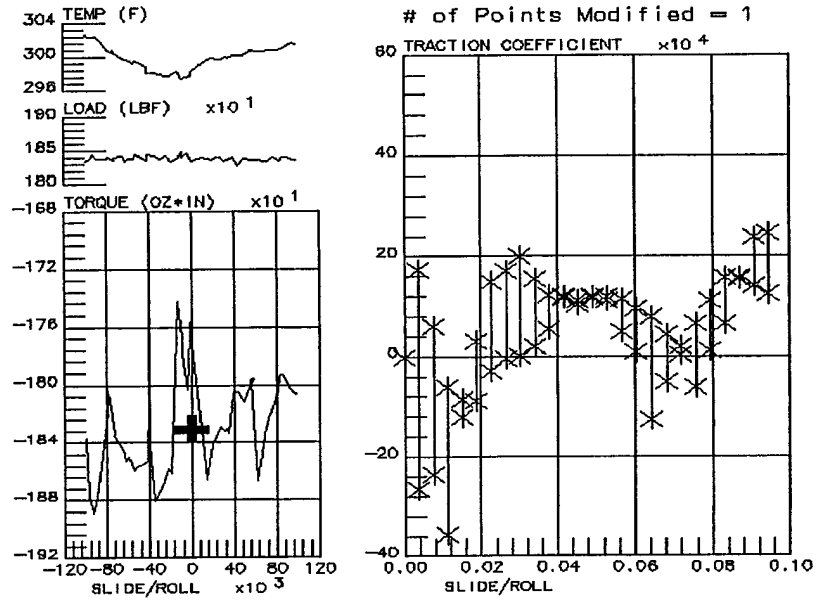
CM 93-172 PAO+16.5% 93-141 + Additives#144
300F 62LBF 1281RPM 8 FILE: cm3001



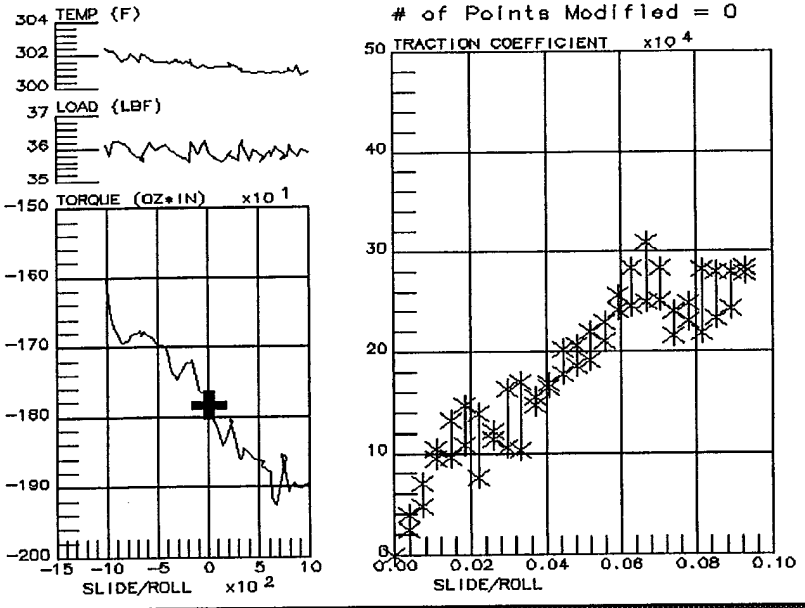
CM 93-172 PAO+16.5% 93-141 + Additives#145
300F 99LBF 1281RPM 9 FILE: cm3001



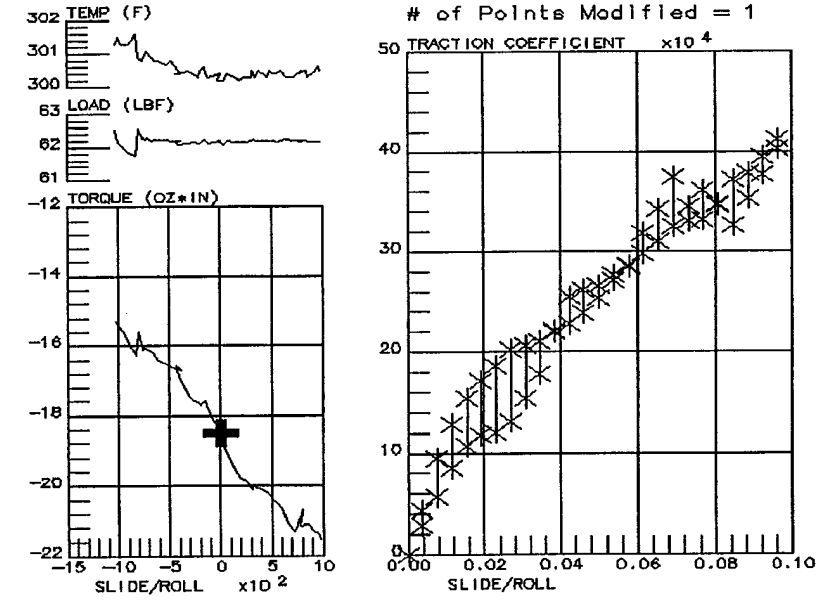
CM 93-172 PAO+16.5% 93-141 + Additives#146
300F 18LBF 2602RPM 1 FILE: cm300h



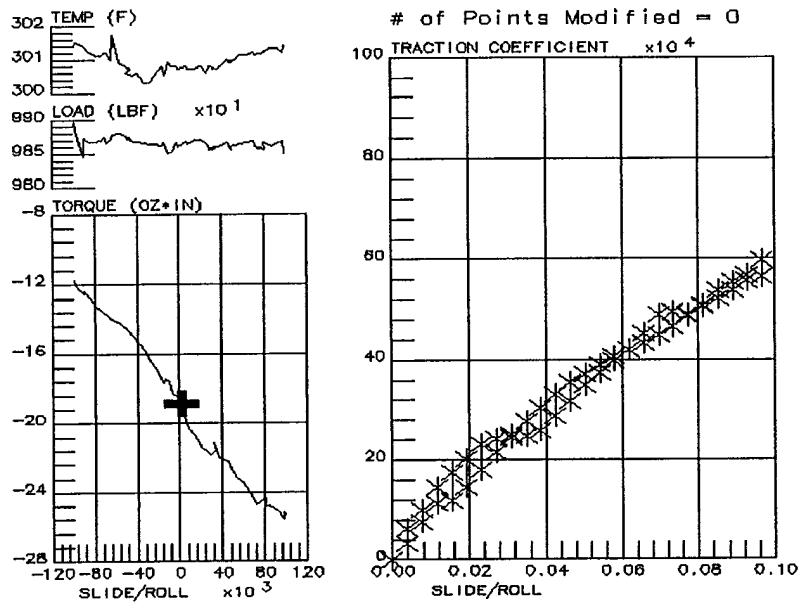
CM 93-172 PAO+16.5% 93-141 + Additives#147
300F 36LBF 2602RPM 2 FILE: cm300h



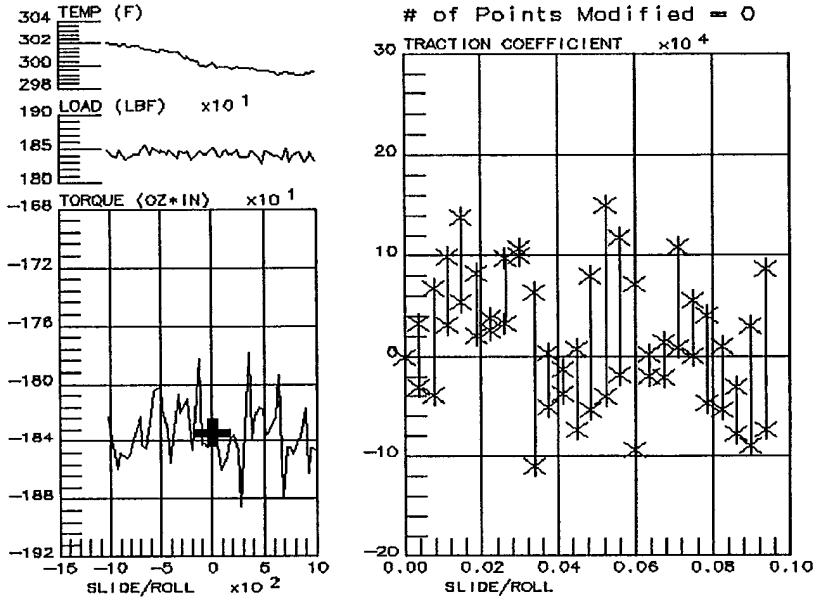
CM 93-172 PAO+16.5% 93-141 + Additives#148
300F 62LBF 2602RPM 3 FILE: cm300h



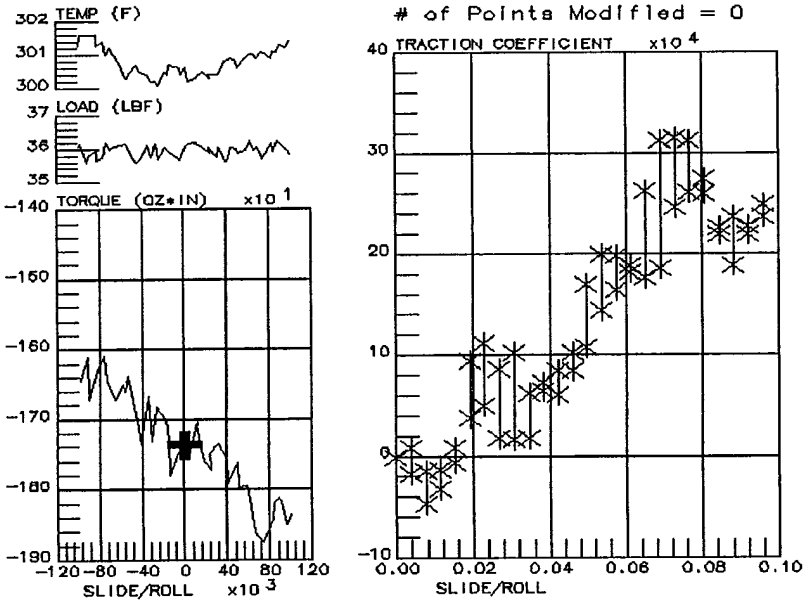
CM 93-172 PAO+16.5% 93-141 + Additives#149
300F 99LBF 2602RPM 4 FILE: cm300h



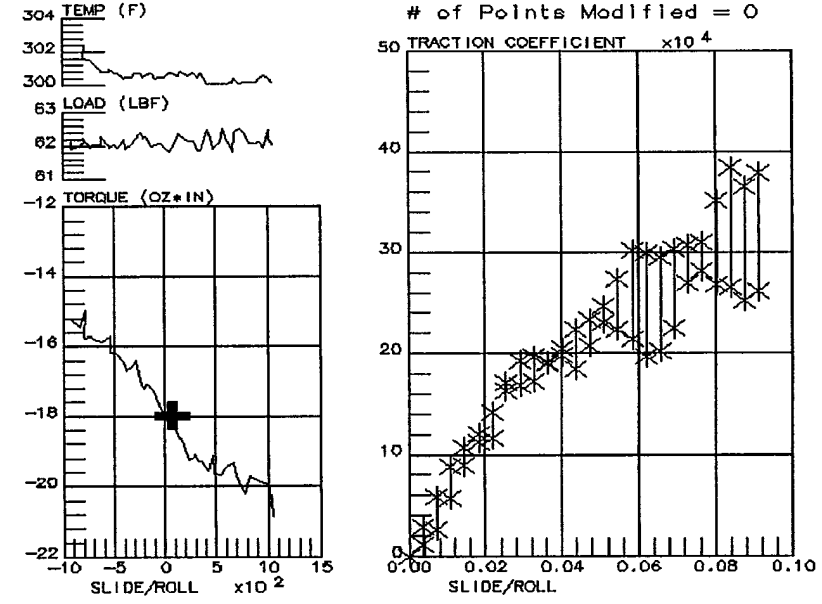
CM 93-172 PAO+16.5% 93-141 + Additives#150
300F 18LBF 5166RPM 5 FILE: cm300h



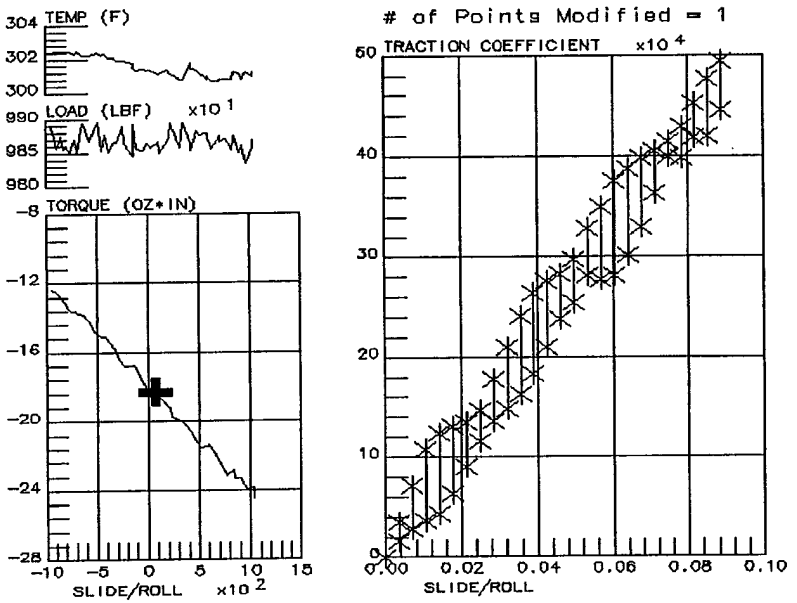
CM 93-172 PAO+16.5% 93-141 + Additives#151
300F 36LBF 5166RPM 6 FILE: cm300h



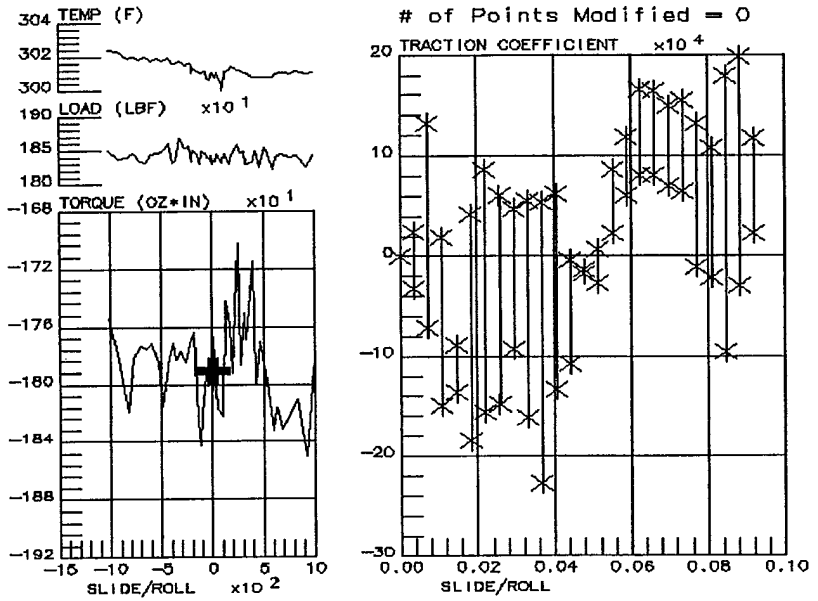
CM 93-172 PAO+16.5% 93-141 + Additives#152
300F 82LBF 5166RPM 7 FILE: cm300h



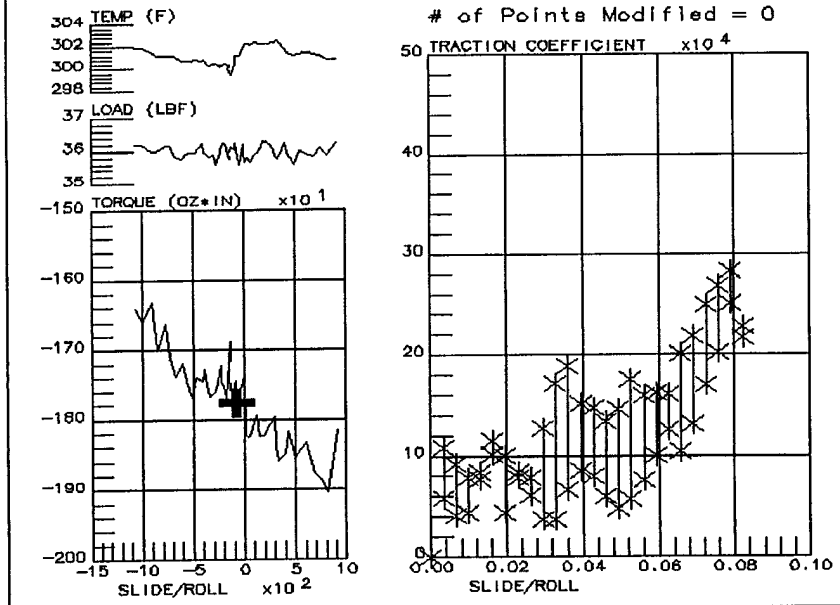
CM 93-172 PAO+16.5% 93-141 + Additives#153
300F 99LBF 5166RPM 8 FILE: cm300h



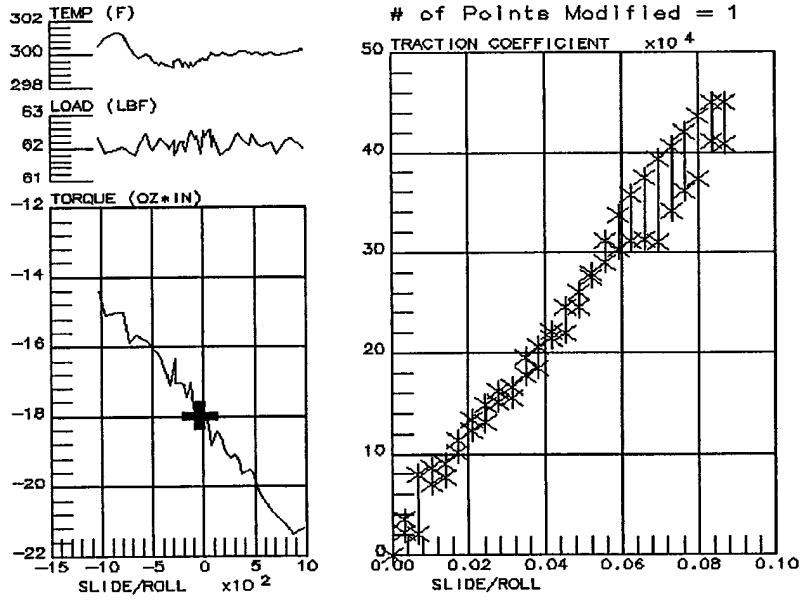
CM 93-172 PAO+16.5% 93-141 + Additives#154
300F 18LBF 7769RPM 9 FILE: cm300h



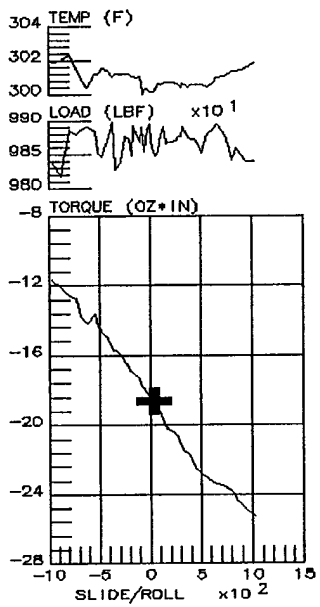
CM 93-172 PAO+16.5% 93-141 + Additives#155
300F 36LBF 7769RPM 10 FILE: cm300h

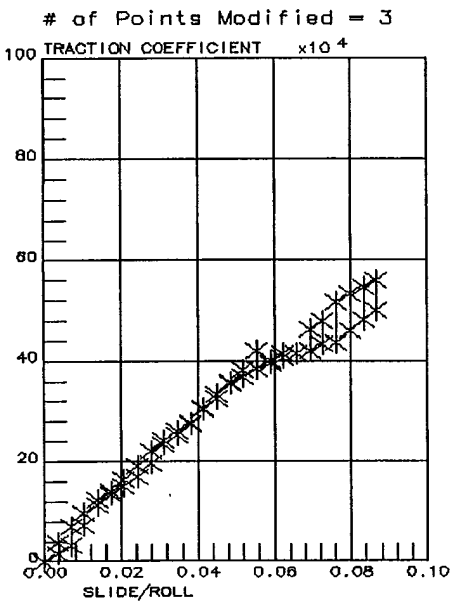


CM 93-172 PAO+16.5% 93-141 + Additives#156
300F 62LBF 7769RPM 11 FILE: cm300h

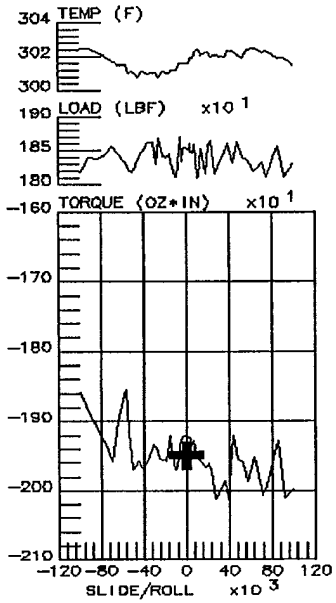


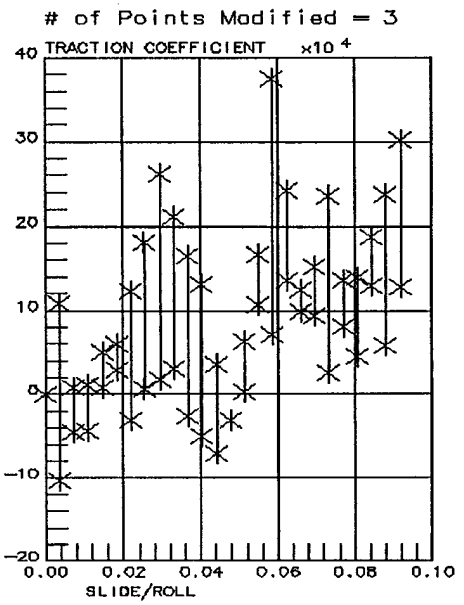
CM 93-172 PAO+16.5% 93-141 + Additives#157
300F 99LBF 7769RPM 12 FILE: cm300h



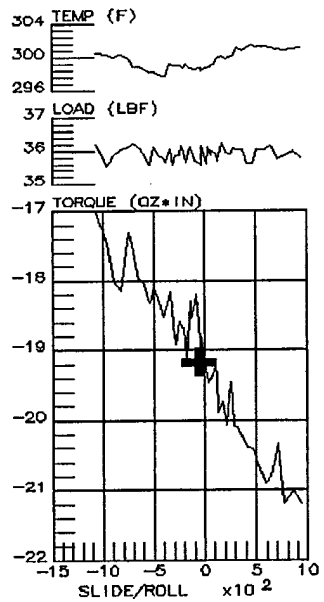


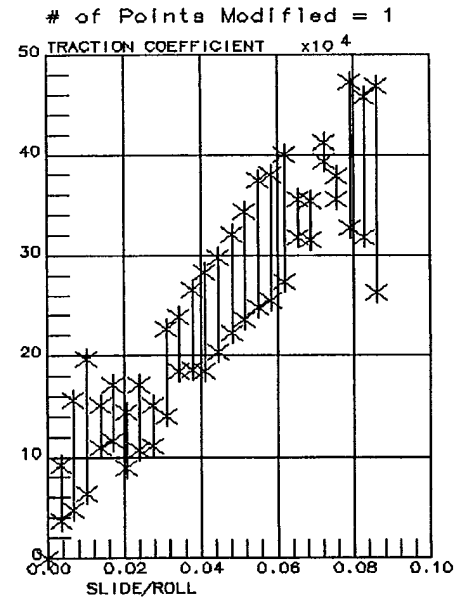
CM 93-172 PAO+16.5% 93-141 + Additives#158
300F 18LBF 10371RPM 13 FILE: cm300h



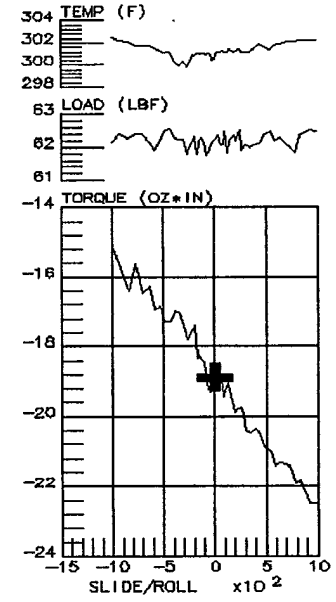


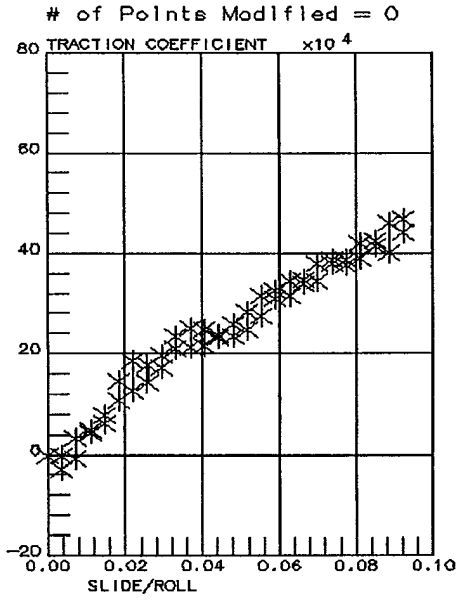
CM 93-172 PAO+16.5% 93-141 + Additives#159
300F 36LBF 10371RPM 14 FILE: cm300h

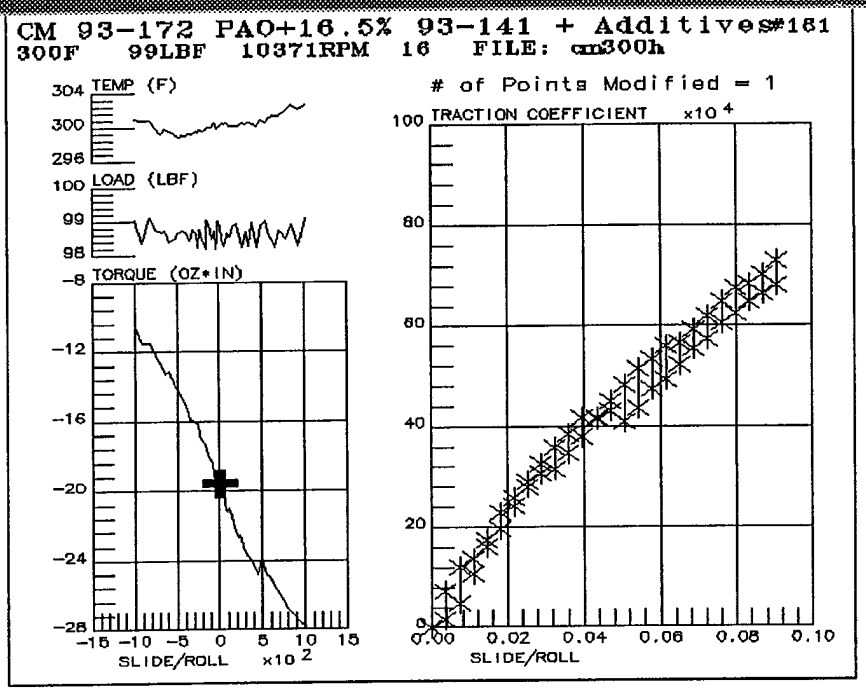




CM 93-172 PAO+16.5% 93-141 + Additives#160
300F 62LBF 10371RPM 15 FILE: cm300h






CM 93-172 PAO+16.5% 93-141 + Additives#161
300F 99LBF 10371RPM 16 FILE: cm300h
# of Points Modified = 1
304 TEMP (F)
300
296
100 LOAD (LBF)
99
98
-8 TORQUE (OZ*IN)
-12
-16
-20
-24
-28
-15 -10 -5 0 5 10 15
SLIDE/ROLL x10 2
100 TRACTION COEFFICIENT x10 4
80
60
40
20
0
0.00 0.02 0.04 0.06 0.08 0.10
SLIDE/ROLL

Lubricant name = CM 93-172 PAO+16.5% 93-141 + Additives

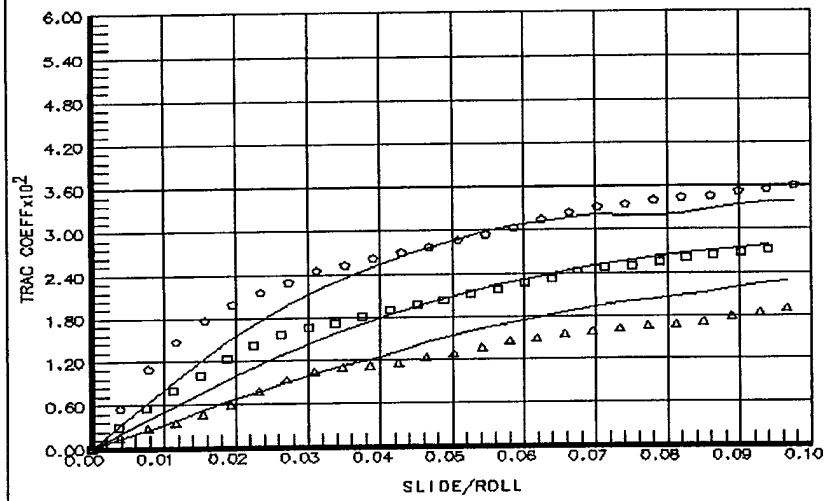
NEWTONIAN MODEL TYPE 1

Dataset Name	Inlet Temp (K)	Roll Velocity (M/S)	XMU* (Pa.S)	ALFA* (1/Pa)	BETA* (1/K)
cm1.dat	3.0000E+02	2.4703E+00	2.8124E+00	1.2000E-08	2.4576E-01
cm2.dat	3.0000E+02	5.0177E+00	1.9783E+00	1.2000E-08	1.2710E-01
cm3.dat	3.0000E+02	9.9622E+00	1.3729E+00	1.2000E-08	8.3533E-02
cm4.dat	3.0000E+02	1.4982E+01	1.0436E+00	1.2000E-08	6.7178E-02
cm5.dat	3.0000E+02	2.0000E+01	1.0687E+00	1.2000E-08	7.3343E-02
cm6.dat	3.1111E+02	2.4703E+00	1.5462E+00	1.2000E-08	3.3771E-01
cm7.dat	3.1111E+02	5.0177E+00	1.2401E+00	1.2000E-08	1.5944E-01
cm8.dat	3.1111E+02	9.9622E+00	8.3510E-01	1.2000E-08	9.0319E-02
cm9.dat	3.1111E+02	1.4982E+01	7.1521E-01	1.2000E-08	7.5653E-02
cm10.dat	3.1111E+02	2.0000E+01	8.2214E-01	1.2000E-08	8.6323E-02
cm12.dat	3.3889E+02	5.0177E+00	3.2954E-01	1.2000E-08	2.9494E-01
cm13.dat	3.3889E+02	9.9622E+00	2.1307E-01	1.2000E-08	1.2438E-01
cm14.dat	3.3889E+02	1.4982E+01	2.0647E-01	1.2000E-08	9.8464E-02
cm15.dat	3.3889E+02	2.0000E+01	3.0349E-01	1.2000E-08	1.3345E-01
cm17.dat	3.6667E+02	5.0177E+00	7.6527E-02	1.2000E-08	3.0662E-01
cm18.dat	3.6667E+02	9.9622E+00	5.9509E-02	1.2000E-08	1.7206E-01
cm19.dat	3.6667E+02	1.4982E+01	5.9892E-02	1.2000E-08	1.3702E-01
cm20.dat	3.6667E+02	2.0000E+01	8.4517E-02	1.2000E-08	1.7413E-01
cm24.dat	3.9444E+02	1.4982E+01	1.9807E-02	1.2000E-08	1.6523E-01
cm25.dat	3.9444E+02	2.0000E+01	3.0183E-02	1.2000E-08	2.3439E-01

CM 93-172 PAO+16.5% 93-141 + Additives

NEWTONIAN MODEL TYPE 1 cm1.dat

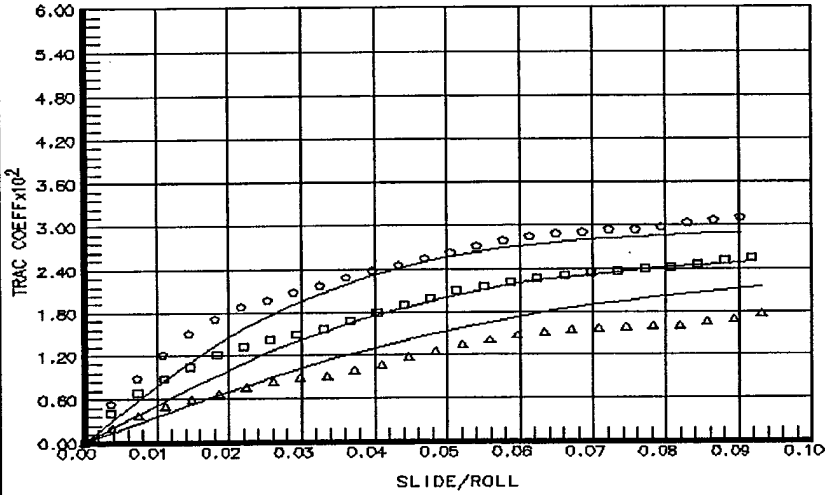
						XMU*	ALFA*	BETA*
△	316MPA	160N	2.47M/S	300K	# 6	2.812E+00	1.200E-08	2.468E-01
□	379MPA	276N	2.47M/S	300K	# 7	2.812E+00	1.200E-08	2.468E-01
○	442MPA	440N	2.47M/S	300K	# 8	2.812E+00	1.200E-08	2.468E-01



CM 93-172 PAO+16.5% 93-141 + Additive

NEWTONIAN MODEL TYPE 1 cm2.dat

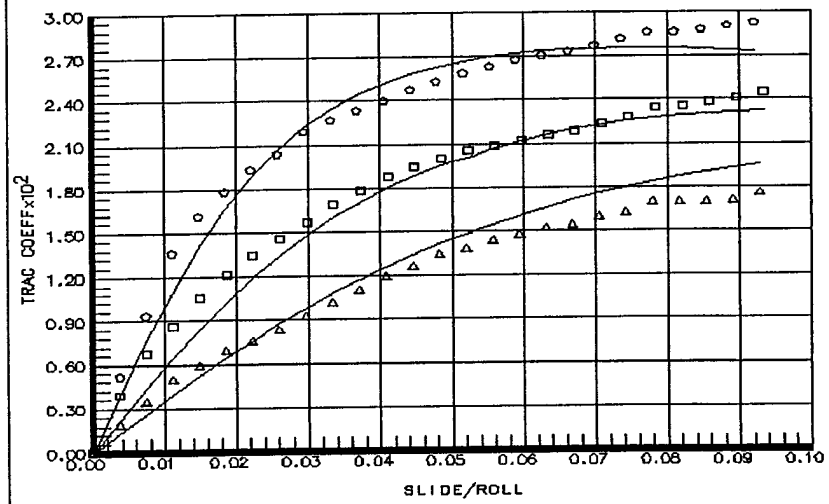
						XMU*	ALFA*	BETA*
△	316MPA	160N	5.02M/S	300K	# 14	1.978E+00	1.200E-08	1.271E-01
□	350MPA	276N	5.02M/S	300K	# 15	1.978E+00	1.200E-08	1.271E-01
○	442MPA	440N	5.02M/S	300K	# 16	1.978E+00	1.200E-08	1.271E-01



CM 93-172 PAO+16.5% 93-141 + Additives

NEWTONIAN MODEL TYPE 1 cm3.dat

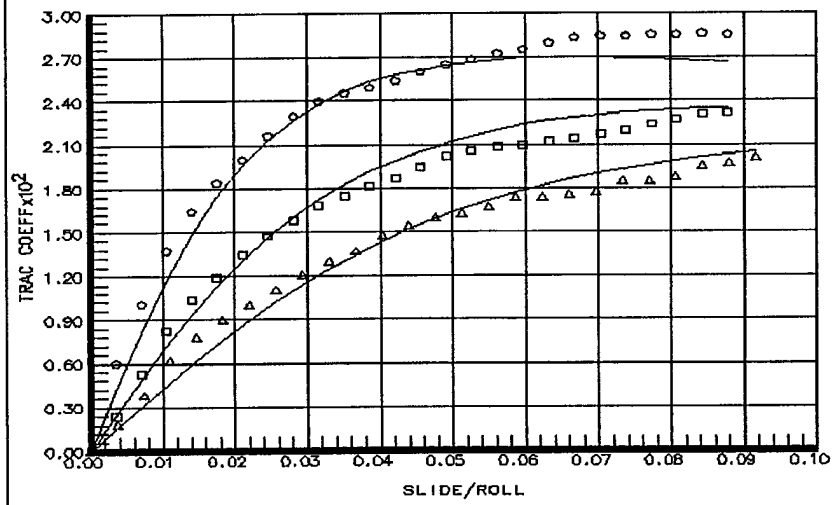
						XMU*	ALFA*	BETA*
△	316MPA	160N	9.96M/S	300K	# 18	1.373E+00	1.200E-08	8.353E-02
□	379MPA	276N	9.96M/S	300K	# 19	1.373E+00	1.200E-08	8.353E-02
○	442MPA	440N	9.96M/S	300K	# 20	1.373E+00	1.200E-08	8.353E-02



CM 93-172 PAO+16.5% 93-141 + Additive

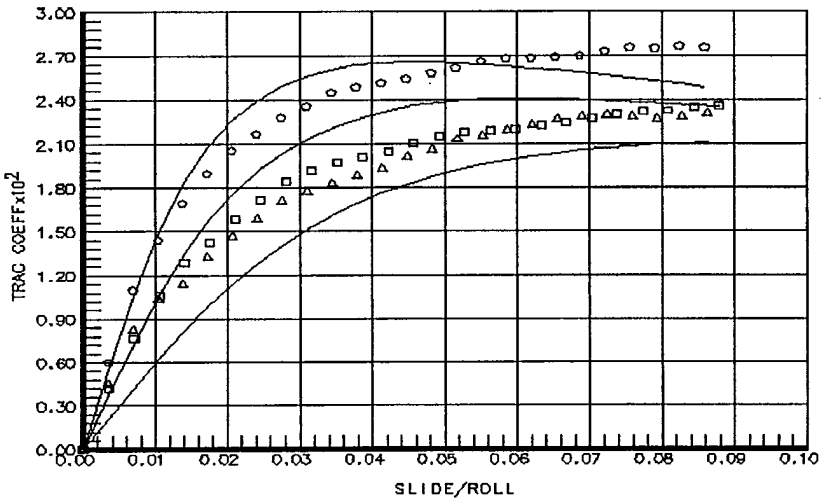
NEWTONIAN MODEL TYPE 1 cm4.dat

						XMU*	ALFA*	BETA*
△	316MPA	160N	14.98M/S	300K	# 22	1.044E+00	1.200E-08	6.718E-02
□	379MPA	276N	14.98M/S	300K	# 23	1.044E+00	1.200E-08	6.718E-02
○	442MPA	440N	14.98M/S	300K	# 24	1.044E+00	1.200E-08	6.718E-02



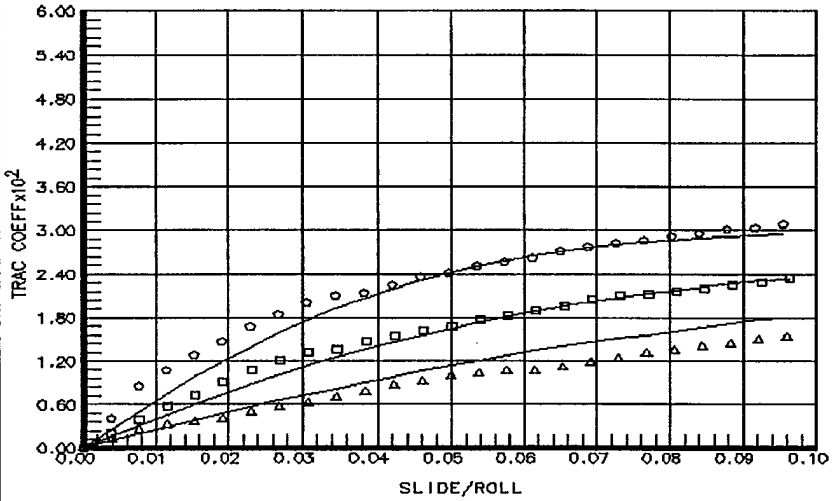
CM 93-172 PAO+16.5% 93-141 + Additives
NEWTONIAN MODEL TYPE 1 cm5.dat

					XMU*	ALFA*	BETA*
△	316MPA	160N	20.00M/S	300K # 28	1.069E+00	1.200E-08	7.334E-02
□	379MPA	276N	20.00M/S	300K # 27	1.069E+00	1.200E-08	7.334E-02
○	442MPA	440N	20.00M/S	300K # 26	1.069E+00	1.200E-08	7.334E-02



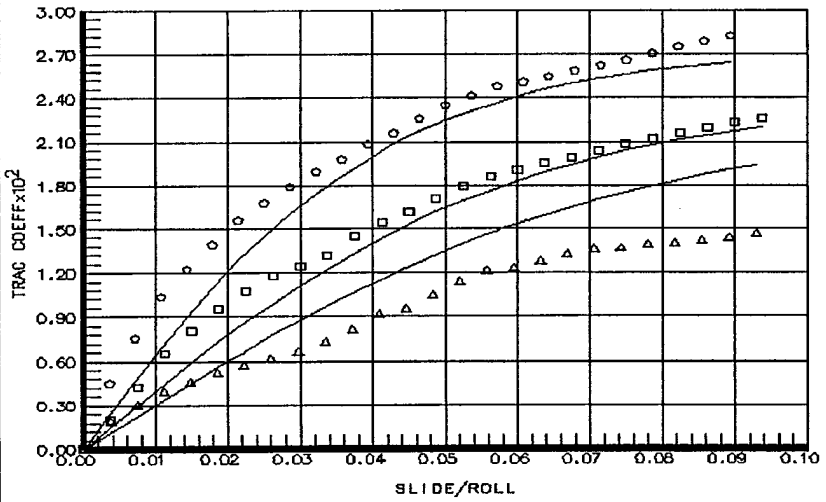
CM 93-172 PAO+16.5% 93-141 + Additive
NEWTONIAN MODEL TYPE 1 cm6.dat

					XMU*	ALFA*	BETA*
△	316MPA	160N	2.47M/S	311K # 38	1.546E+00	1.200E-08	3.377E-01
□	379MPA	276N	2.47M/S	311K # 39	1.546E+00	1.200E-08	3.377E-01
○	442MPA	440N	2.47M/S	311K # 40	1.546E+00	1.200E-08	3.377E-01



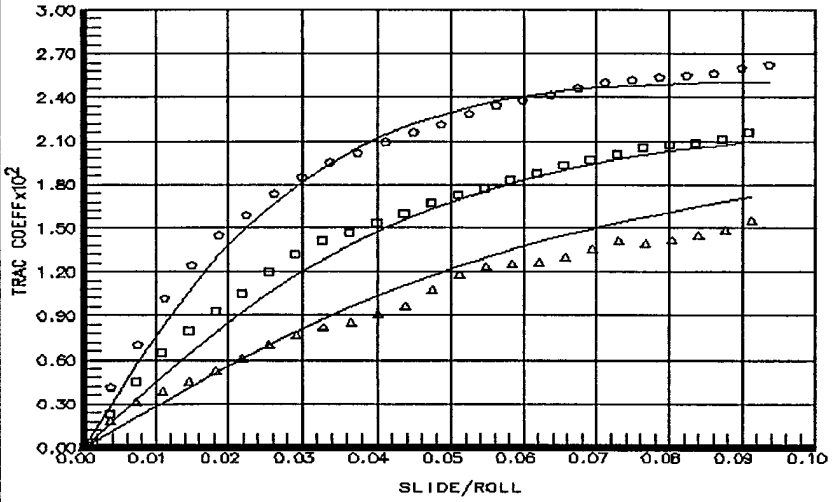
CM 93-172 PAO+16.5% 93-141 + Additives
NEWTONIAN MODEL TYPE 1 cm7.dat

					XMU*	ALFA*	BETA*
△	316MPA	160N	5.02M/S	311K # 42	1.240E+00	1.200E-08	1.594E-01
□	379MPA	276N	5.02M/S	311K # 43	1.240E+00	1.200E-08	1.594E-01
○	443MPA	440N	5.02M/S	311K # 44	1.240E+00	1.200E-08	1.594E-01



CM 93-172 PAO+16.5% 93-141 + Additive
NEWTONIAN MODEL TYPE 1 cm8.dat

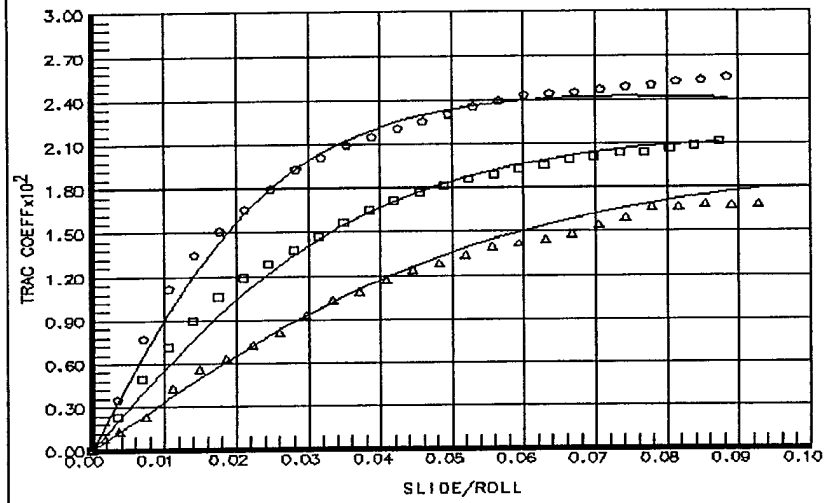
					XMU*	ALFA*	BETA*
△	316MPA	160N	9.96M/S	311K # 46	8.351E-01	1.200E-08	9.032E-02
□	379MPA	276N	9.96M/S	311K # 47	8.351E-01	1.200E-08	9.032E-02
○	442MPA	440N	9.96M/S	311K # 48	8.351E-01	1.200E-08	9.032E-02



CM 93-172 PAO+16.5% 93-141 + Additives

NEWTONIAN MODEL TYPE 1 cm9.dat

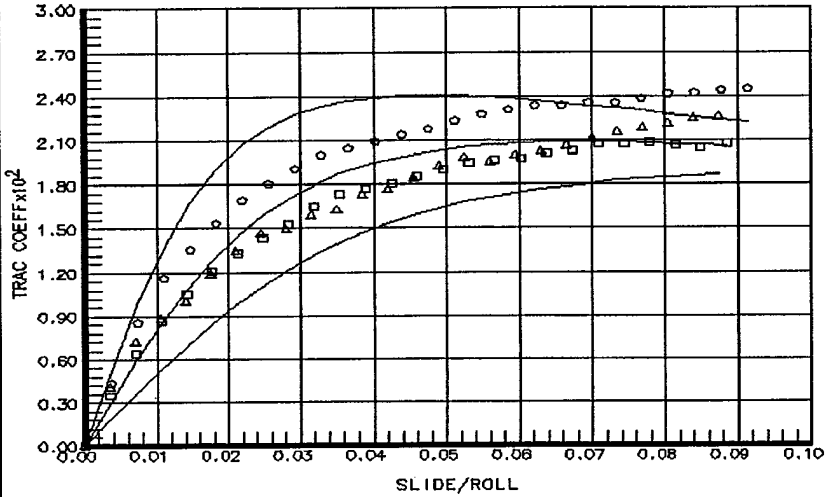
					XMU*	ALFA*	BETA*
△	316MPA	160N	14.98M/S	311K # 50	7.152E-01	1.200E-08	7.565E-02
□	379MPA	276N	14.98M/S	311K # 51	7.152E-01	1.200E-08	7.565E-02
○	442MPA	440N	14.98M/S	311K # 52	7.152E-01	1.200E-08	7.565E-02



CM 93-172 PAO+16.5% 93-141 + Additive

NEWTONIAN MODEL TYPE 1 cm10.dat

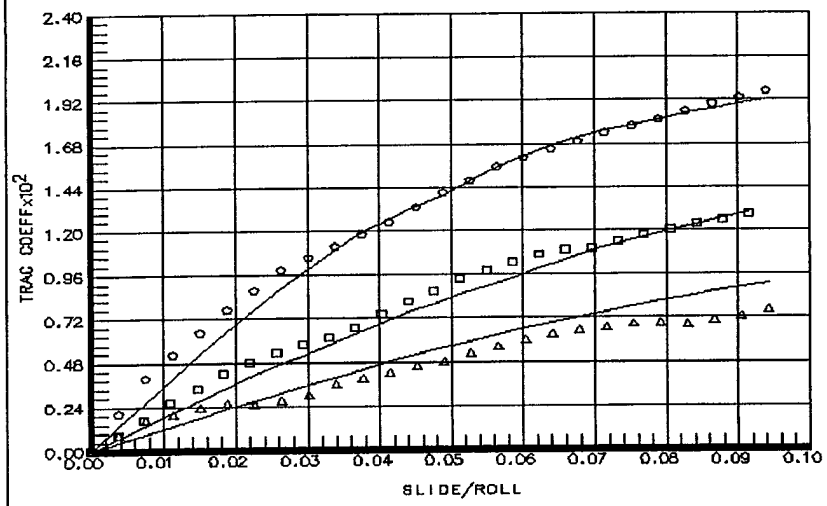
					XMU*	ALFA*	BETA*
△	316MPA	160N	20.00M/S	311K # 54	8.221E-01	1.200E-08	8.632E-02
□	379MPA	276N	20.00M/S	311K # 55	8.221E-01	1.200E-08	8.632E-02
○	442MPA	440N	20.00M/S	311K # 56	8.221E-01	1.200E-08	8.632E-02



CM 93-172 PAO+16.5% 93-141 + Additives

NEWTONIAN MODEL TYPE 1 cm12.dat

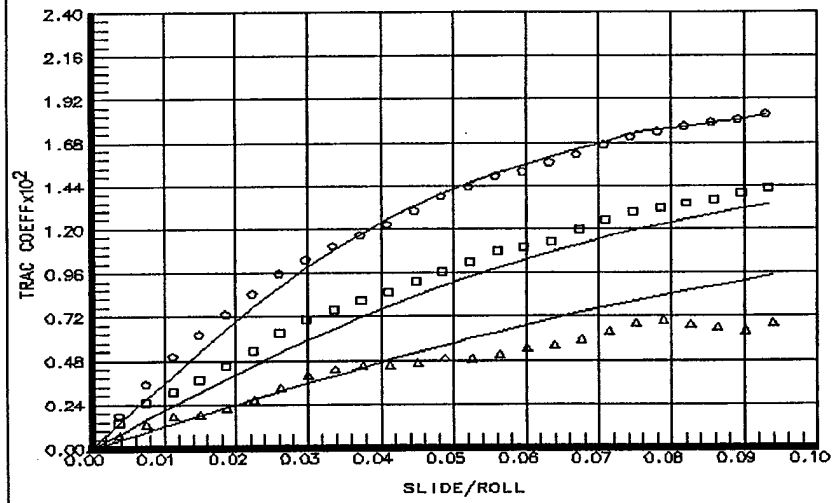
					XMU*	ALFA*	BETA*
△	316MPA	160N	5.02M/S	339K # 69	3.295E-01	1.200E-08	2.949E-01
□	379MPA	276N	5.02M/S	339K # 70	3.295E-01	1.200E-08	2.949E-01
○	442MPA	440N	5.02M/S	339K # 71	3.295E-01	1.200E-08	2.949E-01



CM 93-172 PAO+16.5% 93-141 + Additive

NEWTONIAN MODEL TYPE 1 cm13.dat

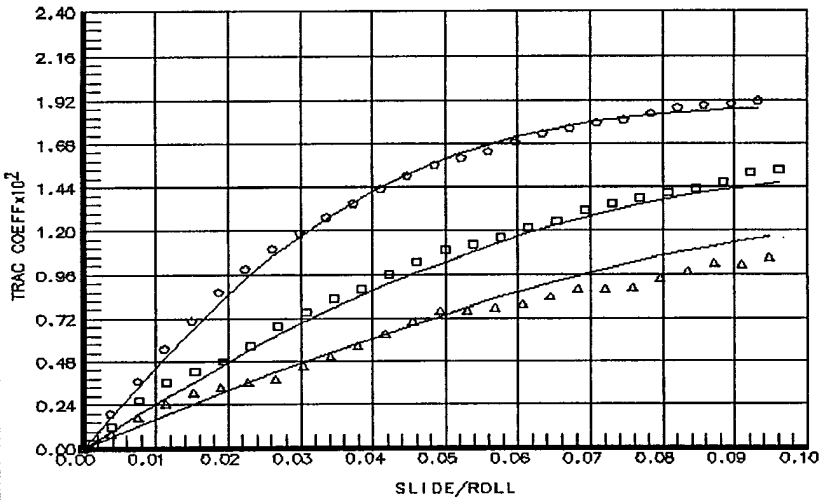
					XMU*	ALFA*	BETA*
△	316MPA	160N	9.96M/S	339K # 72	2.131E-01	1.200E-08	1.244E-01
□	379MPA	276N	9.96M/S	339K # 73	2.131E-01	1.200E-08	1.244E-01
○	442MPA	440N	9.96M/S	339K # 74	2.131E-01	1.200E-08	1.244E-01



CM 93-172 PAO+16.5% 93-141 + Additives

NEWTONIAN MODEL TYPE 1 cmi4.dat

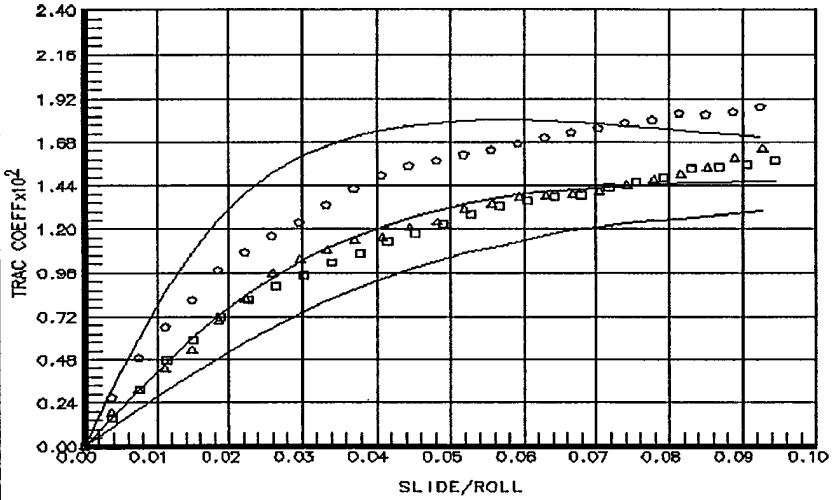
					XMU*	ALFA*	BETA*
△	316MPA	160N	14.98M/S	339K # 75	2.066E-01	1.200E-08	9.846E-02
□	380MPA	276N	14.98M/S	339K # 76	2.066E-01	1.200E-08	9.846E-02
○	442MPA	440N	14.98M/S	339K # 77	2.066E-01	1.200E-08	9.846E-02



CM 93-172 PAO+16.5% 93-141 + Additives

NEWTONIAN MODEL TYPE 1 cmi6.dat

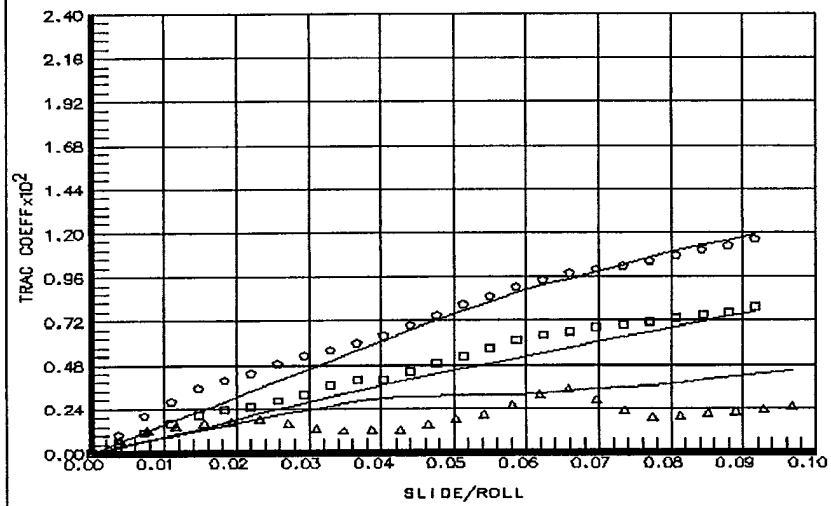
					XMU*	ALFA*	BETA*
△	316MPA	160N	20.00M/S	339K # 78	3.035E-01	1.200E-08	1.336E-01
□	379MPA	276N	20.00M/S	339K # 79	3.035E-01	1.200E-08	1.336E-01
○	442MPA	440N	20.00M/S	339K # 80	3.035E-01	1.200E-08	1.336E-01



CM 93-172 PAO+16.5% 93-141 + Additives

NEWTONIAN MODEL TYPE 1 cmi7.dat

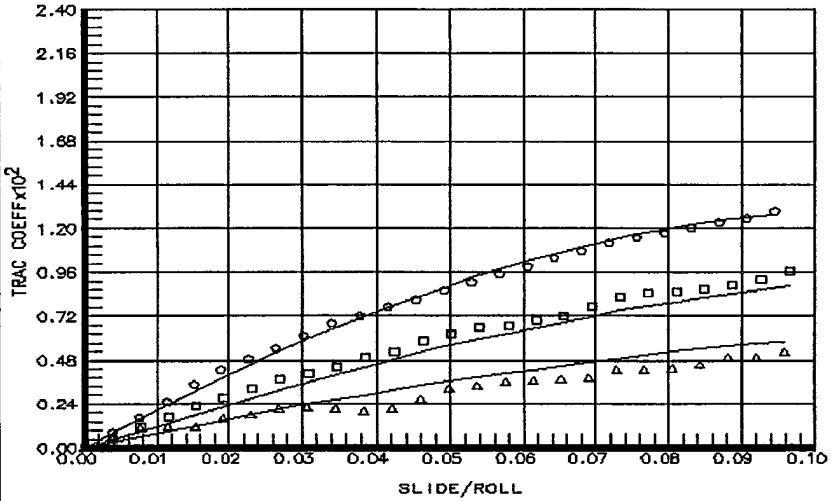
					XMU*	ALFA*	BETA*
△	316MPA	160N	5.02M/S	367K # 93	7.653E-02	1.200E-08	3.066E-01
□	379MPA	276N	5.02M/S	367K # 94	7.653E-02	1.200E-08	3.066E-01
○	442MPA	440N	5.02M/S	367K # 95	7.653E-02	1.200E-08	3.066E-01



CM 93-172 PAO+16.5% 93-141 + Additives

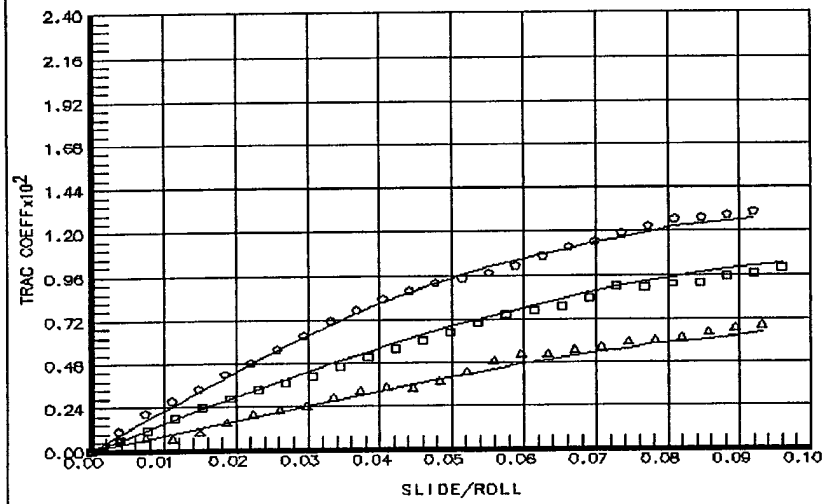
NEWTONIAN MODEL TYPE 1 cmi8.dat

					XMU*	ALFA*	BETA*
△	316MPA	160N	9.96M/S	367K # 96	5.951E-02	1.200E-08	1.721E-01
□	379MPA	276N	9.96M/S	367K # 97	5.951E-02	1.200E-08	1.721E-01
○	442MPA	440N	9.96M/S	367K # 98	5.951E-02	1.200E-08	1.721E-01



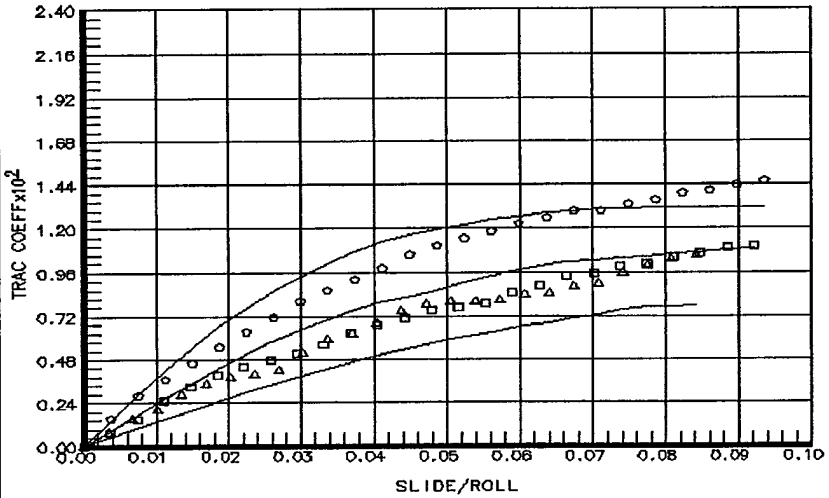
CM 93-172 PAO+16.5% 93-141 + Additives
NEWTONIAN MODEL TYPE 1 cm19.dat

					XMU*	ALFA*	BETA*
△	316MPA	160N	14.98M/S	367K # 99	5.989E-02	1.200E-08	1.370E-01
□	379MPA	276N	14.98M/S	367K #100	5.989E-02	1.200E-08	1.370E-01
○	442MPA	440N	14.98M/S	367K #101	5.989E-02	1.200E-08	1.370E-01



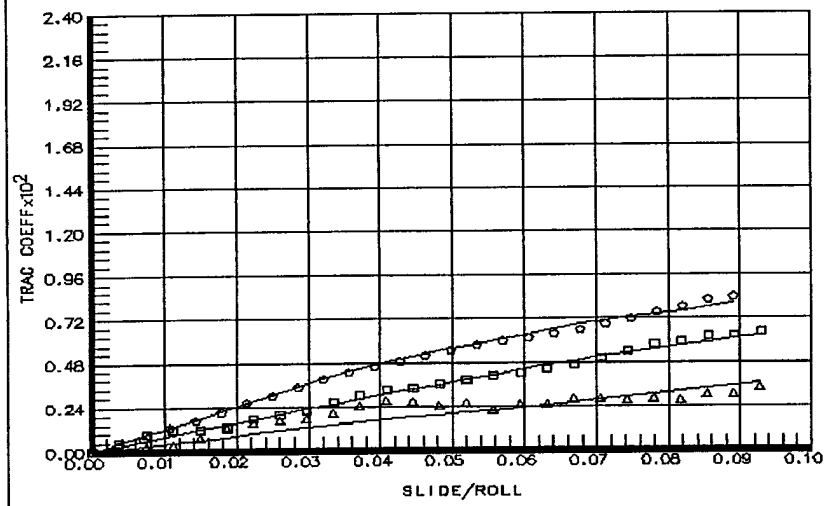
CM 93-172 PAO+16.5% 93-141 + Additive
NEWTONIAN MODEL TYPE 1 cm20.dat

					XMU*	ALFA*	BETA*
△	316MPA	160N	20.00M/S	367K #102	8.452E-02	1.200E-08	1.741E-01
□	379MPA	276N	20.00M/S	367K #103	8.452E-02	1.200E-08	1.741E-01
○	442MPA	440N	20.00M/S	367K #104	8.452E-02	1.200E-08	1.741E-01



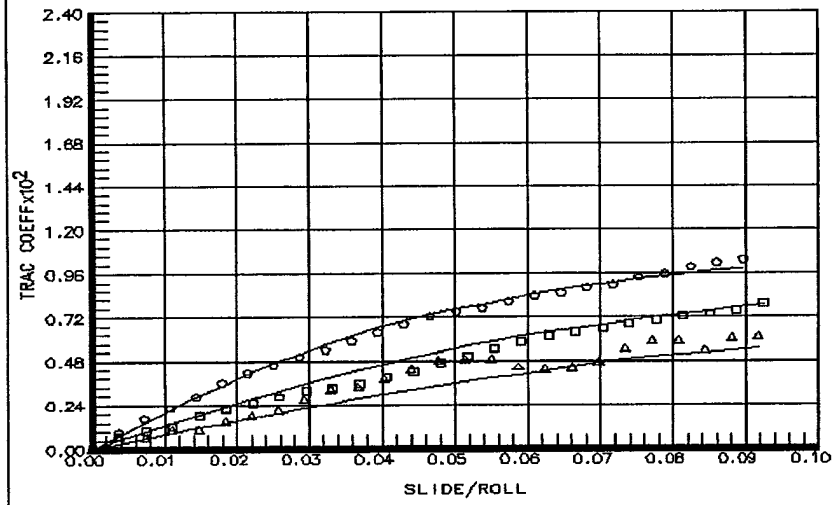
CM 93-172 PAO+16.5% 93-141 + Additives
NEWTONIAN MODEL TYPE 1 cm24.dat

					XMU*	ALFA*	BETA*
△	316MPA	160N	14.98M/S	394K #131	1.981E-02	1.200E-08	1.652E-01
□	379MPA	276N	14.98M/S	394K #132	1.981E-02	1.200E-08	1.652E-01
○	442MPA	440N	14.98M/S	394K #133	1.981E-02	1.200E-08	1.652E-01



CM 93-172 PAO+16.5% 93-141 + Additive
NEWTONIAN MODEL TYPE 1 cm25.dat

					XMU*	ALFA*	BETA*
△	316MPA	160N	20.00M/S	394K #134	3.018E-02	1.200E-08	2.344E-01
□	379MPA	276N	20.00M/S	394K #135	3.018E-02	1.200E-08	2.344E-01
○	442MPA	440N	20.00M/S	394K #136	3.018E-02	1.200E-08	2.344E-01



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8. Traction Data Set G: 84-473 95% PAO + 5% Bardahl

Data set name: AJ 84-473 95% PAO + 5% Bardahl
Rolling radii [Disks 1 & 2] (in): 0.54 0.54
Crown radii [Disks 1 & 2] (in): 38.27 37.70

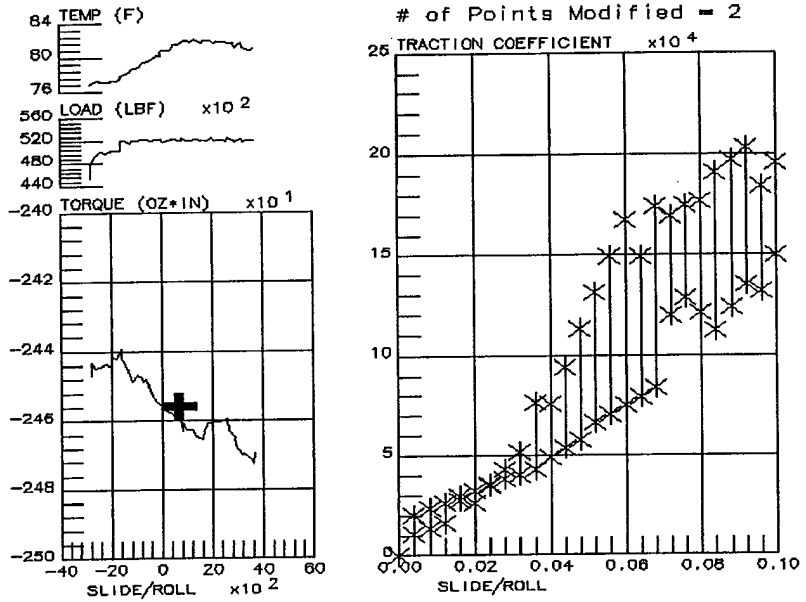
Number of data sets found = 42

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
1	77.00	4.90	250.00	350.00	300.00	49	84-473aj #1
2	77.00	7.03	250.00	350.00	300.00	49	84-473aj #2
3	77.00	9.16	250.00	350.00	300.00	49	84-473aj #3
4	77.00	10.58	250.00	350.00	300.00	49	84-473aj #4
5	77.00	11.29	250.00	350.00	300.00	49	84-473aj #5
6	77.00	13.42	250.00	350.00	300.00	49	84-473aj #6
7	77.00	16.26	250.00	350.00	300.00	49	84-473aj #7
8	77.00	4.90	500.00	700.00	600.00	49	84-473aj #8
9	77.00	7.03	500.00	700.00	600.00	49	84-473aj #9
10	77.00	9.16	500.00	700.00	600.00	49	84-473aj #10
11	77.00	10.58	500.00	700.00	600.00	49	84-473aj #11
12	77.00	11.29	500.00	700.00	600.00	49	84-473aj #12
13	77.00	13.42	500.00	700.00	600.00	49	84-473aj #13
14	77.00	16.26	500.00	700.00	600.00	49	84-473aj #14
15	77.00	4.90	1000.00	1400.00	1200.00	49	84-473aj #15
16	77.00	7.03	1000.00	1400.00	1200.00	49	84-473aj #16
17	77.00	9.16	1000.00	1400.00	1200.00	49	84-473aj #17
18	77.00	10.58	1000.00	1400.00	1200.00	49	84-473aj #18
19	77.00	11.29	1000.00	1400.00	1200.00	49	84-473aj #19
20	77.00	13.42	1000.00	1400.00	1200.00	49	84-473aj #20
21	77.00	16.26	1000.00	1400.00	1200.00	49	84-473aj #21
22	100.00	4.90	250.00	350.00	300.00	49	84-473aj #22
23	100.00	7.03	250.00	350.00	300.00	49	84-473aj #23
24	100.00	9.16	250.00	350.00	300.00	49	84-473aj #24
25	100.00	10.58	250.00	350.00	300.00	49	84-473aj #25
26	100.00	11.29	250.00	350.00	300.00	49	84-473aj #26
27	100.00	13.42	250.00	350.00	300.00	49	84-473aj #27
28	100.00	16.26	250.00	350.00	300.00	49	84-473aj #28
29	100.00	4.90	500.00	700.00	600.00	49	84-473aj #29
30	100.00	7.03	500.00	700.00	600.00	49	84-473aj #30
31	100.00	9.16	500.00	700.00	600.00	49	84-473aj #31
32	100.00	10.58	500.00	700.00	600.00	49	84-473aj #32
33	100.00	11.29	500.00	700.00	600.00	49	84-473aj #33
34	100.00	13.42	500.00	700.00	600.00	49	84-473aj #34
35	100.00	16.26	500.00	700.00	600.00	49	84-473aj #35
36	100.00	4.90	1000.00	1400.00	1200.00	49	84-473aj #36
37	100.00	7.03	1000.00	1400.00	1200.00	49	84-473aj #37
38	100.00	9.16	1000.00	1400.00	1200.00	49	84-473aj #38
39	100.00	10.58	1000.00	1400.00	1200.00	49	84-473aj #39
40	100.00	11.29	1000.00	1400.00	1200.00	49	84-473aj #40
41	100.00	13.42	1000.00	1400.00	1200.00	49	84-473aj #41
42	100.00	16.26	1000.00	1400.00	1200.00	49	84-473aj #42

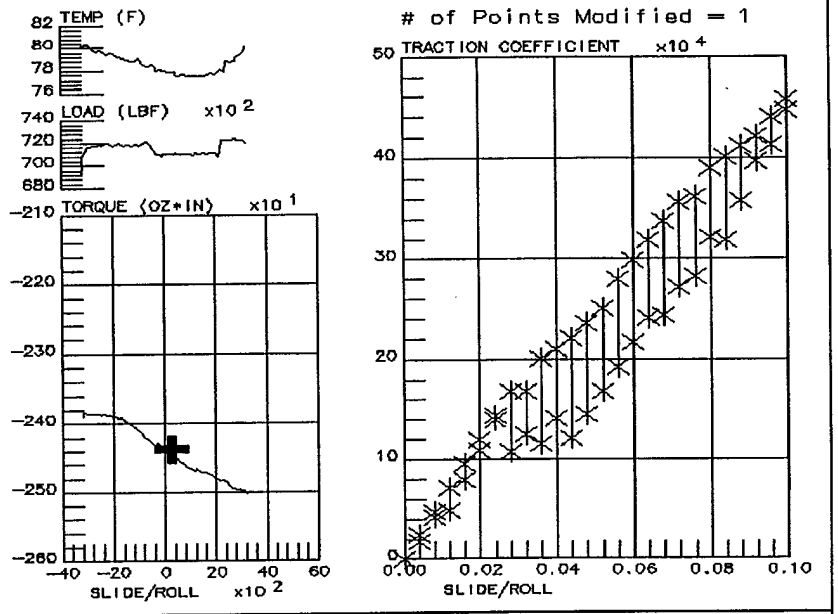
Summary of Select Data Files

Filename	Temp	RollRpm	DataCurve #			
aj1.dat	77.00	300.00	3	5	6	7
aj2.dat	77.00	600.00	10	12	13	14
aj3.dat	77.00	1200.00	17	19	20	21
aj4.dat	100.00	300.00	24	26	27	28
aj5.dat	100.00	600.00	31	33	34	35
aj6.dat	100.00	1200.00	38	40	41	42

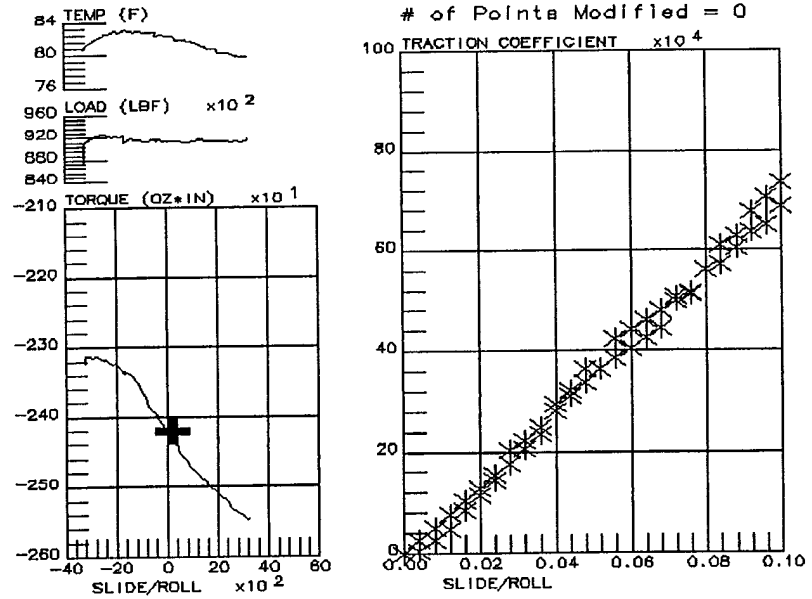
AJ 84-473 95% PAO + 5% Bardahl #1
77F 5LBF 300RPM 1 FILE: 84-473aj



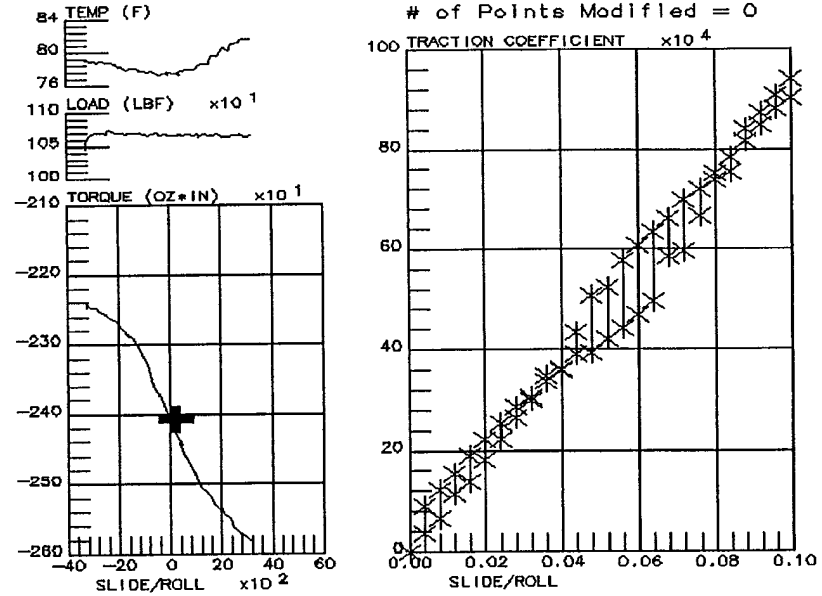
AJ 84-473 95% PAO + 5% Bardahl #2
77F 7LBF 300RPM 2 FILE: 84-473aj



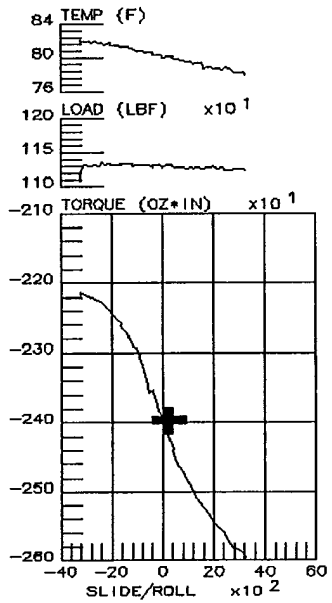
AJ 84-473 95% PAO + 5% Bardahl #3
77F 9LBF 300RPM 3 FILE: 84-473aj

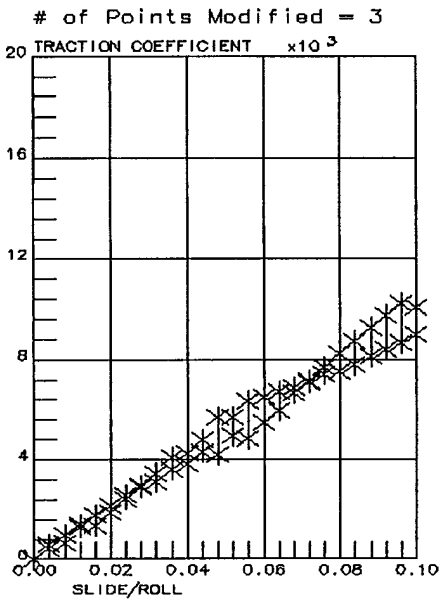


AJ 84-473 95% PAO + 5% Bardahl #4
77F 11LBF 300RPM 4 FILE: 84-473aj

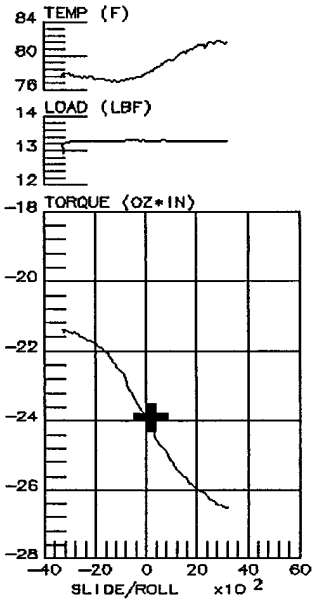


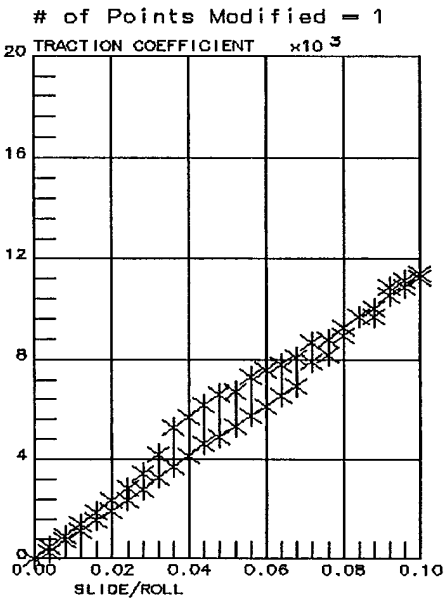
AJ 84-473 95% PAO + 5% Bardahl #5
77F 11LBF 300RPM 5 FILE: 84-473aj



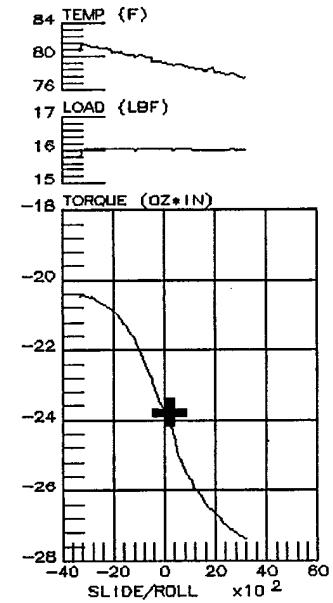


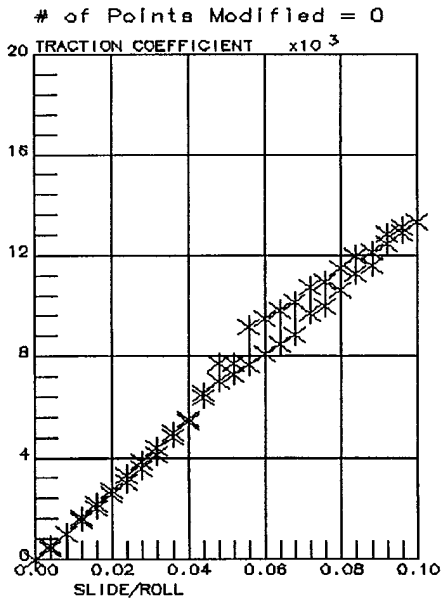
AJ 84-473 95% PAO + 5% Bardahl #6
77F 13LBF 300RPM 6 FILE: 84-473aj



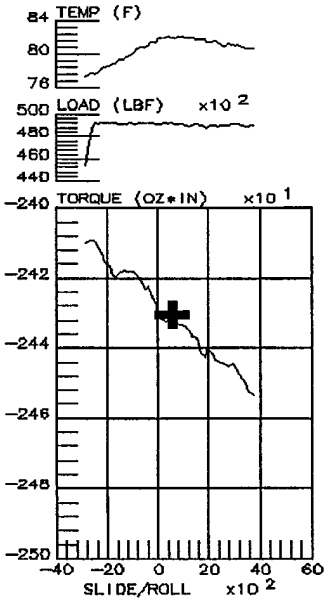


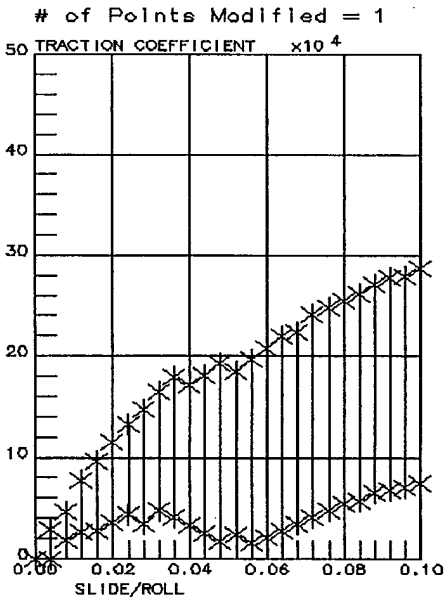
AJ 84-473 95% PAO + 5% Bardahl #7
77F 16LBF 300RPM 7 FILE: 84-473aj



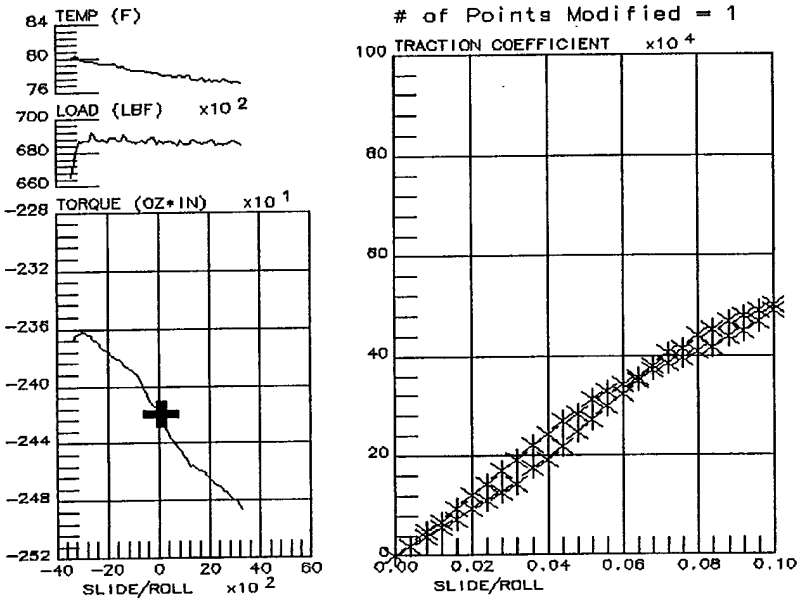


AJ 84-473 95% PAO + 5% Bardahl #8
77F 5LBF 600RPM 8 FILE: 84-473aj

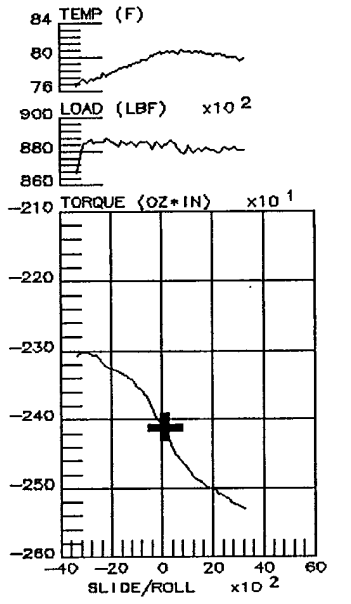


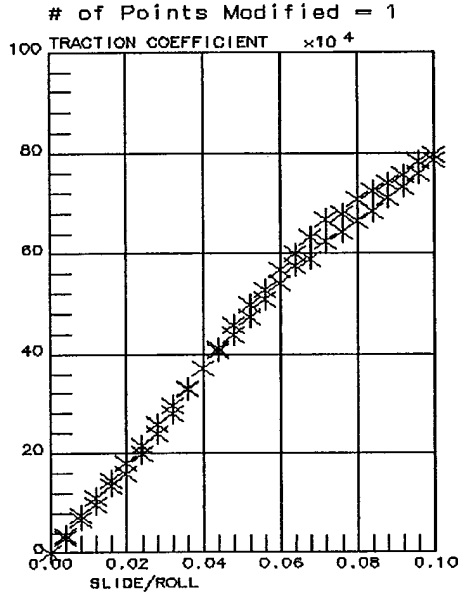


AJ 84-473 95% PAO + 5% Bardahl #9
77F 7LBF 600RPM 9 FILE: 84-473aj

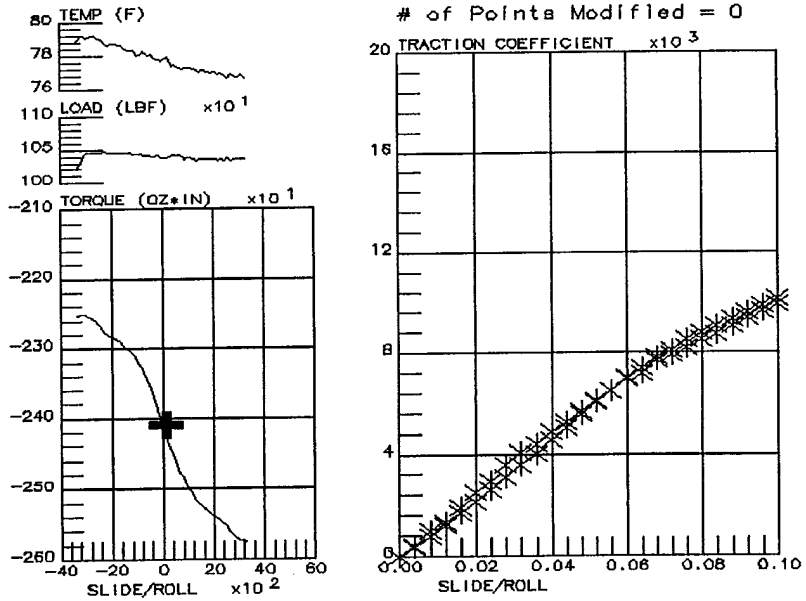


AJ 84-473 95% PAO + 5% Bardahl #10
77F 9LBF 600RPM 10 FILE: 84-473aj

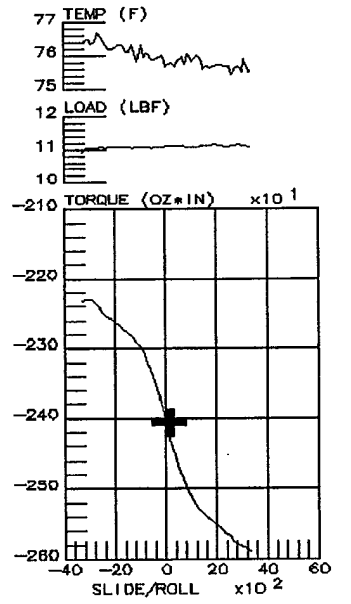


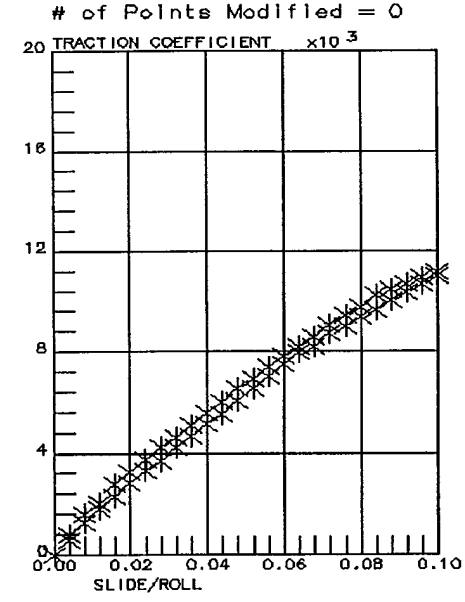


AJ 84-473 95% PAO + 5% Bardahl #11
77F 11LBF 600RPM 11 FILE: 84-473aj

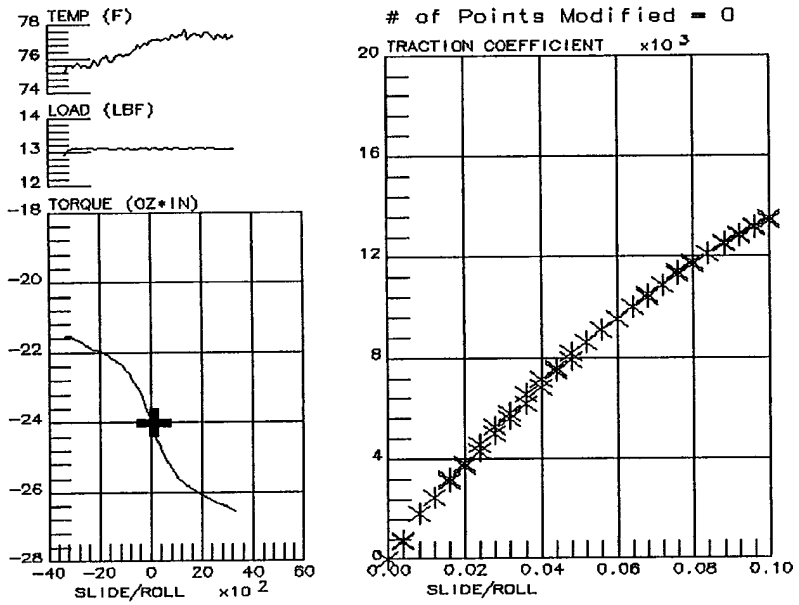


AJ 84-473 95% PAO + 5% Bardahl #12
77F 11LBF 600RPM 12 FILE: 84-473aj

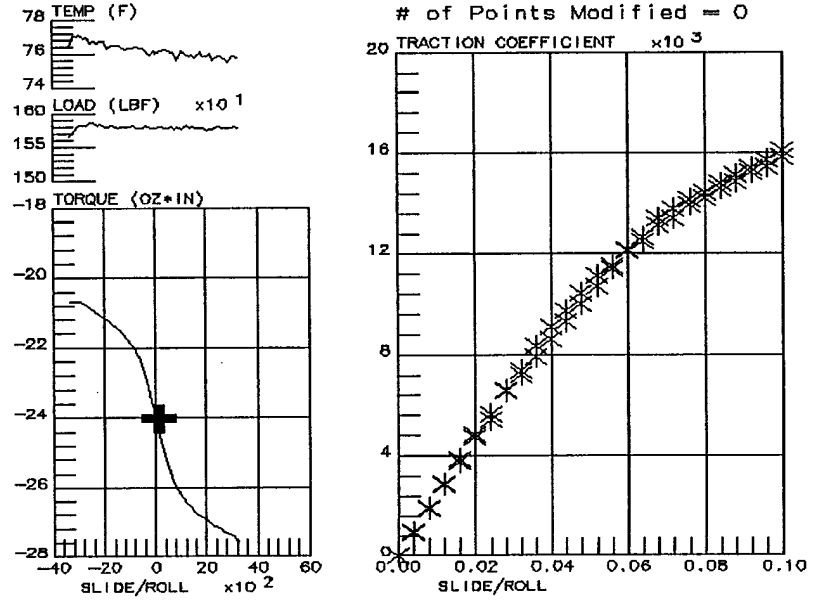




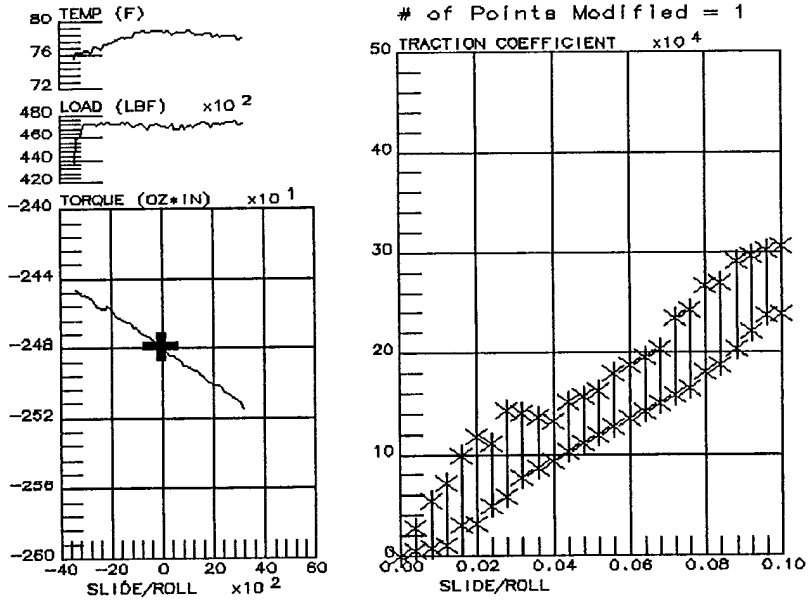
AJ 84-473 95% PAO + 5% Bardahl #13
77F 13LBF 600RPM 13 FILE: 84-473aj



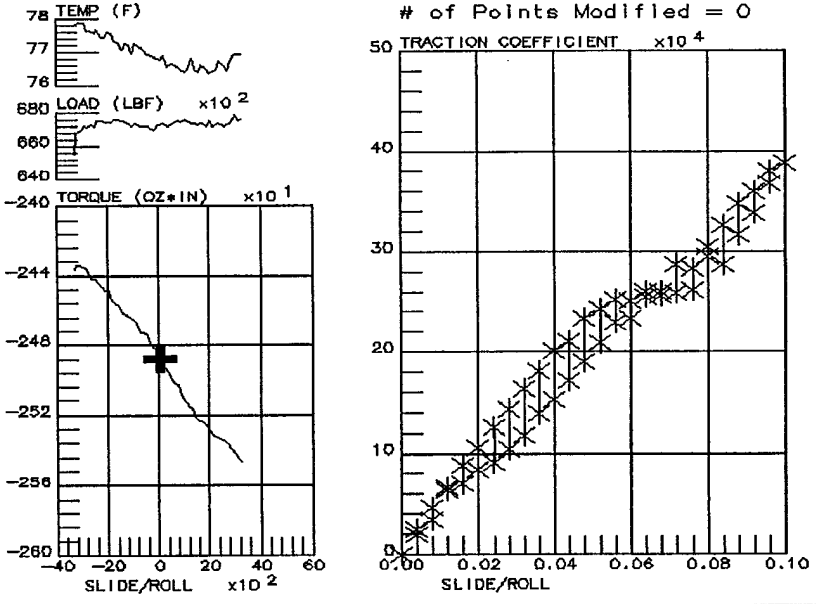
AJ 84-473 95% PAO + 5% Bardahl #14
77F 16LBF 600RPM 14 FILE: 84-473aj



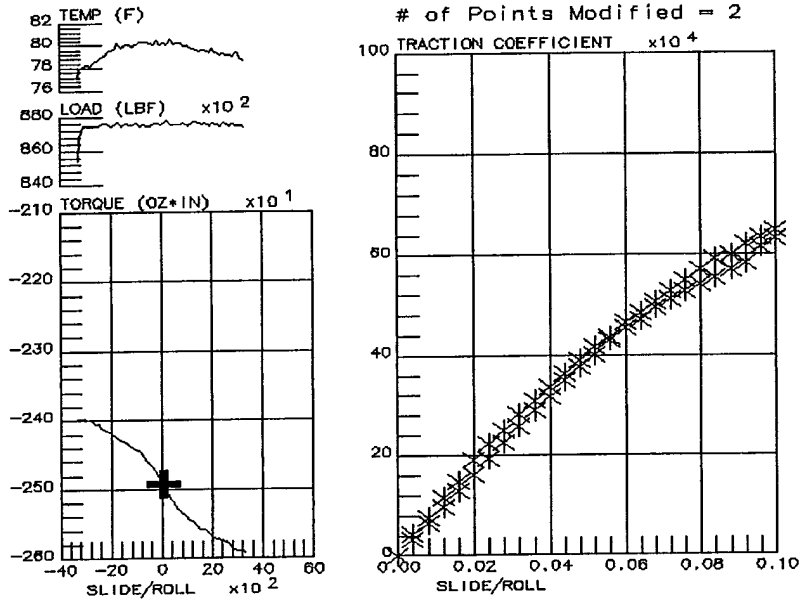
AJ 84-473 95% PAO + 5% Bardahl #15
77F 5LBF 1200RPM 15 FILE: 84-473aj



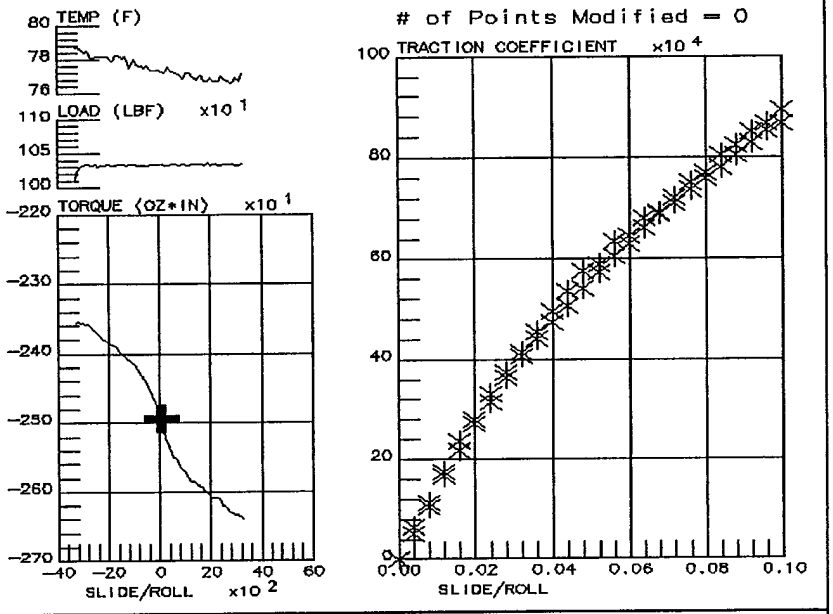
AJ 84-473 95% PAO + 5% Bardahl #16
77F 7LBF 1200RPM 16 FILE: 84-473aj



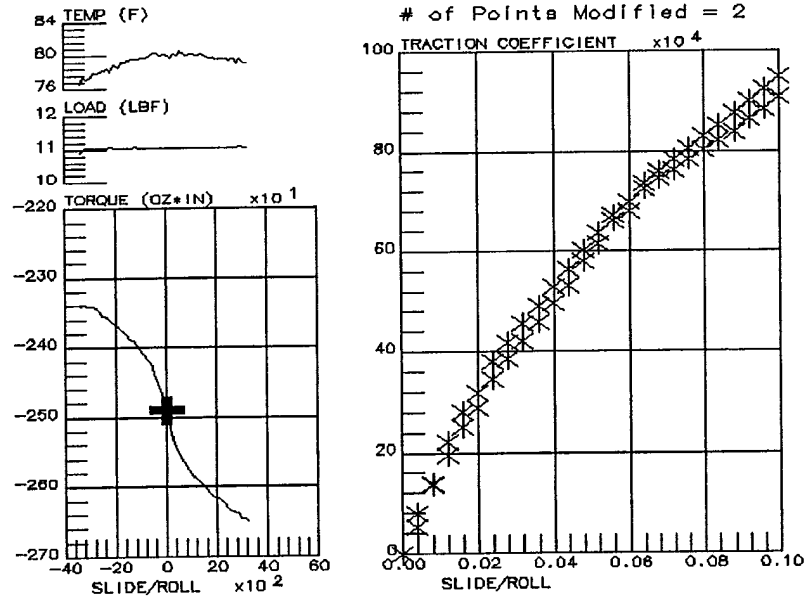
AJ 84-473 95% PAO + 5% Bardahl #17
77F 9LBF 1200RPM 17 FILE: 84-473aj



AJ 84-473 95% PAO + 5% Bardahl #18
77F 11LBF 1200RPM 18 FILE: 84-473aj



AJ 84-473 95% PAO + 5% Bardahl #19
77F 11LBF 1200RPM 19 FILE: 84-473aj



AJ 84-473 95% PAO + 5% Bardahl #20
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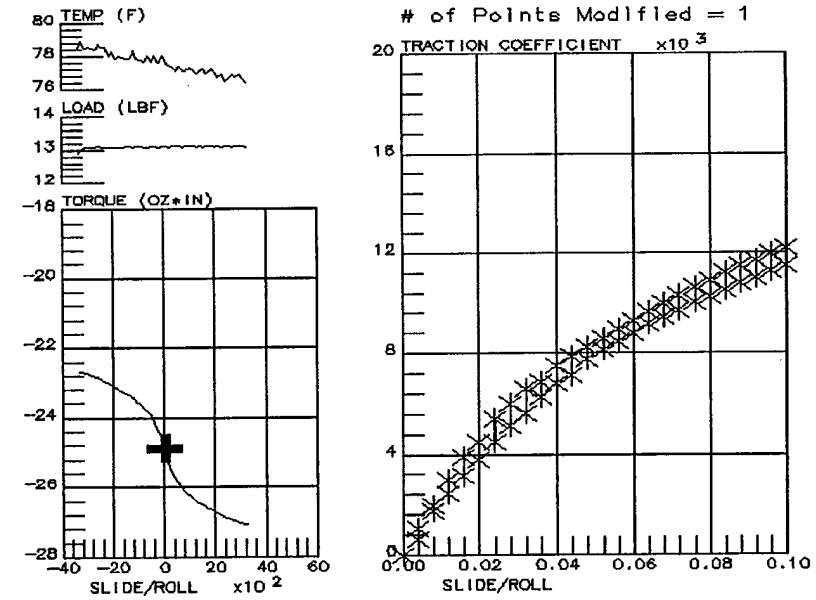
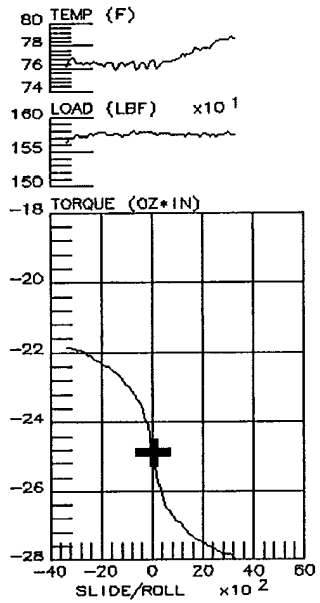
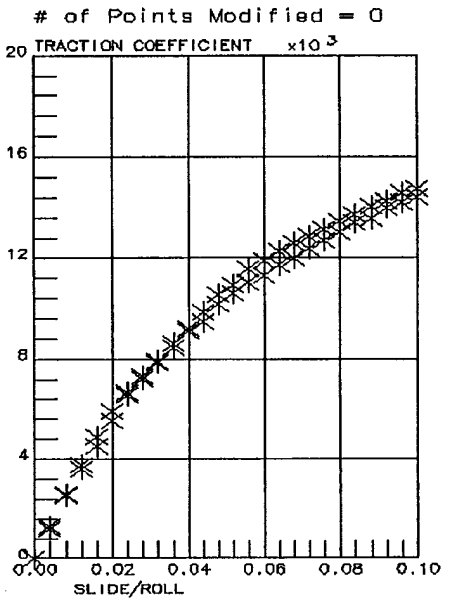
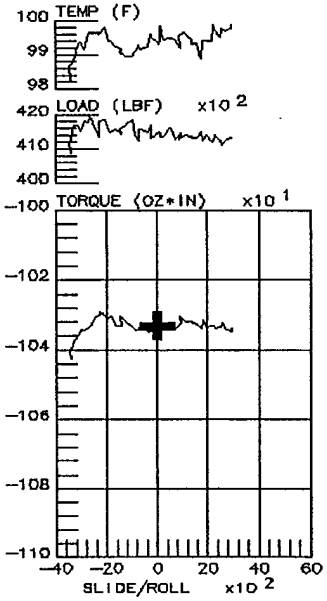


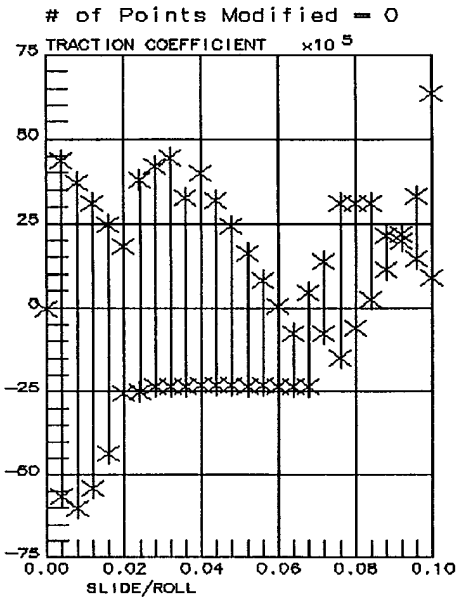
AJ 84-473 95% PAO + 5% Bardahl #21
77F 16LBF 1200RPM 21 FILE: 84-473aj



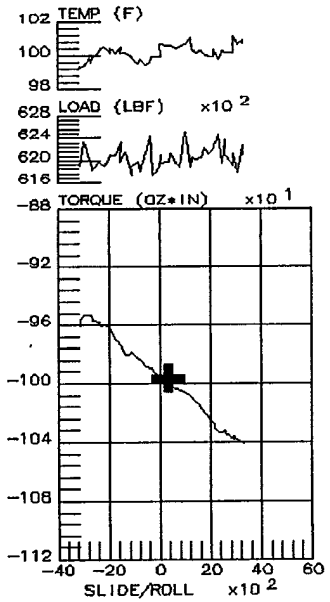


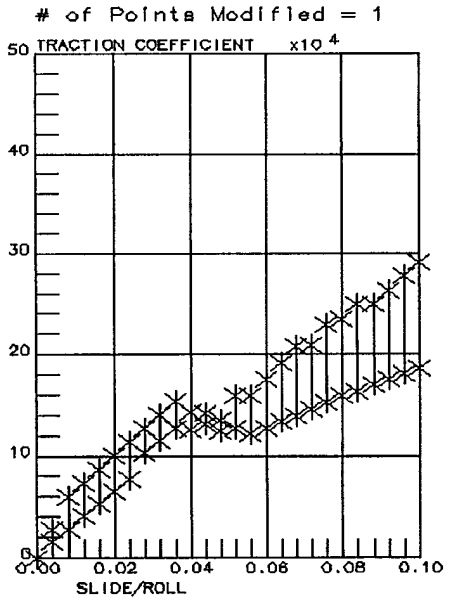
AJ 84-473 95% PAO + 5% Bardahl #22
100F 5LBF 300RPM 22 FILE: 84-473aj



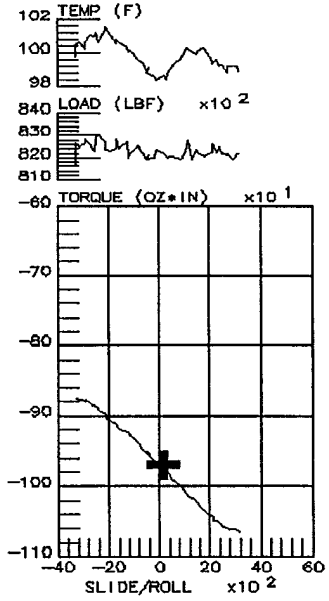


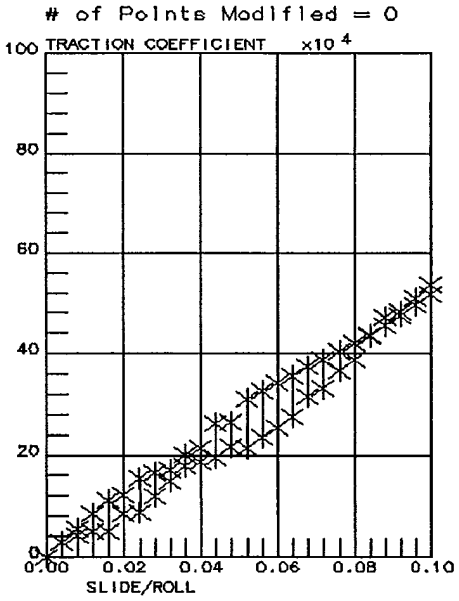
AJ 84-473 95% PAO + 5% Bardahl #23
100F 7LBF 300RPM 23 FILE: 84-473aj



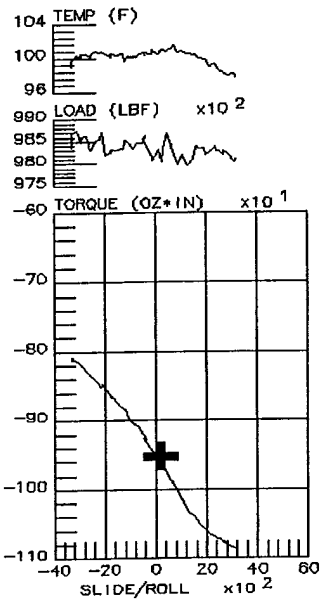


AJ 84-473 95% PAO + 5% Bardahl #24
100F 9LBF 300RPM 24 FILE: 84-473aj





AJ 84-473 95% PAO + 5% Bardahl #25
100F 11LBF 300RPM 25 FILE: 84-473aj



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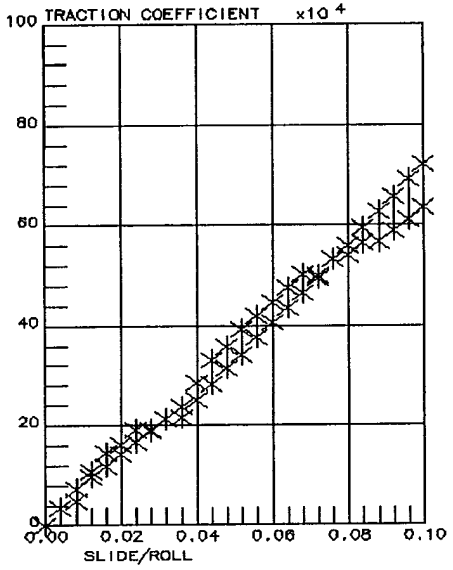
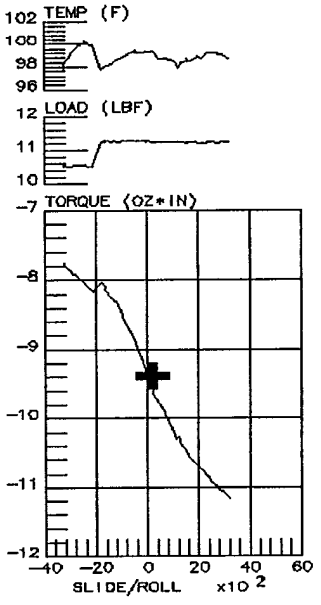


AJ 84-473 95% PAO + 5% Bardahl #26
100F 11LBF 300RPM 26 FILE: 84-473aj



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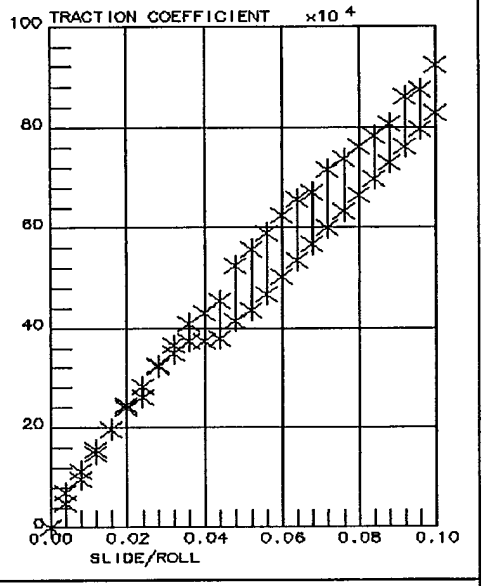
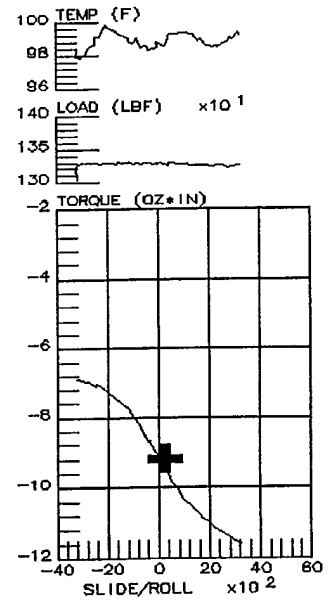


AJ 84-473 95% PAO + 5% Bardahl #27
100F 13LBF 300RPM 27 FILE: 84-473aj



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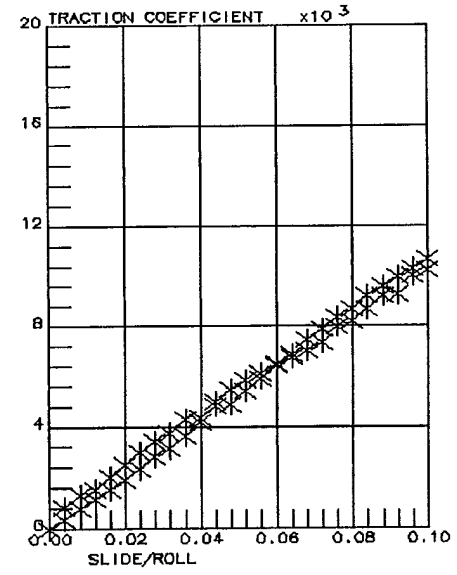
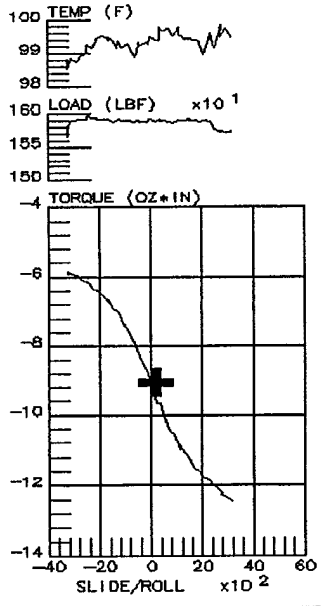


AJ 84-473 95% PAO + 5% Bardahl #28
100F 16LBF 300RPM 28 FILE: 84-473aj



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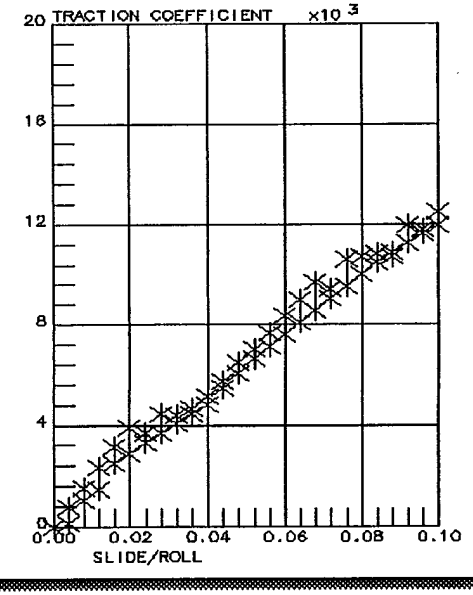
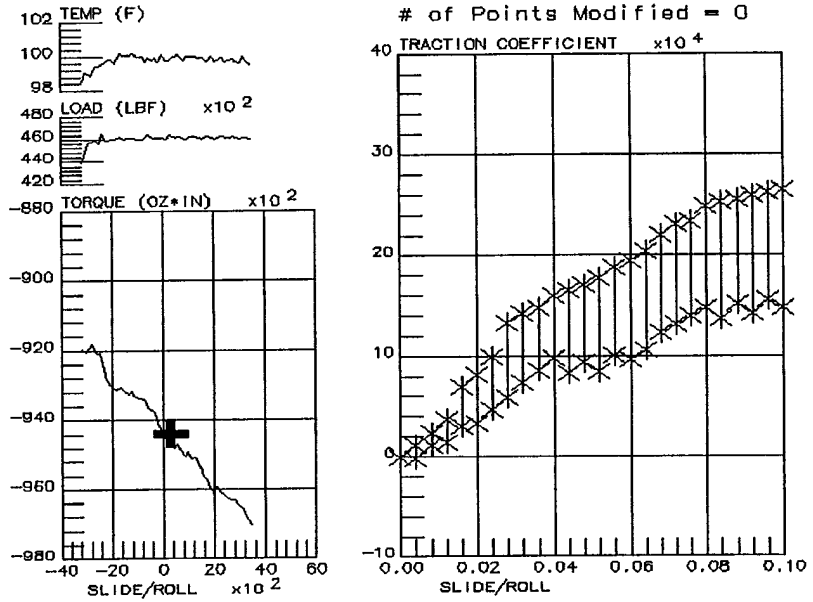
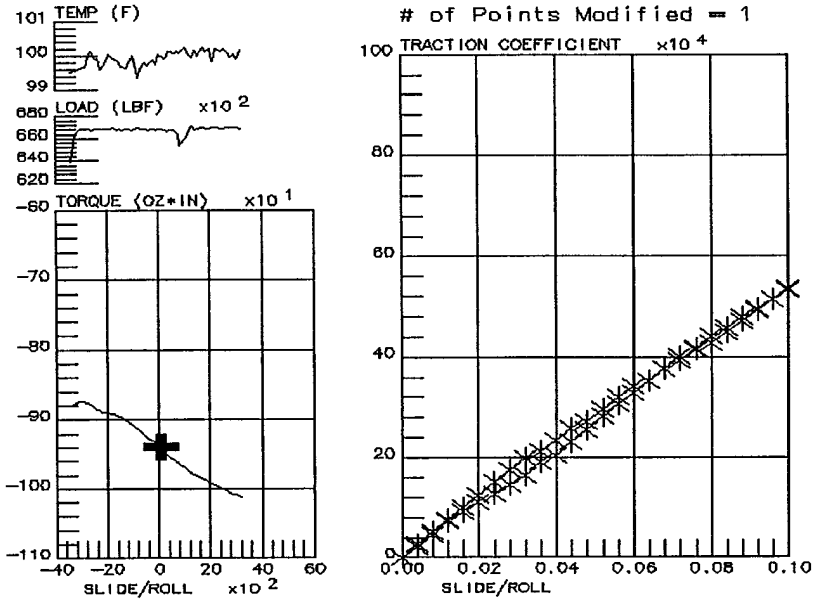


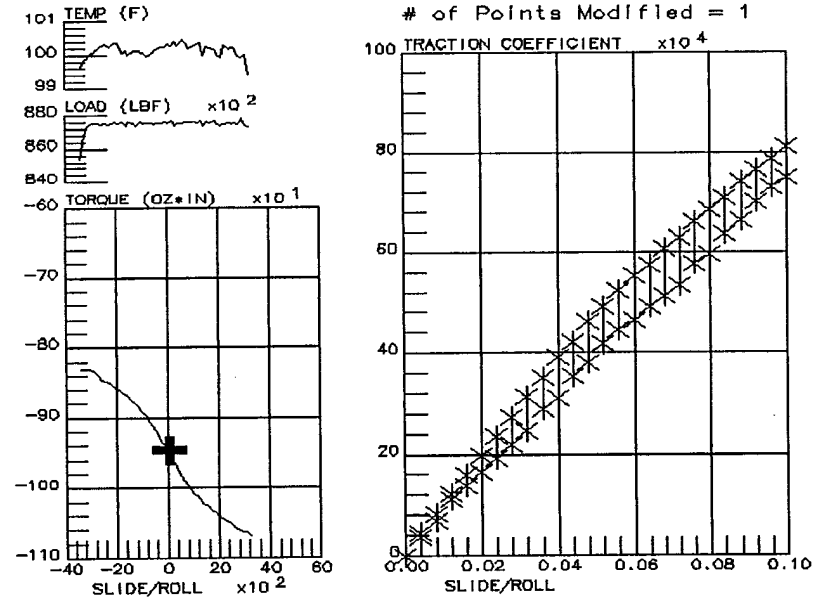
AJ 84-473 95% PAO + 5% Bardahl #29
100F 5LBF 600RPM 29 FILE: 84-473aj



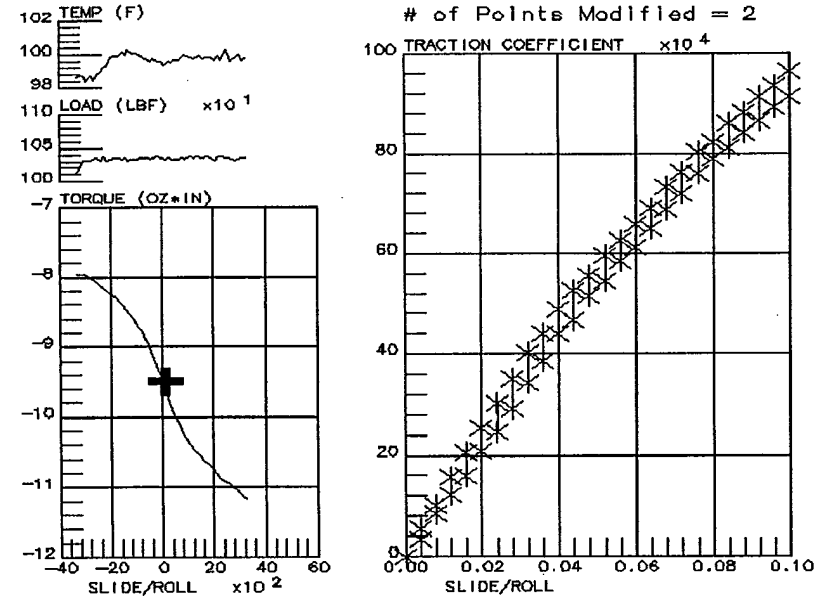
AJ 84-473 95% PAO + 5% Bardahl #30
100F 7LBF 600RPM 30 FILE: 84-473aj



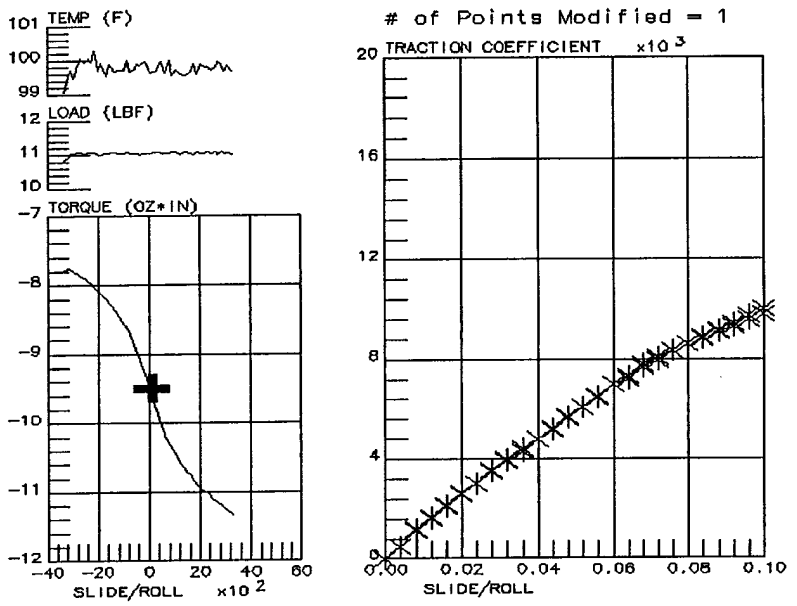
AJ 84-473 95% PAO + 5% Bardahl #31
100F 9LBF 600RPM 31 FILE: 84-473aj



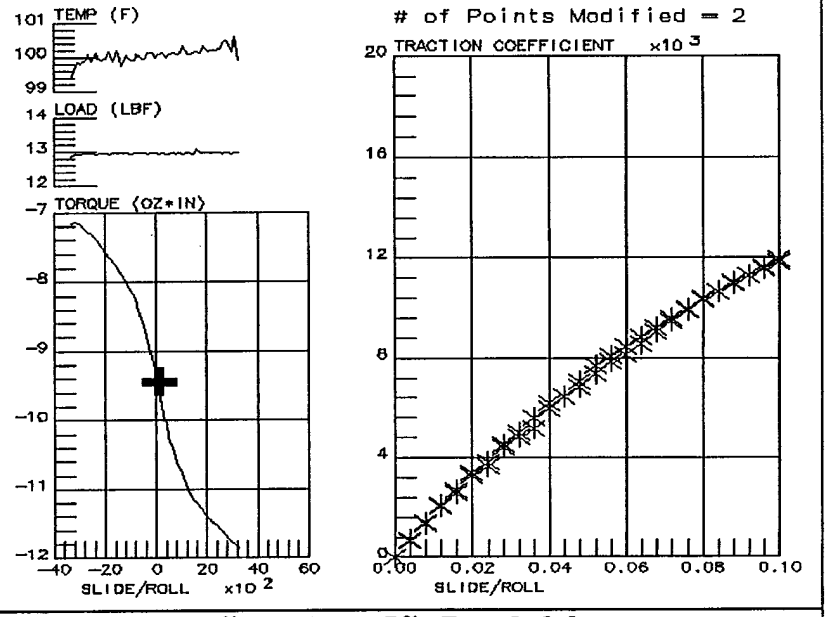
AJ 84-473 95% PAO + 5% Bardahl #32
100F 11LBF 600RPM 32 FILE: 84-473aj



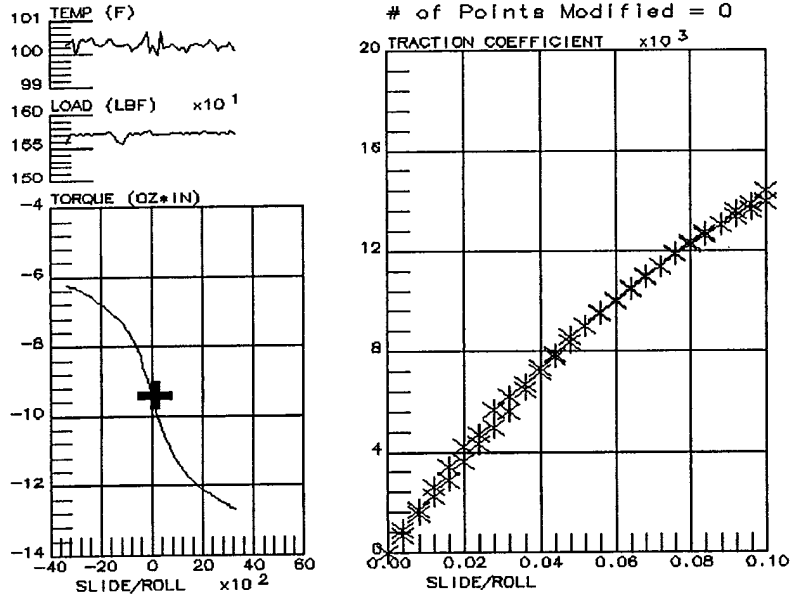
AJ 84-473 95% PAO + 5% Bardahl #33
100F 11LBF 600RPM 33 FILE: 84-473aj



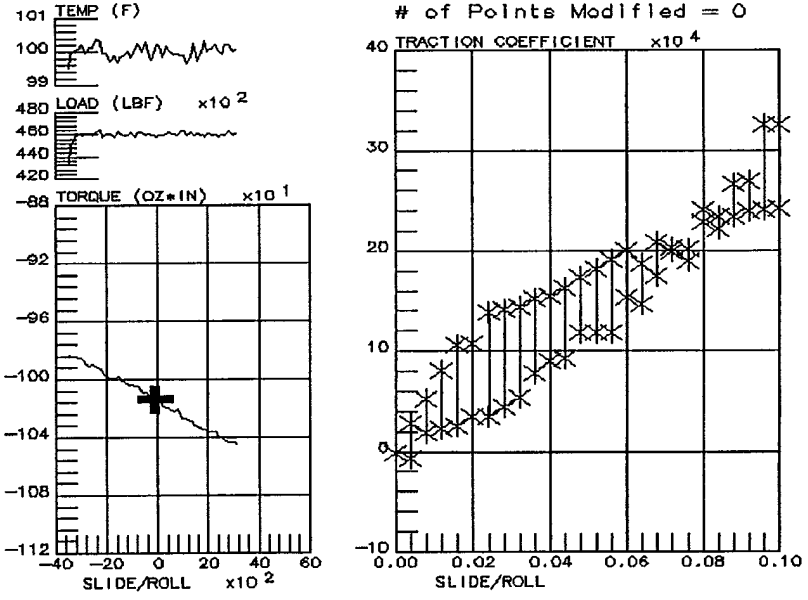
AJ 84-473 95% PAO + 5% Bardahl #34
100F 13LBF 600RPM 34 FILE: 84-473aj



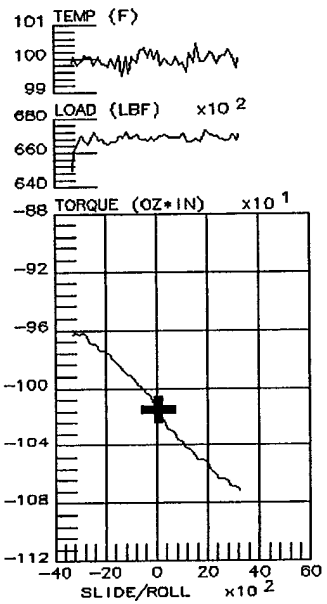
AJ 84-473 95% PAO + 5% Bardahl #35
100F 16LBF 600RPM 35 FILE: 84-473aj

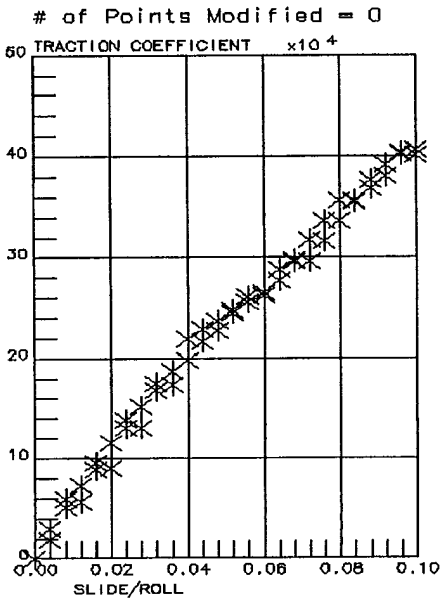


AJ 84-473 95% PAO + 5% Bardahl #36
100F 5LBF 1200RPM 36 FILE: 84-473aj

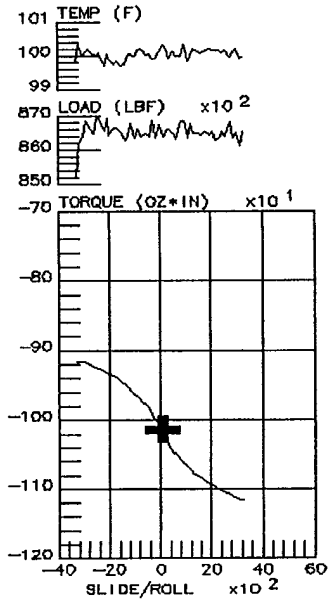


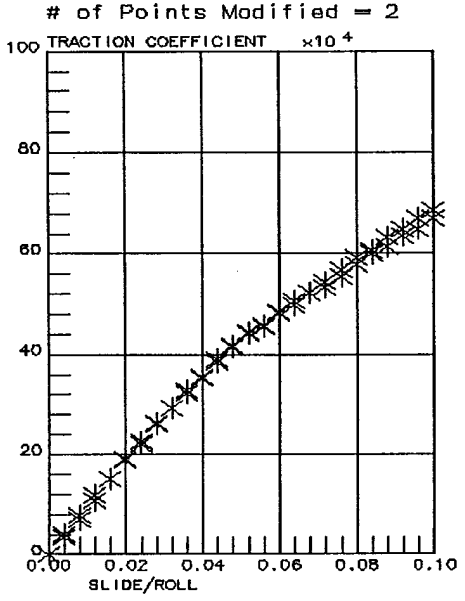
AJ 84-473 95% PAO + 5% Bardahl #37
100F 7LBF 1200RPM 37 FILE: 84-473aj



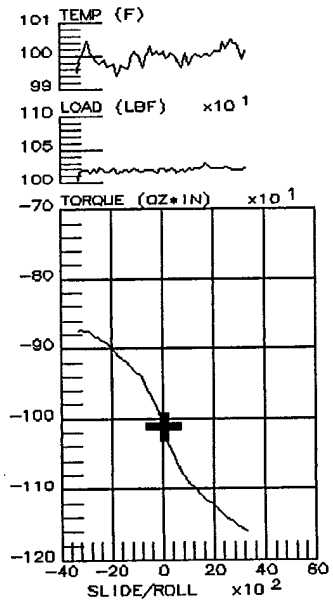


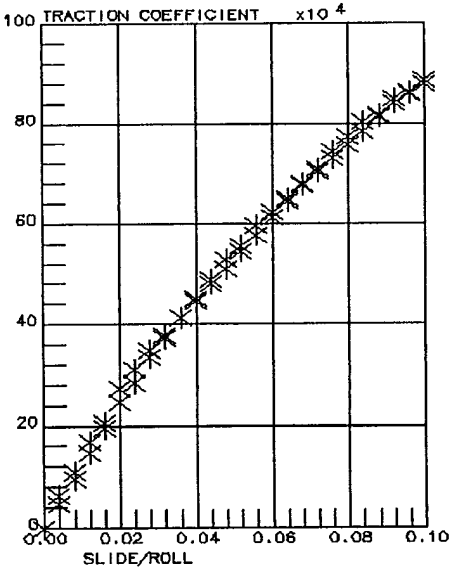
AJ 84-473 95% PAO + 5% Bardahl #38
100F 9LBF 1200RPM 38 FILE: 84-473aj



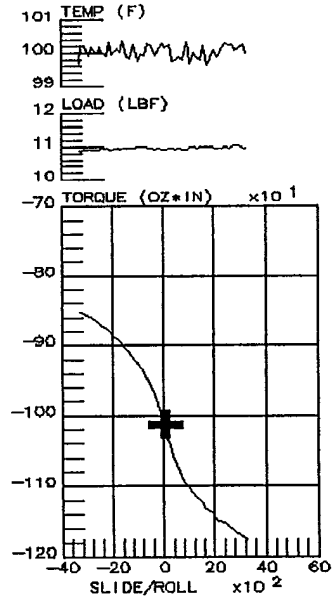


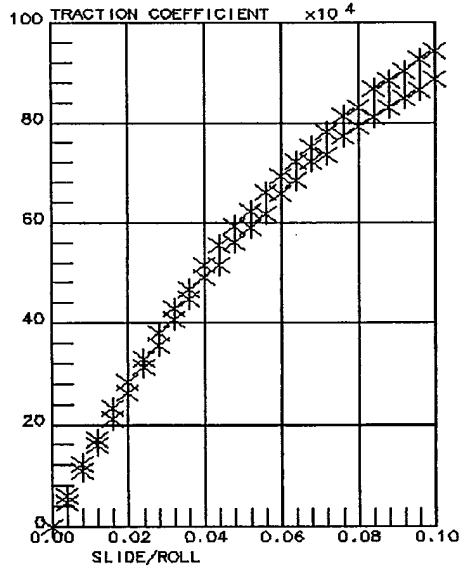
AJ 84-473 95% PAO + 5% Bardahl #39
100F 11LBF 1200RPM 39 FILE: 84-473aj



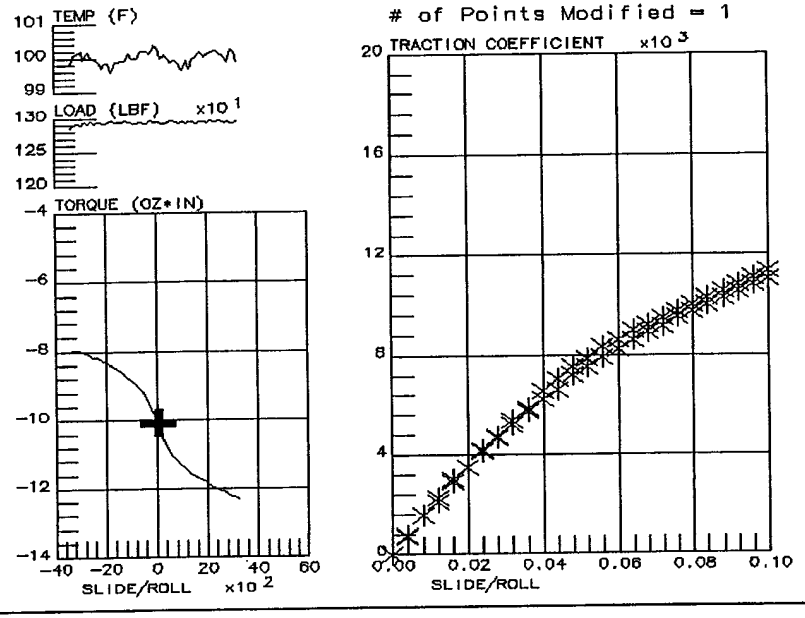


AJ 84-473 95% PAO + 5% Bardahl #40
100F 11LBF 1200RPM 40 FILE: 84-473aj



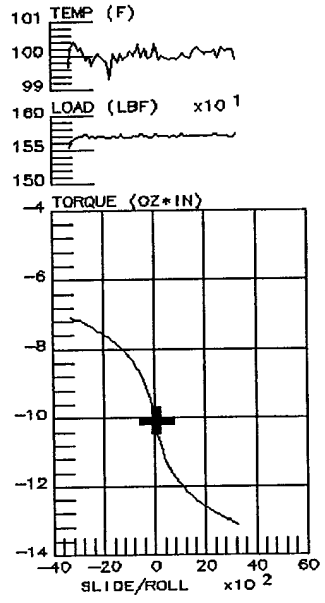


AJ 84-473 95% PAO + 5% Bardahl #41
100F 13LBF 1200RPM 41 FILE: 84-473aj

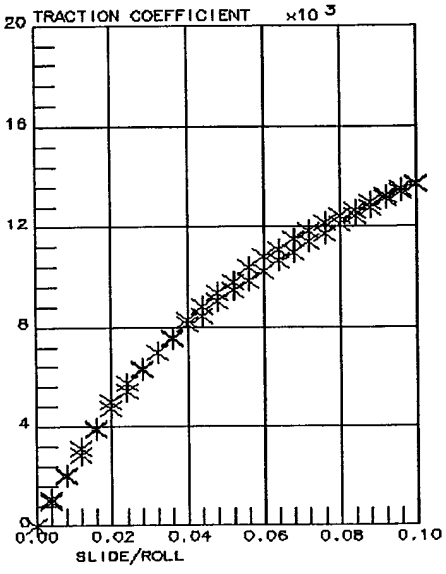


# of Points Modified = 1

AJ 84-473 95% PAO + 5% Bardahl #42
100F 16LBF 1200RPM 42 FILE: 84-473aj



# of Points Modified = 0



9. Traction Data Set H: 81-288 Apiezon C + 5% Bardhal (VacKote)

Data set name: BO 81-288 ApiezonC+5%Bardhal(VacKote)
Rolling radii [Disks 1 & 2] (in): 0.75 0.75
Crown radii [Disks 1 & 2] (in): 8.00 8.00

Number of data sets found = 274

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
1	80.00	2.77	130.00	210.00	170.00	40	0.71	1.49	1.00	1.00	1.00	1.75E-04	81-288bo80 #1
2	80.00	5.61	130.00	210.00	170.00	40	0.71	1.49	1.00	1.00	1.00	2.14E-04	81-288bo80 #2
3	80.00	19.10	130.00	210.00	170.00	40	0.71	1.49	1.00	1.00	1.00	1.13E-03	81-288bo80 #3
4	80.00	65.25	130.00	210.00	170.00	40	0.71	1.49	1.00	1.00	1.00	2.66E-03	81-288bo80 #4
5	80.00	154.00	130.00	210.00	170.00	40	0.71	1.49	1.00	1.00	1.00	8.17E-04	81-288bo80 #5
6	80.00	2.77	178.00	368.00	273.00	40	0.71	1.49	1.00	1.00	1.00	4.07E-04	81-288bo80 #6
7	80.00	5.61	178.00	368.00	273.00	40	0.71	1.49	1.00	1.00	1.00	2.22E-05	81-288bo80 #7
8	80.00	19.10	178.00	368.00	273.00	40	0.71	1.49	1.00	1.00	1.00	2.45E-04	81-288bo80 #8
9	80.00	65.25	178.00	368.00	273.00	40	0.71	1.49	1.00	1.00	1.00	3.96E-03	81-288bo80 #9
10	80.00	154.00	178.00	368.00	273.00	40	0.71	1.49	1.00	1.00	1.00	6.19E-03	81-288bo80 #10
11	80.00	2.77	1173.00	1373.00	1273.00	40	0.71	1.49	1.00	1.00	1.00	1.17E-04	81-288bo80 #11
12	80.00	5.61	1173.00	1373.00	1273.00	40	0.71	1.49	1.00	1.00	1.00	1.58E-04	81-288bo80 #12
13	80.00	19.10	1173.00	1373.00	1273.00	40	0.71	1.49	1.00	1.00	1.00	8.56E-05	81-288bo80 #13
14	80.00	65.25	1173.00	1373.00	1273.00	40	0.71	1.49	1.00	1.00	1.00	5.19E-04	81-288bo80 #14
15	80.00	154.00	1173.00	1373.00	1273.00	40	0.71	1.49	1.00	1.00	1.00	1.31E-04	81-288bo80 #15
16	80.00	2.77	2446.00	2646.00	2546.00	40	0.71	1.49	1.00	1.00	1.00	1.08E-04	81-288bo80 #16
17	80.00	5.61	2446.00	2646.00	2546.00	40	0.71	1.49	1.00	1.00	1.00	3.31E-05	81-288bo80 #17
18	80.00	19.10	2446.00	2646.00	2546.00	40	0.71	1.49	1.00	1.00	1.00	7.16E-05	81-288bo80 #18
19	80.00	65.25	2446.00	2646.00	2546.00	40	0.71	1.49	1.00	1.00	1.00	1.05E-04	81-288bo80 #19
20	80.00	154.00	2446.00	2646.00	2546.00	40	0.71	1.49	1.00	1.00	1.00	1.99E-04	81-288bo80 #20
21	80.00	19.10	4838.00	5348.00	5093.00	100	0.71	1.49	1.00	1.00	1.00	2.04E-04	81-288bo80 #1
22	80.00	19.10	5348.00	4838.00	5093.00	100	0.71	1.49	1.00	1.00	1.00	2.60E-05	81-288bo80 #2
23	80.00	19.10	4838.00	5348.00	5093.00	100	0.71	1.49	1.00	1.00	1.00	4.43E-04	81-288bo80 #1
24	80.00	65.25	4838.00	5348.00	5093.00	100	0.71	1.49	1.00	1.00	1.00	4.78E-05	81-288bo80 #2
25	80.00	154.00	4838.00	5348.00	5093.00	100	0.71	1.49	1.00	1.00	1.00	7.75E-04	81-288bo80 #3
26	80.00	19.10	7257.00	8021.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	2.29E-04	81-288bo80 #4
27	80.00	65.25	7257.00	8021.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	2.14E-04	81-288bo80 #5
28	80.00	154.00	7257.00	8021.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	5.38E-04	81-288bo80 #6
29	80.00	19.10	9677.00	10695.00	10186.00	100	0.71	1.49	1.00	1.00	1.00	5.30E-05	81-288bo80 #7
30	80.00	65.25	9677.00	10695.00	10186.00	100	0.71	1.49	1.00	1.00	1.00	1.00E-04	81-288bo80 #8
31	80.00	154.00	9677.00	10695.00	10186.00	100	0.71	1.49	1.00	1.00	1.00	5.79E-04	81-288bo80 #9
32	80.00	19.10	302.00	334.00	318.00	100	0.71	1.49	1.00	1.00	1.00	6.97E-04	81-288bo80 #1
33	80.00	65.25	302.00	334.00	318.00	100	0.71	1.49	1.00	1.00	1.00	1.82E-01	81-288bo80 #2
34	80.00	154.00	302.00	334.00	318.00	100	0.71	1.49	1.00	1.00	1.00	1.99E-01	81-288bo80 #3
35	80.00	19.10	1209.00	1337.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	1.14E-03	81-288bo80 #4
36	80.00	65.25	1209.00	1337.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	1.23E-03	81-288bo80 #5
37	80.00	154.00	1209.00	1337.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	1.81E-02	81-288bo80 #6
38	80.00	19.10	2419.00	2673.00	2546.00	100	0.71	1.49	1.00	1.00	1.00	4.61E-05	81-288bo80 #7
39	80.00	65.25	2419.00	2673.00	2546.00	100	0.71	1.49	1.00	1.00	1.00	4.26E-04	81-288bo80 #8
40	80.00	154.00	2419.00	2673.00	2546.00	100	0.71	1.49	1.00	1.00	1.00	8.89E-04	81-288bo80 #9
41	80.00	19.10	4838.00	5348.00	5093.00	100	0.71	1.49	1.00	1.00	1.00	2.94E-05	81-288bo80 #10
42	80.00	65.25	4838.00	5348.00	5093.00	100	0.71	1.49	1.00	1.00	1.00	1.24E-04	81-288bo80 #11
43	80.00	154.00	4838.00	5348.00	5093.00	100	0.71	1.49	1.00	1.00	1.00	1.09E-03	81-288bo80 #12
44	80.00	19.10	7257.00	8021.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	4.48E-04	81-288bo80 #13
45	80.00	65.25	7257.00	8021.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	5.44E-04	81-288bo80 #14
46	80.00	154.00	7257.00	8021.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	7.38E-04	81-288bo80 #15
47	80.00	19.10	9677.00	10695.00	10186.00	100	0.71	1.49	1.00	1.00	1.00	6.37E-04	81-288bo80 #16
48	80.00	65.25	9677.00	10695.00	10186.00	100	0.71	1.49	1.00	1.00	1.00	9.95E-05	81-288bo80 #17
49	80.00	154.00	9677.00	10695.00	10186.00	100	0.71	1.49	1.00	1.00	1.00	9.56E-04	81-288bo80 #18
50	80.00	19.10	218.00	418.00	318.00	50	0.71	1.49	1.00	1.00	1.00	2.84E-03	81-288bo80 #1

Data set: BO 81-288 ApiezonC+5%Bardhal(VacKote) ....continued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
51	80.00	19.10	1173.00	1373.00	1273.00	50	0.71	1.49	1.00	1.00	1.00	2.38E-04	81-288bo80 #2
52	80.00	19.10	2419.00	2673.00	2546.00	50	0.71	1.49	1.00	1.00	1.00	4.79E-05	81-288bo80 #3
53	80.00	19.10	4838.00	5348.00	5093.00	50	0.71	1.49	1.00	1.00	1.00	4.88E-04	81-288bo80 #4
54	80.00	19.10	7257.00	8021.00	7639.00	50	0.71	1.49	1.00	1.00	1.00	2.33E-05	81-288bo80 #5
55	80.00	19.10	9677.00	10695.00	10186.00	50	0.71	1.49	1.00	1.00	1.00	2.00E-04	81-288bo80 #6
56	80.00	19.10	218.00	418.00	318.00	50	0.71	1.49	1.00	1.00	1.00	5.20E-04	81-288bo80 #1
57	80.00	19.10	1173.00	1373.00	1273.00	50	0.71	1.49	1.00	1.00	1.00	4.03E-04	81-288bo80 #2
58	80.00	19.10	2419.00	2673.00	2546.00	50	0.71	1.49	1.00	1.00	1.00	1.45E-04	81-288bo80 #3
59	80.00	19.10	4838.00	5348.00	5093.00	50	0.71	1.49	1.00	1.00	1.00	9.55E-06	81-288bo80 #4
60	80.00	19.10	218.00	418.00	318.00	50	0.71	1.49	1.00	1.00	1.00	3.03E-03	81-288bo80 #1
61	80.00	19.10	1173.00	1373.00	1273.00	50	0.71	1.49	1.00	1.00	1.00	1.33E-04	81-288bo80 #2
62	80.00	19.10	2419.00	2673.00	2546.00	50	0.71	1.49	1.00	1.00	1.00	1.93E-05	81-288bo80 #3
63	80.00	19.10	4838.00	5348.00	5093.00	50	0.71	1.49	1.00	1.00	1.00	9.77E-06	81-288bo80 #4
64	80.00	19.10	7257.00	8021.00	7639.00	50	0.71	1.49	1.00	1.00	1.00	3.06E-05	81-288bo80 #5
65	80.00	19.10	9677.00	10695.00	10186.00	50	0.71	1.49	1.00	1.00	1.00	1.01E-04	81-288bo80 #6
66	80.00	19.10	218.00	418.00	318.00	50	0.71	1.49	1.00	1.00	1.00	9.24E-04	81-288bo80 #1
67	80.00	19.10	1173.00	1373.00	1273.00	50	0.71	1.49	1.00	1.00	1.00	3.39E-04	81-288bo80 #2
68	80.00	19.10	4838.00	5348.00	5093.00	50	0.71	1.49	1.00	1.00	1.00	1.58E-04	81-288bo80 #4
69	80.00	19.10	7257.00	8021.00	7639.00	50	0.71	1.49	1.00	1.00	1.00	1.39E-04	81-288bo80 #5
70	80.00	19.10	9677.00	10695.00	10186.00	30	0.71	1.49	1.00	1.00	1.00	2.63E-03	81-288bo80 #6
71	80.00	19.10	218.00	418.00	318.00	50	0.71	1.49	1.00	1.00	1.00	9.01E-04	81-288bo80 #1
72	80.00	19.10	1173.00	1373.00	1273.00	50	0.71	1.49	1.00	1.00	1.00	1.34E-04	81-288bo80 #2
73	80.00	19.10	2419.00	2673.00	2546.00	50	0.71	1.49	1.00	1.00	1.00	1.25E-05	81-288bo80 #3
74	80.00	19.10	418.00	218.00	318.00	50	0.71	1.49	1.00	1.00	1.00	4.42E-04	81-288bo80 #1
75	80.00	65.25	418.00	218.00	318.00	50	0.71	1.49	1.00	1.00	1.00	3.44E-03	81-288bo80 #2
76	80.00	154.00	418.00	218.00	318.00	50	0.71	1.49	1.00	1.00	1.00	6.14E-02	81-288bo80 #3
77	80.00	19.10	1373.00	1173.00	1273.00	50	0.71	1.49	1.00	1.00	1.00	1.87E-04	81-288bo80 #4
78	80.00	65.25	1373.00	1173.00	1273.00	50	0.71	1.49	1.00	1.00	1.00	6.65E-04	81-288bo80 #5
79	80.00	154.00	1373.00	1173.00	1273.00	50	0.71	1.49	1.00	1.00	1.00	1.50E-01	81-288bo80 #6
80	80.00	19.10	2673.00	2419.00	2546.00	50	0.71	1.49	1.00	1.00	1.00	9.00E-05	81-288bo80 #7
81	80.00	65.25	2673.00	2419.00	2546.00	50	0.71	1.49	1.00	1.00	1.00	6.86E-04	81-288bo80 #8
82	80.00	154.00	2673.00	2419.00	2546.00	50	0.71	1.49	1.00	1.00	1.00	3.43E-02	81-288bo80 #9
83	80.00	154.00	218.00	418.00	318.00	50	0.71	1.49	1.00	1.00	1.00	1.24E-02	81-288bo80 #1
84	80.00	154.00	1173.00	1373.00	1273.00	50	0.71	1.49	1.00	1.00	1.00	5.40E-04	81-288bo80 #2
85	80.00	154.00	2419.00	2673.00	2546.00	50	0.71	1.49	1.00	1.00	1.00	2.62E-04	81-288bo80 #3
86	80.00	154.00	4838.00	5348.00	5093.00	50	0.71	1.49	1.00	1.00	1.00	2.45E-04	81-288bo80 #4
87	80.00	154.00	7257.00	8021.00	7639.00	50	0.71	1.49	1.00	1.00	1.00	1.90E-04	81-288bo80 #5
88	80.00	154.00	9677.00	10695.00	10186.00	50	0.71	1.49	1.00	1.00	1.00	8.61E-05	81-288bo80 #6
89	80.00	19.10	418.00	218.00	318.00	100	0.71	1.49	1.00	1.00	1.00	1.35E-04	81-288bo80 #1
90	80.00	65.25	418.00	218.00	318.00	100	0.71	1.49	1.00	1.00	1.00	1.03E-03	81-288bo80 #2
91	80.00	19.10	1373.00	1173.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	1.50E-04	81-288bo80 #3
92	80.00	65.25	1373.00	1173.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	4.50E-04	81-288bo80 #4
93	80.00	19.10	2673.00	2419.00	2546.00	100	0.71	1.49	1.00	1.00	1.00	5.49E-05	81-288bo80 #5
94	80.00	65.25	2673.00	2419.00	2546.00	100	0.71	1.49	1.00	1.00	1.00	3.15E-04	81-288bo80 #6
95	80.00	19.10	5348.00	4838.00	5093.00	100	0.71	1.49	1.00	1.00	1.00	9.57E-04	81-288bo80 #7
96	80.00	65.25	5348.00	4838.00	5093.00	100	0.71	1.49	1.00	1.00	1.00	1.96E-04	81-288bo80 #8
97	80.00	19.10	8021.00	7257.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	8.66E-05	81-288bo80 #9
98	80.00	65.25	8021.00	7257.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	7.04E-05	81-288bo80 #10
99	80.00	19.10	10695.00	9677.00	10186.00	100	0.71	1.49	1.00	1.00	1.00	6.57E-05	81-288bo80 #11
100	80.00	65.25	10695.00	9677.00	10186.00	100	0.71	1.49	1.00	1.00	1.00	2.60E-04	81-288bo80 #12
101	100.00	19.10	302.00	334.00	318.00	100	0.71	1.49	1.00	1.00	1.00	1.25E-02	81-288bo100 #1
102	100.00	65.25	302.00	334.00	318.00	100	0.71	1.49	1.00	1.00	1.00	4.97E-02	81-288bo100 #2
103	100.00	154.00	302.00	334.00	318.00	100	0.71	1.49	1.00	1.00	1.00	1.75E-04	81-288bo100 #3
104	100.00	19.10	1209.00	1337.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	4.57E-04	81-288bo100 #4
105	100.00	65.25	1209.00	1337.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	2.32E-03	81-288bo100 #5
106	100.00	154.00	1209.00	1337.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	8.43E-04	81-288bo100 #6
107	100.00	19.10	2419.00	2673.00	2546.00	100	0.71	1.49	1.00	1.00	1.00	1.15E-04	81-288bo100 #7
108	100.00	65.25	2419.00	2673.00	2546.00	100	0.71	1.49	1.00	1.00	1.00	6.65E-04	81-288bo100 #8
109	100.00	154.00	2419.00	2673.00	2546.00	100	0.71	1.49	1.00	1.00	1.00	2.17E-03	81-288bo100 #9
110	100.00	19.10	4838.00	5348.00	5093.00	100	0.71	1.49	1.00	1.00	1.00	1.02E-03	81-288bo100 #10
111	100.00	65.25	4838.00	5348.00	5093.00	100	0.71	1.49	1.00	1.00	1.00	1.17E-04	81-288bo100 #11
112	100.00	154.00	4838.00	5348.00	5093.00	100	0.71	1.49	1.00	1.00	1.00	8.37E-04	81-288bo100 #12
113	100.00	19.10	7257.00	8021.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	1.60E-03	81-288bo100 #13
114	100.00	65.25	7257.00	8021.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	1.57E-04	81-288bo100 #14
115	100.00	154.00	7257.00	8021.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	6.79E-04	81-288bo100 #15
116	100.00	19.10	9677.00	10695.00	10186.00	100	0.71	1.49	1.00	1.00	1.00	1.81E-03	81-288bo100 #16
117	100.00	65.25	9677.00	10695.00	10186.00	100	0.71	1.49	1.00	1.00	1.00	8.05E-05	81-288bo100 #17
118	100.00	154.00	9677.00	10695.00	10186.00	100	0.71	1.49	1.00	1.00	1.00	3.13E-04	81-288bo100 #18
119	100.00	19.10	302.00	334.00	318.00	100	0.71	1.49	1.00	1.00	1.00	2.59E-03	81-288bo100 #1
120	100.00	65.25	302.00	334.00	318.00	100	0.71	1.49	1.00	1.00	1.00	9.70E-03	81-288bo100 #2

Data set: BO 81-288 ApiezonC+5%Bardhal(VacKote) ....continued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
121	100.00	154.00	302.00	334.00	318.00	100	0.71	1.49	1.00	1.00	1.00	1.18E-03	81-288bo100 #3
122	100.00	19.10	1209.00	1337.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	2.04E-04	81-288bo100 #4
123	100.00	65.25	1209.00	1337.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	5.10E-04	81-288bo100 #5
124	100.00	154.00	1209.00	1337.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	4.70E-04	81-288bo100 #6
125	100.00	19.10	2419.00	2673.00	2546.00	100	0.71	1.49	1.00	1.00	1.00	5.95E-04	81-288bo100 #7
126	100.00	65.25	2419.00	2673.00	2546.00	100	0.71	1.49	1.00	1.00	1.00	3.52E-04	81-288bo100 #8
127	100.00	154.00	2419.00	2673.00	2546.00	100	0.71	1.49	1.00	1.00	1.00	4.55E-04	81-288bo100 #9
128	100.00	19.10	218.00	418.00	318.00	100	0.71	1.49	1.00	1.00	1.00	1.05E-04	81-288bo100 #1
129	100.00	65.25	218.00	418.00	318.00	100	0.71	1.49	1.00	1.00	1.00	6.65E-03	81-288bo100 #2
130	100.00	154.00	218.00	418.00	318.00	100	0.71	1.49	1.00	1.00	1.00	6.13E-02	81-288bo100 #3
131	100.00	19.10	1173.00	1373.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	3.09E-04	81-288bo100 #4
132	100.00	65.25	1173.00	1373.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	1.60E-03	81-288bo100 #5
133	100.00	154.00	1173.00	1373.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	6.76E-04	81-288bo100 #6
134	100.00	19.10	2446.00	2646.00	2546.00	100	0.71	1.49	1.00	1.00	1.00	1.02E-04	81-288bo100 #7
135	100.00	65.25	2446.00	2646.00	2546.00	100	0.71	1.49	1.00	1.00	1.00	7.49E-04	81-288bo100 #8
136	100.00	154.00	2446.00	2646.00	2546.00	100	0.71	1.49	1.00	1.00	1.00	2.52E-04	81-288bo100 #9
137	100.00	19.10	4838.00	5348.00	5093.00	100	0.71	1.49	1.00	1.00	1.00	8.28E-04	81-288bo100 #1
138	100.00	65.25	4838.00	5348.00	5093.00	100	0.71	1.49	1.00	1.00	1.00	1.81E-04	81-288bo100 #2
139	100.00	154.00	4838.00	5348.00	5093.00	100	0.71	1.49	1.00	1.00	1.00	3.02E-04	81-288bo100 #3
140	100.00	19.10	7257.00	8021.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	7.98E-05	81-288bo100 #4
141	100.00	65.25	7257.00	8021.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	1.27E-04	81-288bo100 #5
142	100.00	154.00	7257.00	8021.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	4.56E-04	81-288bo100 #6
143	100.00	19.10	9677.00	10695.00	10186.00	100	0.71	1.49	1.00	1.00	1.00	2.87E-03	81-288bo100 #7
144	100.00	65.25	9677.00	10695.00	10186.00	100	0.71	1.49	1.00	1.00	1.00	8.44E-05	81-288bo100 #8
145	100.00	154.00	9677.00	10695.00	10186.00	100	0.71	1.49	1.00	1.00	1.00	3.72E-04	81-288bo100 #9
146	100.00	19.10	218.00	418.00	318.00	50	0.71	1.49	1.00	1.00	1.00	6.06E-03	81-288bo100 #1
147	100.00	19.10	1173.00	1373.00	1273.00	50	0.71	1.49	1.00	1.00	1.00	1.18E-04	81-288bo100 #2
148	100.00	19.10	2419.00	2673.00	2546.00	50	0.71	1.49	1.00	1.00	1.00	4.03E-05	81-288bo100 #3
149	100.00	19.10	4838.00	5348.00	5093.00	50	0.71	1.49	1.00	1.00	1.00	2.04E-04	81-288bo100 #4
150	100.00	19.10	7257.00	8021.00	7639.00	50	0.71	1.49	1.00	1.00	1.00	2.55E-05	81-288bo100 #5
151	100.00	19.10	9677.00	10695.00	10186.00	50	0.71	1.49	1.00	1.00	1.00	1.17E-04	81-288bo100 #6
152	100.00	2.77	130.00	210.00	170.00	100	0.71	1.49	1.00	1.00	1.00	8.04E-04	81-288bo100 #1
153	100.00	19.10	130.00	210.00	170.00	100	0.71	1.49	1.00	1.00	1.00	6.52E-04	81-288bo100 #2
154	100.00	65.25	130.00	210.00	170.00	100	0.71	1.49	1.00	1.00	1.00	1.66E-03	81-288bo100 #3
155	100.00	154.00	130.00	210.00	170.00	100	0.71	1.49	1.00	1.00	1.00	7.36E-04	81-288bo100 #4
156	100.00	2.77	178.00	368.00	273.00	100	0.71	1.49	1.00	1.00	1.00	4.18E-04	81-288bo100 #5
157	100.00	19.10	178.00	368.00	273.00	100	0.71	1.49	1.00	1.00	1.00	1.60E-03	81-288bo100 #6
158	100.00	65.25	178.00	368.00	273.00	100	0.71	1.49	1.00	1.00	1.00	1.84E-04	81-288bo100 #7
159	100.00	154.00	178.00	368.00	273.00	100	0.71	1.49	1.00	1.00	1.00	3.13E-03	81-288bo100 #8
160	100.00	2.77	1173.00	1373.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	3.09E-04	81-288bo100 #9
161	100.00	19.10	1173.00	1373.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	9.50E-05	81-288bo100 #10
162	100.00	65.25	1173.00	1373.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	1.28E-04	81-288bo100 #11
163	100.00	154.00	1173.00	1373.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	1.57E-04	81-288bo100 #12
164	100.00	2.77	2446.00	2646.00	2546.00	100	0.71	1.49	1.00	1.00	1.00	0.00E+00	81-288bo100 #13
165	100.00	19.10	2446.00	2646.00	2546.00	100	0.71	1.49	1.00	1.00	1.00	4.26E-05	81-288bo100 #14
166	100.00	65.25	2446.00	2646.00	2546.00	100	0.71	1.49	1.00	1.00	1.00	1.39E-04	81-288bo100 #15
167	100.00	154.00	2446.00	2646.00	2546.00	100	0.71	1.49	1.00	1.00	1.00	3.57E-05	81-288bo100 #16
168	100.00	2.77	130.00	210.00	170.00	30	0.71	1.49	1.00	1.00	1.00	8.04E-05	81-288bo100 #1
169	100.00	5.61	130.00	210.00	170.00	30	0.71	1.49	1.00	1.00	1.00	1.85E-04	81-288bo100 #2
170	100.00	2.77	178.00	368.00	273.00	30	0.71	1.49	1.00	1.00	1.00	4.21E-04	81-288bo100 #3
171	100.00	5.61	178.00	368.00	273.00	30	0.71	1.49	1.00	1.00	1.00	2.12E-05	81-288bo100 #4
172	100.00	2.77	1173.00	1373.00	1273.00	30	0.71	1.49	1.00	1.00	1.00	3.85E-04	81-288bo100 #5
173	100.00	5.61	1173.00	1373.00	1273.00	30	0.71	1.49	1.00	1.00	1.00	2.00E-04	81-288bo100 #6
174	100.00	2.77	2446.00	2646.00	2546.00	30	0.71	1.49	1.00	1.00	1.00	5.82E-04	81-288bo100 #7
175	100.00	5.61	2446.00	2646.00	2546.00	30	0.71	1.49	1.00	1.00	1.00	4.71E-04	81-288bo100 #8
176	100.00	19.10	4838.00	5348.00	5093.00	100	0.71	1.49	1.00	1.00	1.00	1.90E-05	81-288bo100 #1
177	100.00	65.25	4838.00	5348.00	5093.00	100	0.71	1.49	1.00	1.00	1.00	4.58E-04	81-288bo100 #2
178	100.00	154.00	4838.00	5348.00	5093.00	100	0.71	1.49	1.00	1.00	1.00	8.72E-04	81-288bo100 #3
179	100.00	19.10	7257.00	8021.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	1.82E-05	81-288bo100 #4
180	100.00	65.25	7257.00	8021.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	4.79E-05	81-288bo100 #5
181	100.00	154.00	7257.00	8021.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	4.92E-04	81-288bo100 #6
182	100.00	19.10	9677.00	10695.00	10186.00	100	0.71	1.49	1.00	1.00	1.00	1.53E-03	81-288bo100 #7
183	100.00	65.25	9677.00	10695.00	10186.00	100	0.71	1.49	1.00	1.00	1.00	6.01E-05	81-288bo100 #8
184	100.00	154.00	9677.00	10695.00	10186.00	100	0.71	1.49	1.00	1.00	1.00	1.77E-04	81-288bo100 #9
185	100.00	19.10	9677.00	10695.00	10186.00	100	0.71	1.49	1.00	1.00	1.00	1.15E-03	81-288bo100 #1
186	100.00	19.10	10695.00	9677.00	10186.00	100	0.71	1.49	1.00	1.00	1.00	1.21E-03	81-288bo100 #2
187	150.00	19.10	218.00	418.00	318.00	50	0.71	1.49	1.00	1.00	1.00	1.43E-03	81-288bo150 #1
188	150.00	65.25	218.00	418.00	318.00	50	0.71	1.49	1.00	1.00	1.00	2.39E-03	81-288bo150 #2
189	150.00	154.00	218.00	418.00	318.00	50	0.71	1.49	1.00	1.00	1.00	6.05E-06	81-288bo150 #3
190	150.00	19.10	1173.00	1373.00	1273.00	50	0.71	1.49	1.00	1.00	1.00	2.60E-05	81-288bo150 #4

Data set: BO 81-288 ApiezonC+5%Bardhal(VacKote) ....continued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
191	150.00	65.25	1173.00	1373.00	1273.00	50	0.71	1.49	1.00	1.00	1.00	5.94E-04	81-288bo150 #5
192	150.00	154.00	1173.00	1373.00	1273.00	50	0.71	1.49	1.00	1.00	1.00	4.05E-02	81-288bo150 #6
193	150.00	19.10	2419.00	2673.00	2546.00	50	0.71	1.49	1.00	1.00	1.00	6.18E-05	81-288bo150 #7
194	150.00	65.25	2419.00	2673.00	2546.00	50	0.71	1.49	1.00	1.00	1.00	3.63E-04	81-288bo150 #8
195	150.00	154.00	2419.00	2673.00	2546.00	50	0.71	1.49	1.00	1.00	1.00	5.88E-03	81-288bo150 #9
196	150.00	19.10	4838.00	5348.00	5093.00	50	0.71	1.49	1.00	1.00	1.00	5.63E-05	81-288bo150 #10
197	150.00	65.25	4838.00	5348.00	5093.00	50	0.71	1.49	1.00	1.00	1.00	4.44E-05	81-288bo150 #11
198	150.00	154.00	4838.00	5348.00	5093.00	50	0.71	1.49	1.00	1.00	1.00	3.93E-04	81-288bo150 #12
199	150.00	19.10	7257.00	8021.00	7639.00	50	0.71	1.49	1.00	1.00	1.00	1.13E-05	81-288bo150 #13
200	150.00	65.25	7257.00	8021.00	7639.00	50	0.71	1.49	1.00	1.00	1.00	2.73E-04	81-288bo150 #14
201	150.00	154.00	7257.00	8021.00	7639.00	50	0.71	1.49	1.00	1.00	1.00	7.88E-04	81-288bo150 #15
202	150.00	19.10	9677.00	10695.00	10186.00	50	0.71	1.49	1.00	1.00	1.00	1.38E-05	81-288bo150 #16
203	150.00	65.25	9677.00	10695.00	10186.00	50	0.71	1.49	1.00	1.00	1.00	1.44E-04	81-288bo150 #17
204	150.00	154.00	9677.00	10695.00	10186.00	50	0.71	1.49	1.00	1.00	1.00	6.43E-04	81-288bo150 #18
205	150.00	65.25	168.00	468.00	318.00	100	0.71	1.49	1.00	1.00	1.00	6.23E-04	81-288bo150 #1
206	150.00	154.00	168.00	468.00	318.00	100	0.71	1.49	1.00	1.00	1.00	1.17E-02	81-288bo150 #2
207	150.00	65.25	1073.00	1473.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	8.10E-05	81-288bo150 #3
208	150.00	154.00	1073.00	1473.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	6.04E-04	81-288bo150 #4
209	150.00	65.25	2346.00	2746.00	2546.00	100	0.71	1.49	1.00	1.00	1.00	3.09E-04	81-288bo150 #5
210	150.00	154.00	2346.00	2746.00	2546.00	100	0.71	1.49	1.00	1.00	1.00	2.40E-04	81-288bo150 #6
211	200.00	19.10	218.00	418.00	318.00	100	0.71	1.49	1.00	1.00	1.00	1.82E-03	81-288bo200 #1
212	200.00	65.25	218.00	418.00	318.00	100	0.71	1.49	1.00	1.00	1.00	6.33E-03	81-288bo200 #2
213	200.00	154.00	218.00	418.00	318.00	100	0.71	1.49	1.00	1.00	1.00	4.65E-02	81-288bo200 #3
214	200.00	19.10	1173.00	1373.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	4.27E-05	81-288bo200 #4
215	200.00	65.25	1173.00	1373.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	1.23E-03	81-288bo200 #5
216	200.00	154.00	1173.00	1373.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	3.91E-05	81-288bo200 #6
217	200.00	19.10	2419.00	2673.00	2546.00	100	0.71	1.49	1.00	1.00	1.00	1.74E-05	81-288bo200 #7
218	200.00	65.25	2419.00	2673.00	2546.00	100	0.71	1.49	1.00	1.00	1.00	1.21E-04	81-288bo200 #8
219	200.00	154.00	2419.00	2673.00	2546.00	100	0.71	1.49	1.00	1.00	1.00	1.57E-04	81-288bo200 #9
220	200.00	19.10	4838.00	5348.00	5093.00	100	0.71	1.49	1.00	1.00	1.00	1.07E-05	81-288bo200 #10
221	200.00	65.25	4838.00	5348.00	5093.00	100	0.71	1.49	1.00	1.00	1.00	4.48E-05	81-288bo200 #11
222	200.00	154.00	4838.00	5348.00	5093.00	100	0.71	1.49	1.00	1.00	1.00	4.82E-04	81-288bo200 #12
223	200.00	19.10	7257.00	8021.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	4.62E-06	81-288bo200 #13
224	200.00	65.25	7257.00	8021.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	3.13E-05	81-288bo200 #14
225	200.00	154.00	7257.00	8021.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	2.73E-04	81-288bo200 #15
226	200.00	19.10	9677.00	10695.00	10186.00	100	0.71	1.49	1.00	1.00	1.00	1.78E-05	81-288bo200 #16
227	200.00	65.25	9677.00	10695.00	10186.00	100	0.71	1.49	1.00	1.00	1.00	4.59E-05	81-288bo200 #17
228	200.00	154.00	9677.00	10695.00	10186.00	100	0.71	1.49	1.00	1.00	1.00	2.52E-04	81-288bo200 #18
229	250.00	19.10	218.00	418.00	318.00	100	0.71	1.49	1.00	1.00	1.00	1.33E-01	81-288bo250 #1
230	250.00	65.25	218.00	418.00	318.00	100	0.71	1.49	1.00	1.00	1.00	1.62E-02	81-288bo250 #2
231	250.00	154.00	218.00	418.00	318.00	100	0.71	1.49	1.00	1.00	1.00	7.70E-02	81-288bo250 #3
232	250.00	19.10	1173.00	1373.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	2.37E-05	81-288bo250 #4
233	250.00	65.25	1173.00	1373.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	3.63E-04	81-288bo250 #5
234	250.00	154.00	1173.00	1373.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	9.08E-04	81-288bo250 #6
235	250.00	154.00	4838.00	5348.00	5093.00	100	0.71	1.49	1.00	1.00	1.00	4.46E-05	81-288bo250 #12
236	250.00	65.25	7257.00	8021.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	4.05E-06	81-288bo250 #14
237	250.00	19.10	9677.00	10695.00	10186.00	100	0.71	1.49	1.00	1.00	1.00	1.71E-05	81-288bo250 #16
238	250.00	154.00	9677.00	10695.00	10186.00	100	0.71	1.49	1.00	1.00	1.00	2.84E-04	81-288bo250 #18
239	250.00	19.10	218.00	418.00	318.00	100	0.71	1.49	1.00	1.00	1.00	2.75E-02	81-288bo250 #1
240	250.00	65.25	218.00	418.00	318.00	100	0.71	1.49	1.00	1.00	1.00	5.54E-02	81-288bo250 #2
241	250.00	154.00	218.00	418.00	318.00	100	0.71	1.49	1.00	1.00	1.00	9.91E-02	81-288bo250 #3
242	250.00	19.10	1173.00	1373.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	1.56E-05	81-288bo250 #4
243	250.00	65.25	1173.00	1373.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	6.37E-04	81-288bo250 #5
244	250.00	154.00	1173.00	1373.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	8.61E-04	81-288bo250 #6
245	250.00	19.10	2419.00	2673.00	2546.00	100	0.71	1.49	1.00	1.00	1.00	1.49E-05	81-288bo250 #7
246	250.00	65.25	2419.00	2673.00	2546.00	100	0.71	1.49	1.00	1.00	1.00	1.60E-05	81-288bo250 #8
247	250.00	154.00	2419.00	2673.00	2546.00	100	0.71	1.49	1.00	1.00	1.00	4.23E-05	81-288bo250 #9
248	250.00	19.10	4838.00	5348.00	5093.00	100	0.71	1.49	1.00	1.00	1.00	8.52E-06	81-288bo250 #10
249	250.00	65.25	4838.00	5348.00	5093.00	100	0.71	1.49	1.00	1.00	1.00	4.34E-05	81-288bo250 #11
250	250.00	154.00	4838.00	5348.00	5093.00	100	0.71	1.49	1.00	1.00	1.00	9.42E-05	81-288bo250 #12
251	250.00	19.10	7257.00	8021.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	1.90E-05	81-288bo250 #13
252	250.00	65.25	7257.00	8021.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	2.29E-04	81-288bo250 #14
253	250.00	154.00	7257.00	8021.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	4.07E-04	81-288bo250 #15
254	250.00	19.10	9677.00	10695.00	10186.00	100	0.71	1.49	1.00	1.00	1.00	5.94E-06	81-288bo250 #16
255	250.00	65.25	9677.00	10695.00	10186.00	100	0.71	1.49	1.00	1.00	1.00	1.48E-04	81-288bo250 #17
256	250.00	154.00	9677.00	10695.00	10186.00	100	0.71	1.49	1.00	1.00	1.00	4.87E-04	81-288bo250 #18
257	300.00	19.10	218.00	418.00	318.00	100	0.71	1.49	1.00	1.00	1.00	1.43E-01	81-288bo300 #1
258	300.00	65.25	218.00	418.00	318.00	100	0.71	1.49	1.00	1.00	1.00	1.02E-01	81-288bo300 #2
259	300.00	154.00	218.00	418.00	318.00	100	0.71	1.49	1.00	1.00	1.00	1.03E-02	81-288bo300 #3
260	300.00	19.10	1173.00	1373.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	1.27E-04	81-288bo300 #4

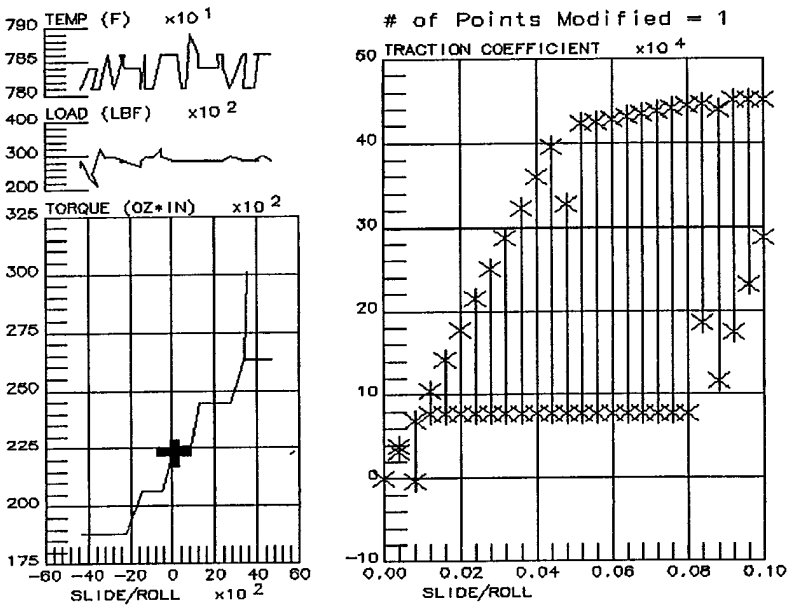
Data set: BO 81-288 ApiezonC+5%Bardhal(VacKote) ....continued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
261	300.00	65.25	1173.00	1373.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	1.36E-04	81-288bo300 #5
262	300.00	154.00	1173.00	1373.00	1273.00	100	0.71	1.49	1.00	1.00	1.00	4.44E-04	81-288bo300 #6
263	300.00	19.10	2419.00	2673.00	2546.00	100	0.71	1.49	1.00	1.00	1.00	1.08E-05	81-288bo300 #7
264	300.00	65.25	2419.00	2673.00	2546.00	100	0.71	1.49	1.00	1.00	1.00	2.05E-05	81-288bo300 #8
265	300.00	154.00	2419.00	2673.00	2546.00	100	0.71	1.49	1.00	1.00	1.00	3.60E-05	81-288bo300 #9
266	300.00	19.10	4838.00	5348.00	5093.00	100	0.71	1.49	1.00	1.00	1.00	1.26E-05	81-288bo300 #10
267	300.00	65.25	4838.00	5348.00	5093.00	100	0.71	1.49	1.00	1.00	1.00	7.02E-06	81-288bo300 #11
268	300.00	154.00	4838.00	5348.00	5093.00	100	0.71	1.49	1.00	1.00	1.00	9.38E-05	81-288bo300 #12
269	300.00	19.10	7257.00	8021.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	1.63E-05	81-288bo300 #13
270	300.00	65.25	7257.00	8021.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	7.68E-06	81-288bo300 #14
271	300.00	154.00	7257.00	8021.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	1.40E-04	81-288bo300 #15
272	300.00	19.10	9677.00	10695.00	10186.00	100	0.71	1.49	1.00	1.00	1.00	3.96E-05	81-288bo300 #16
273	300.00	65.25	9677.00	10695.00	10186.00	100	0.71	1.49	1.00	1.00	1.00	5.41E-06	81-288bo300 #17
274	300.00	154.00	9677.00	10695.00	10186.00	100	0.71	1.49	1.00	1.00	1.00	1.22E-04	81-288bo300 #18

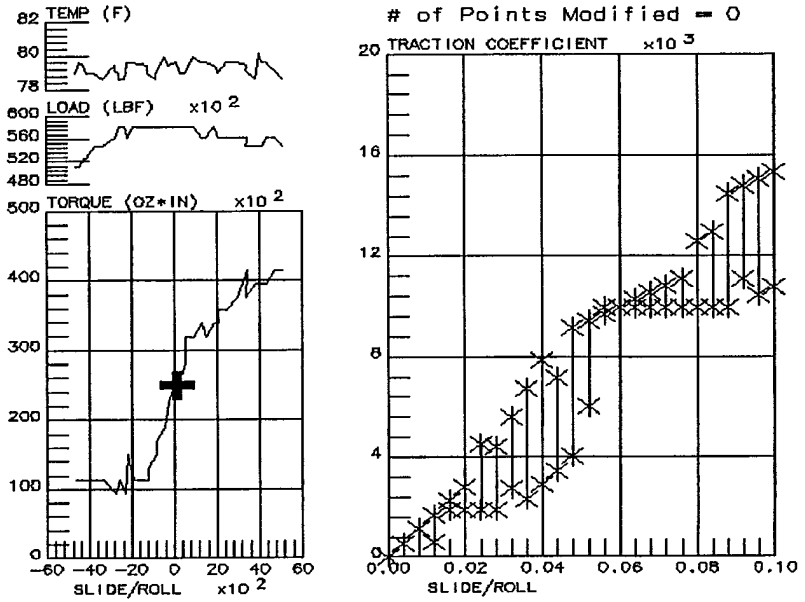
Summary of Select Data Files

Filename	Temp	RollRpm	DataCurve #		
bo1.dat	80.00	2546.00	73	19	20
bo2.dat	80.00	5093.00	59	24	86
bo3.dat	80.00	7639.00	54	98	87
bo4.dat	80.00	10186.00	29	48	88
bo5.dat	100.00	2546.00	148	166	167
bo6.dat	100.00	5093.00	176	111	139
bo7.dat	100.00	7639.00	179	180	142
bo8.dat	100.00	10186.00	151	183	184
bo9.dat	150.00	2546.00	193	209	210
bo10.dat	150.00	5093.00	196	197	198
bo11.dat	150.00	7639.00	199	200	201
bo12.dat	150.00	10186.00	202	203	204
bo13.dat	200.00	2546.00	217	218	219
bo14.dat	200.00	5093.00	220	221	222
bo15.dat	200.00	7639.00	223	224	225
bo16.dat	200.00	10186.00	226	227	228
bo17.dat	250.00	2546.00	245	246	247
bo18.dat	250.00	5093.00	248	249	235
bo19.dat	250.00	7639.00	251	236	253
bo20.dat	250.00	10186.00	254	255	238
bo21.dat	300.00	2546.00	263	264	265
bo22.dat	300.00	5093.00	266	267	268
bo23.dat	300.00	7639.00	269	270	271
bo24.dat	300.00	10186.00	272	273	274

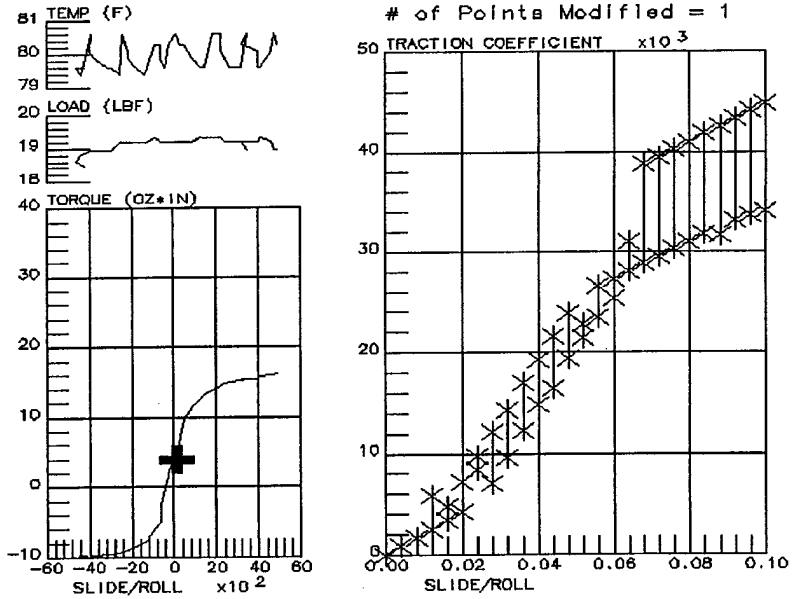
BO 81-288 ApiezonC+5%Bardhal(VacKote) #1
80F 3LBF 170RPM 1 FILE: 81-288bo80



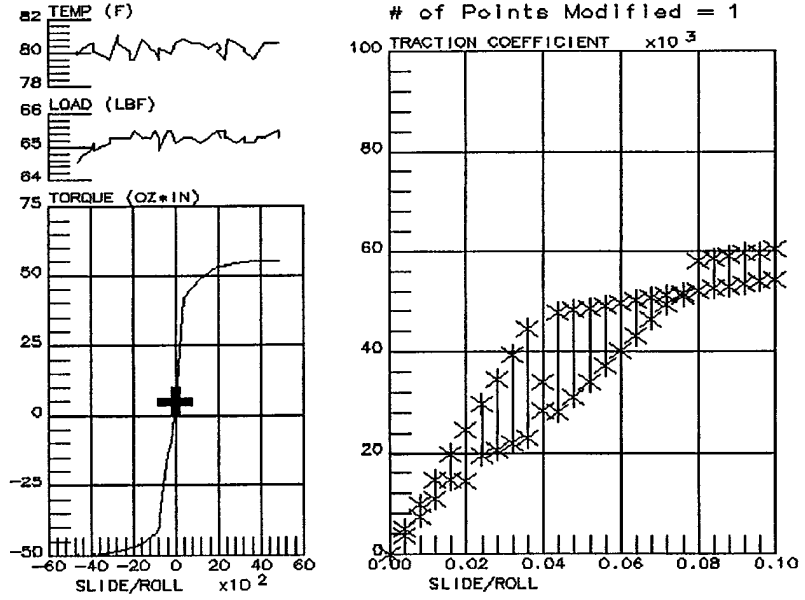
BO 81-288 ApiezonC+5%Bardhal(VacKote) #2
80F 6LBF 170RPM 2 FILE: 81-288bo80



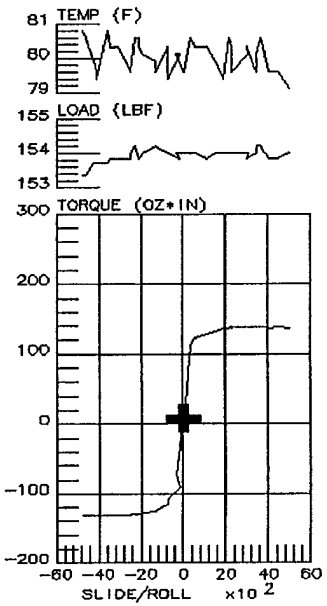
BO 81-288 ApiezonC+5%Bardhal(VacKote) #3
80F 19LBF 170RPM 3 FILE: 81-288bo80

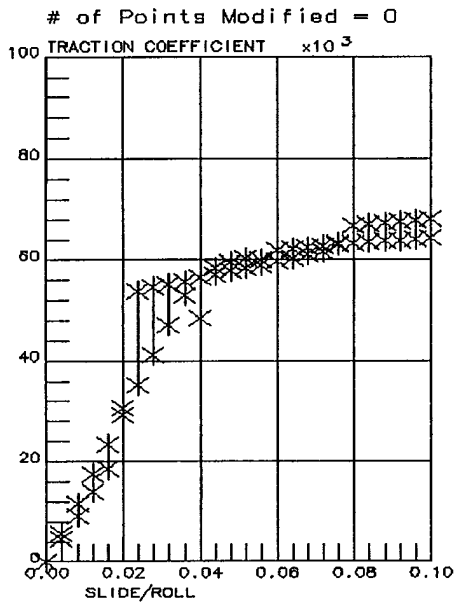


BO 81-288 ApiezonC+5%Bardhal(VacKote) #4
80F 65LBF 170RPM 4 FILE: 81-288bo80

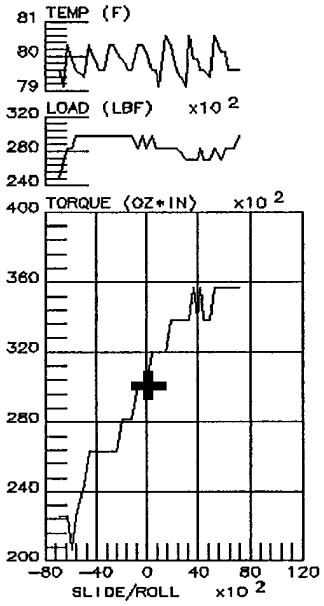


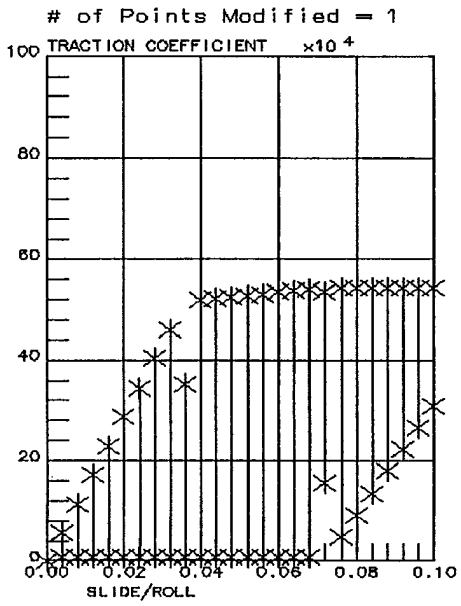
BO 81-288 ApiezonC+5%Bardhal(VacKote) #5
80F 154LBF 170RPM 5 FILE: 81-288bo80



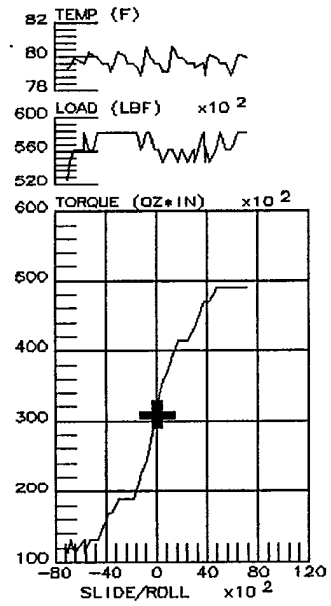


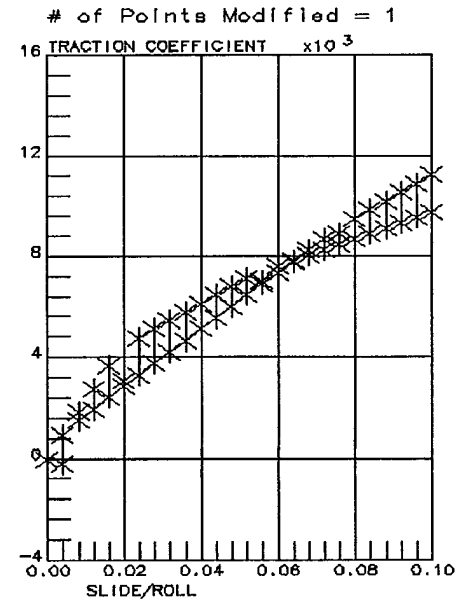
BO 81-288 ApiezonC+5%Bardhal(VacKote) #6
80F 3LBF 273RPM 6 FILE: 81-288bo80



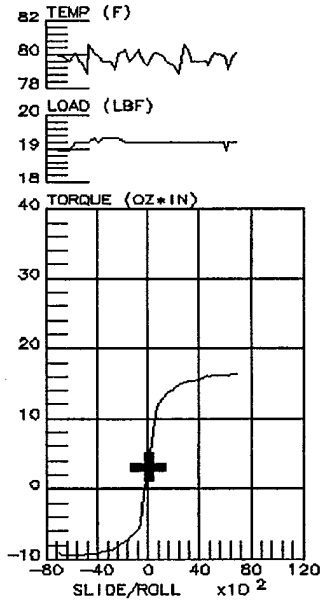


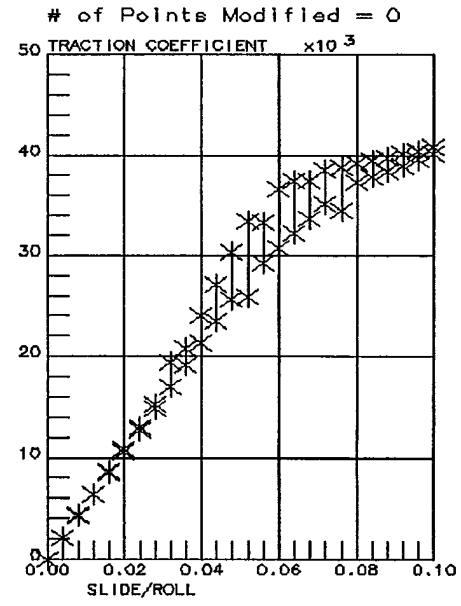
BO 81-288 ApiezonC+5%Bardhal(VacKote) #7
80F 6LBF 273RPM 7 FILE: 81-288bo80



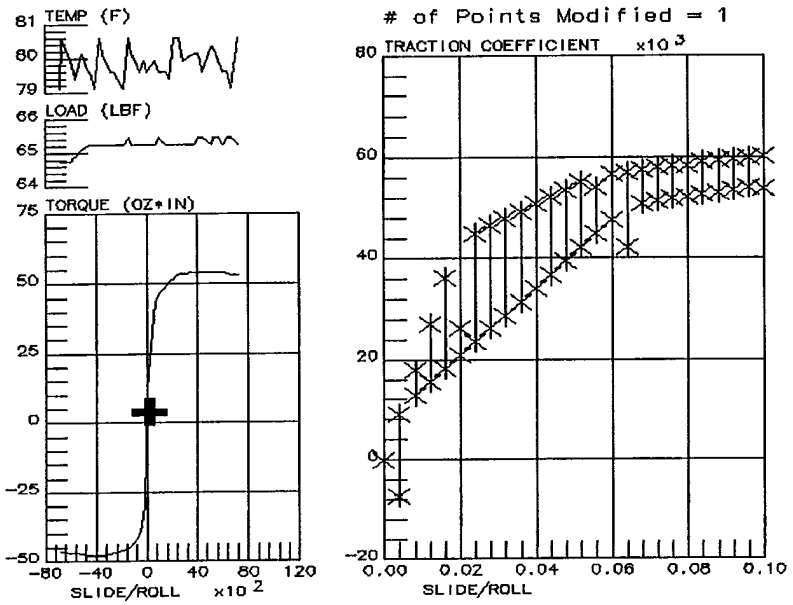


BO 81-288 ApiezonC+5%Bardhal(VacKote) #8
80F 19LBF 273RPM 8 FILE: 81-288bo80

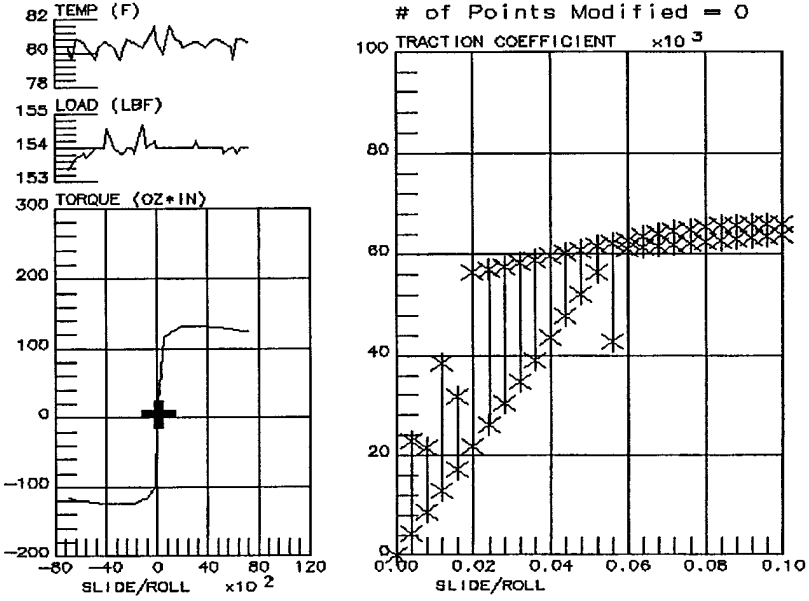




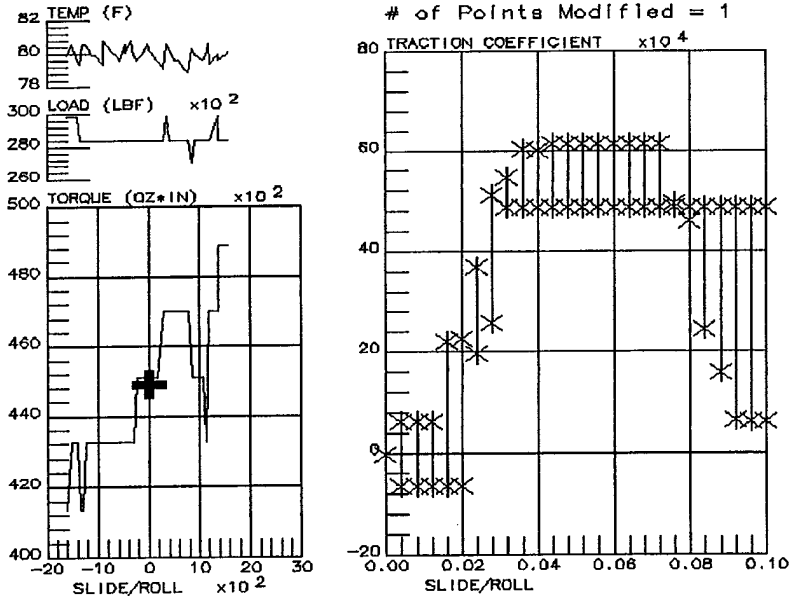
BO 81-288 ApiezonC+5%Bardhal(VacKote) #9
80F 85LBF 273RPM 9 FILE: 81-288bo80



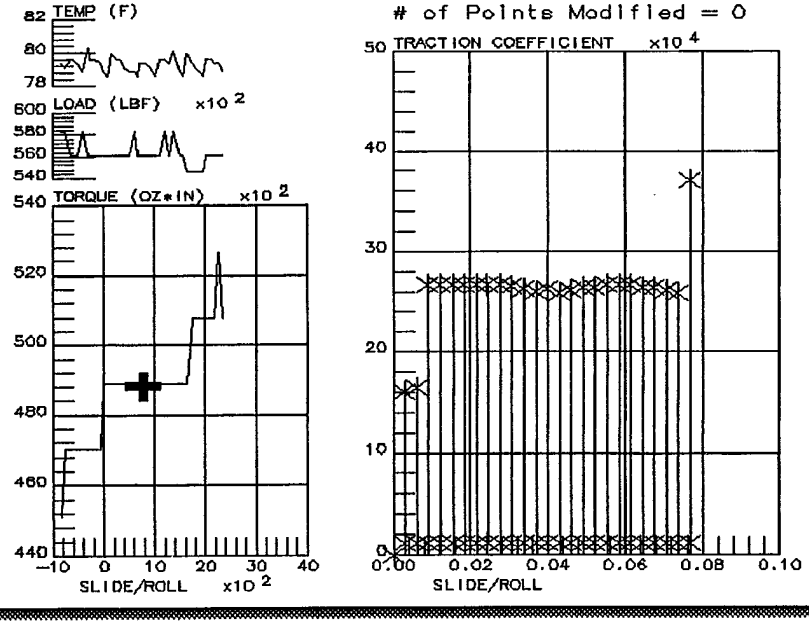
BO 81-288 ApiezonC+5%Bardhal(VacKote) #10
80F 154LBF 273RPM 10 FILE: 81-288bo80



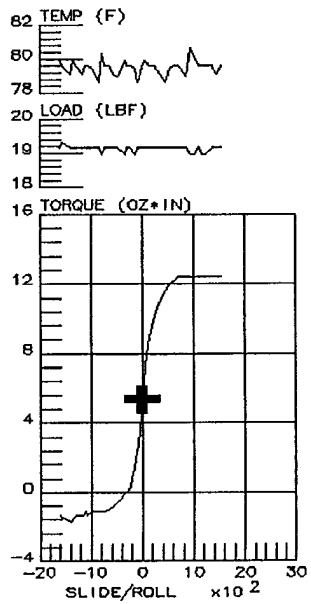
BO 81-288 ApiezonC+5%Bardhal(VacKote) #11
80F 3LBF 1273RPM 11 FILE: 81-288bo80

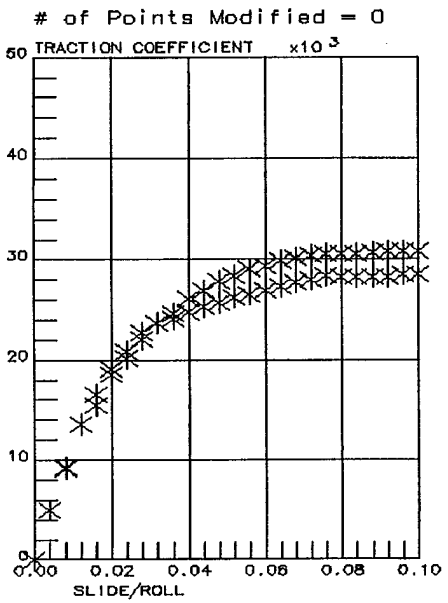


BO 81-288 ApiezonC+5%Bardhal(VacKote) #12
80F 6LBF 1273RPM 12 FILE: 81-288bo80

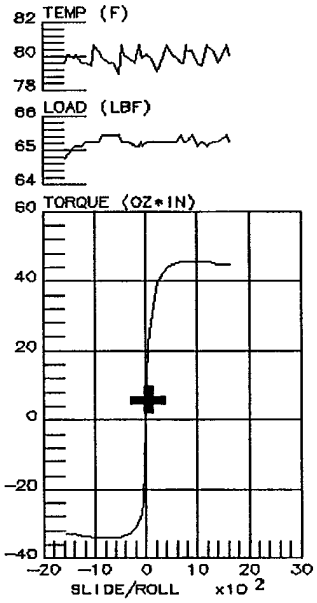


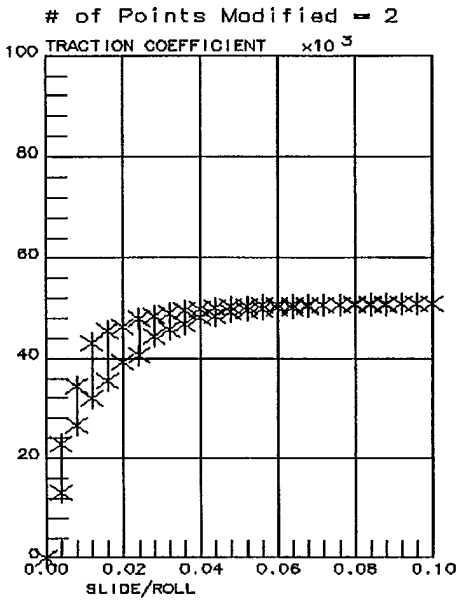
BO 81-288 ApiezonC+5%Bardhal(VacKote) #13
80F 19LBF 1273RPM 13 FILE: 81-288bo80



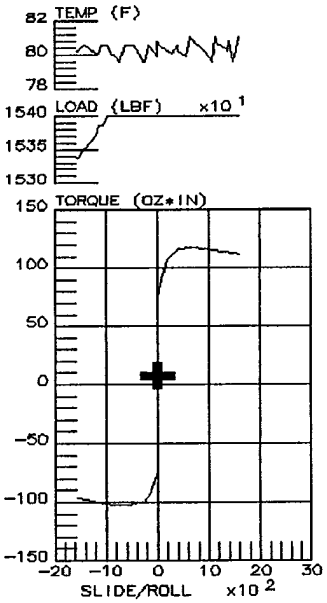


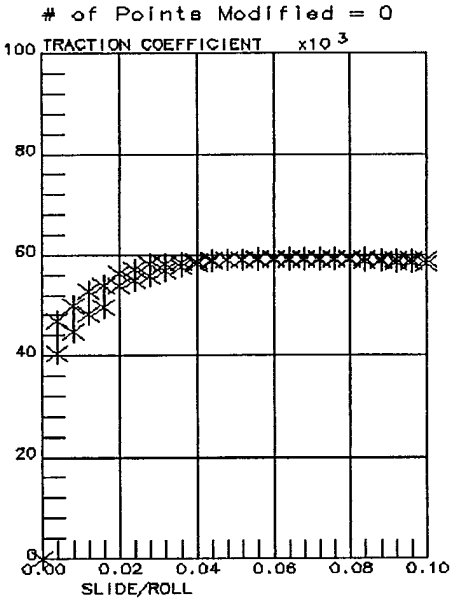
BO 81-288 ApiezonC+5%Bardhal(VacKote) #14
80F 65LBF 1273RPM 14 FILE: 81-288bo80



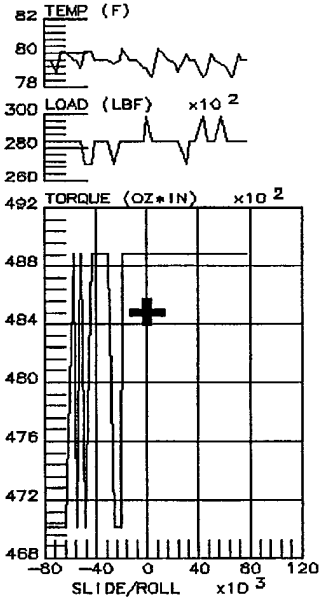


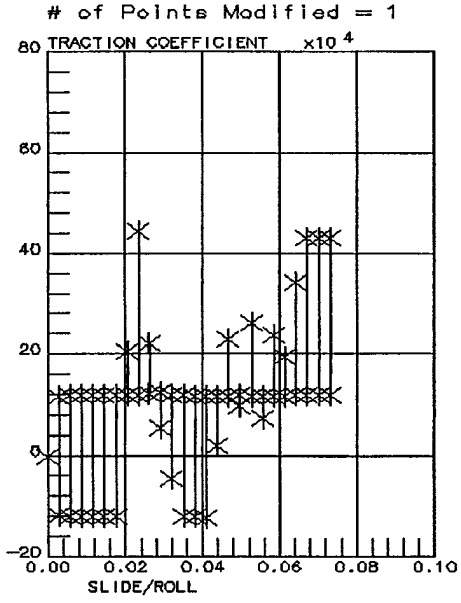
BO 81-288 ApiezonC+5%Bardhal(VacKote) #15
80F 154LBF 1273RPM 15 FILE: 81-288bo80



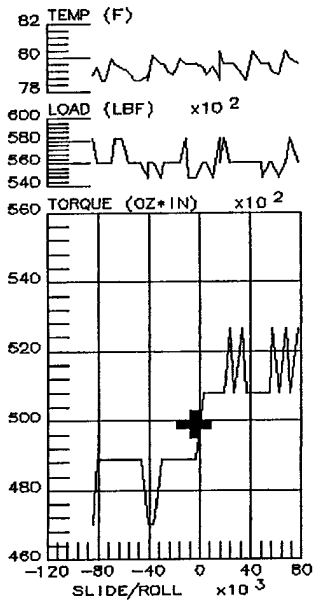


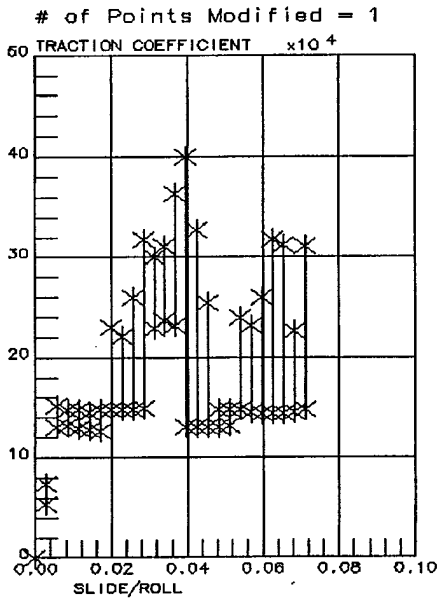
BO 81-288 ApiezonC+5%Bardhal(VacKote) #16
80F 3LBF 2546RPM 16 FILE: 81-288bo80



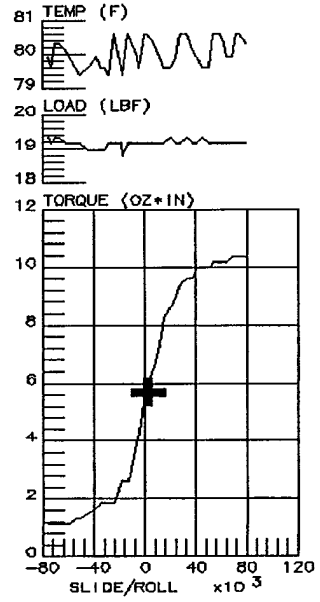


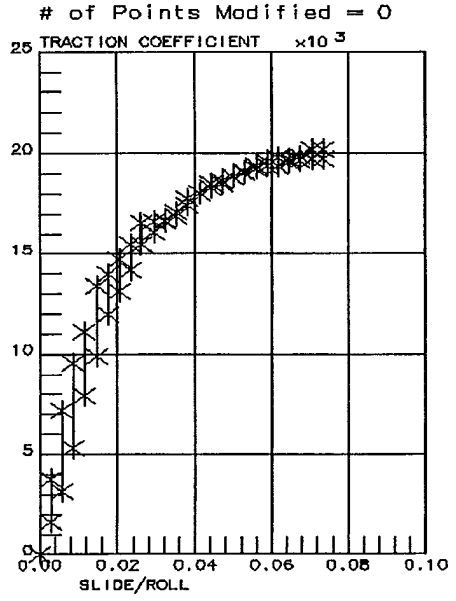
BO 81-288 ApiezonC+5%Bardhal(VacKote) #17
80F 6LBF 2546RPM 17 FILE: 81-288bo80



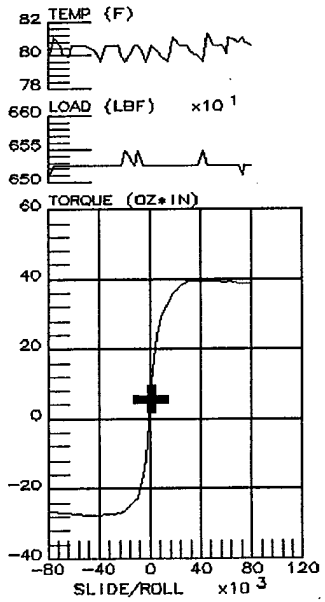


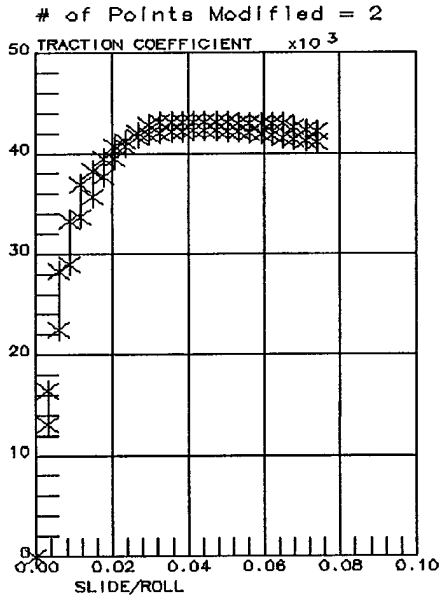
BO 81-288 ApiezonC+5%Bardhal(VacKote) #18
80F 19LBF 2546RPM 18 FILE: 81-288bo80



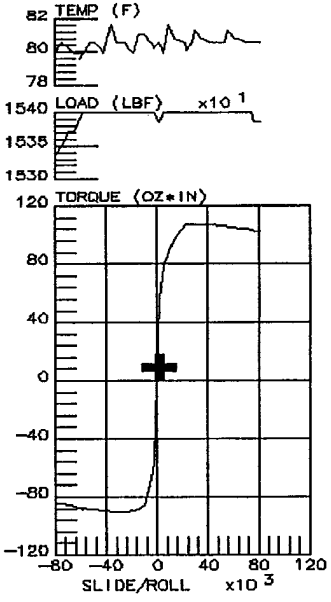


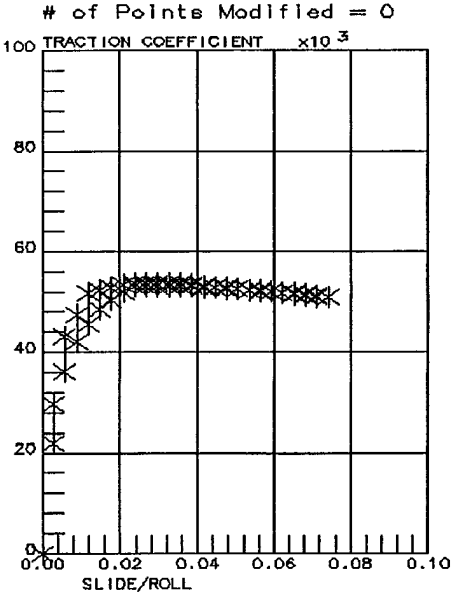
BO 81-288 ApiezonC+5%Bardhal(VacKote) #19
80F 65LBF 2546RPM 19 FILE: 81-288bo80



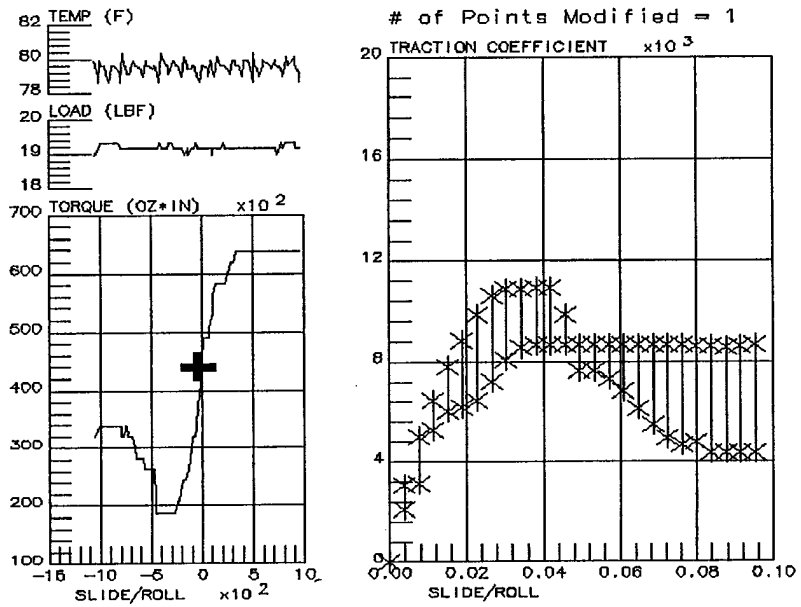


BO 81-288 ApiezonC+5%Bardhal(VacKote) #20
80F 154LBF 2546RPM 20 FILE: 81-288bo80

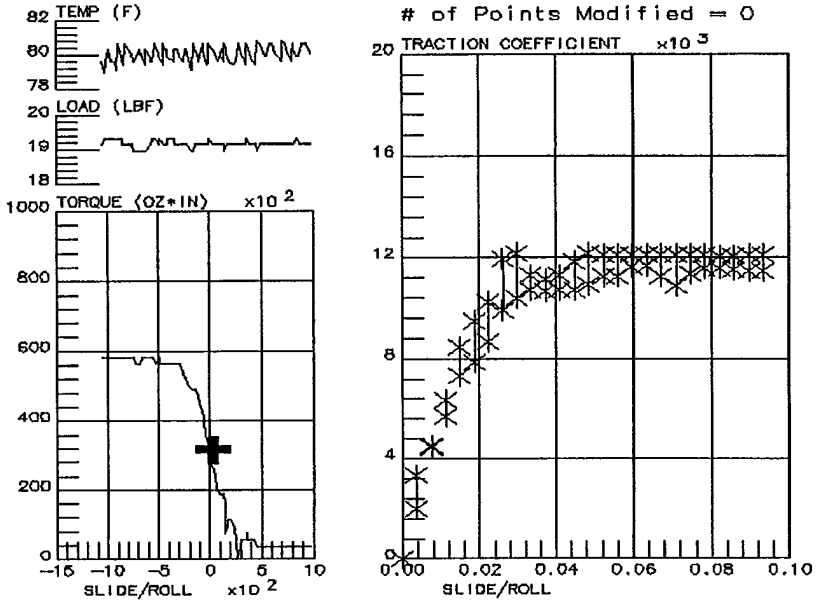




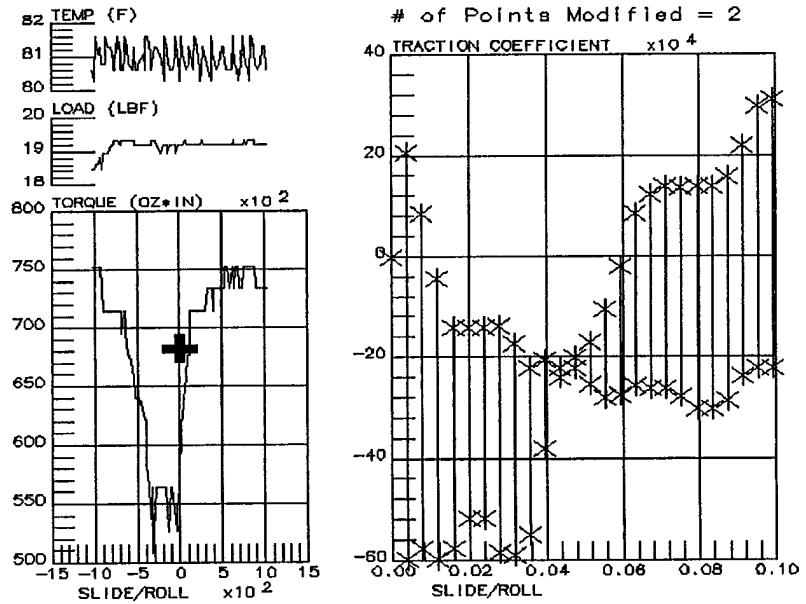
BO 81-288 ApiezonC+5%Bardhal(VacKote) #21
80F 19LBF 5093RPM 1 FILE: 81-288bo80



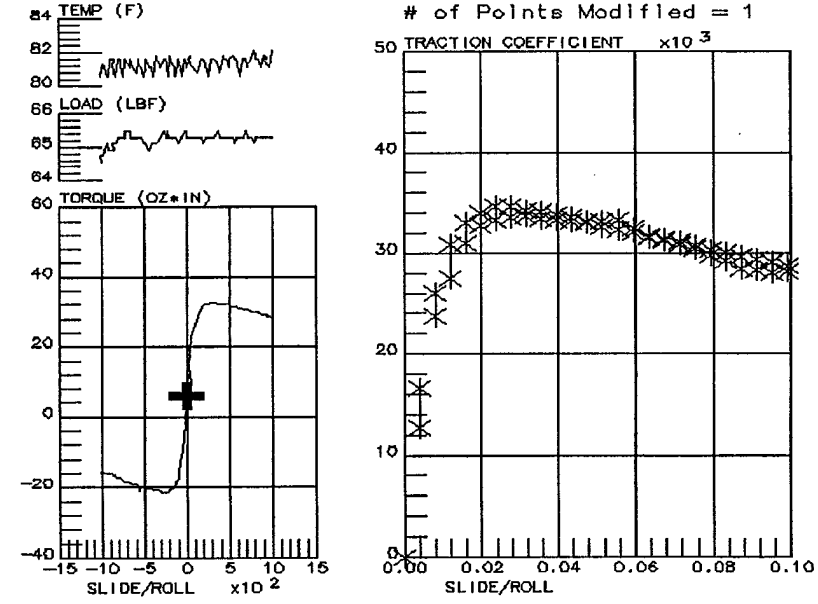
BO 81-288 ApiezonC+5%Bardhal(VacKote) #22
80F 19LBF 5093RPM 2 FILE: 81-288bo80



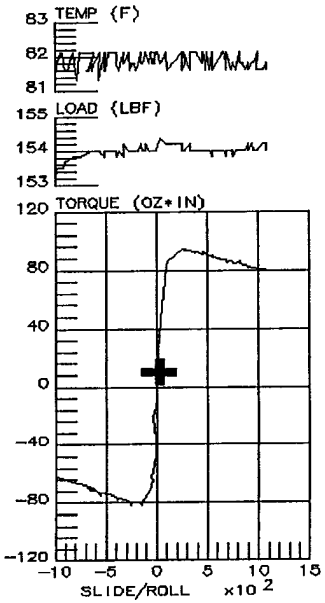
BO 81-288 ApiezonC+5%Bardhal(VacKote) #23
80F 19LBF 5093RPM 1 FILE: 81-288bo80

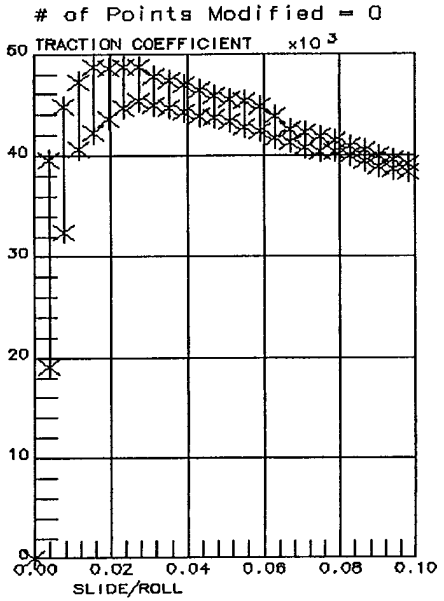


BO 81-288 ApiezonC+5%Bardhal(VacKote) #24
80F 65LBF 5093RPM 2 FILE: 81-288bo80

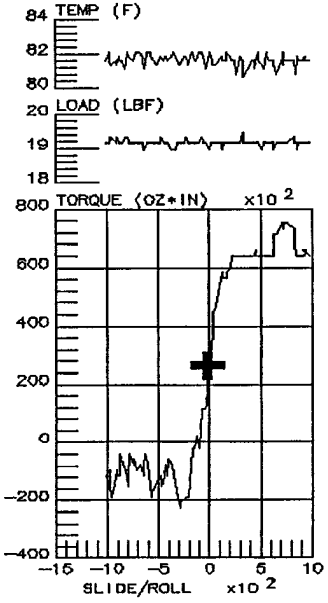


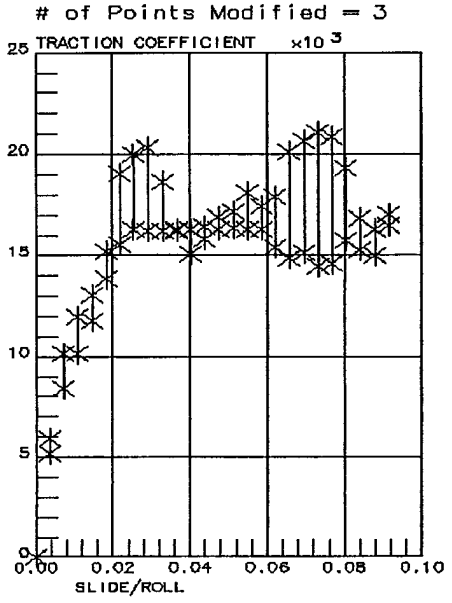
BO 81-288 ApiezonC+5%Bardhal(VacKote) #25
80F 154LBF 5093RPM 3 FILE: 81-288bo80



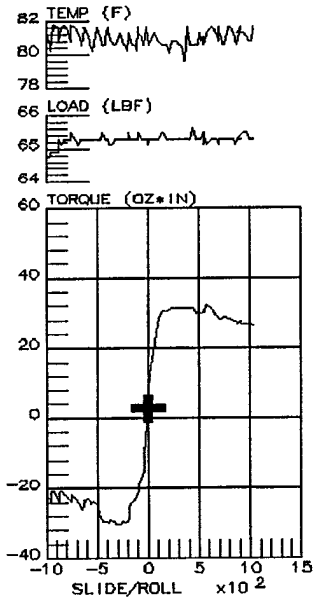


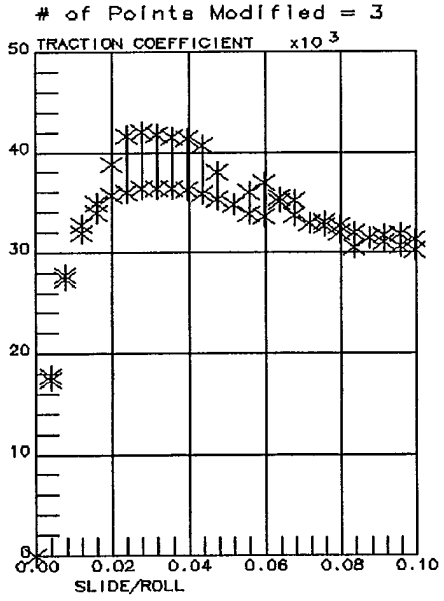
BO 81-288 ApiezonC+5%Bardhal(VacKote) #26
80F 19LBF 7639RPM 4 FILE: 81-288bo80



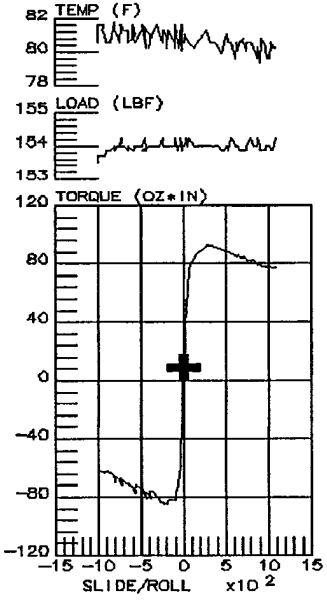


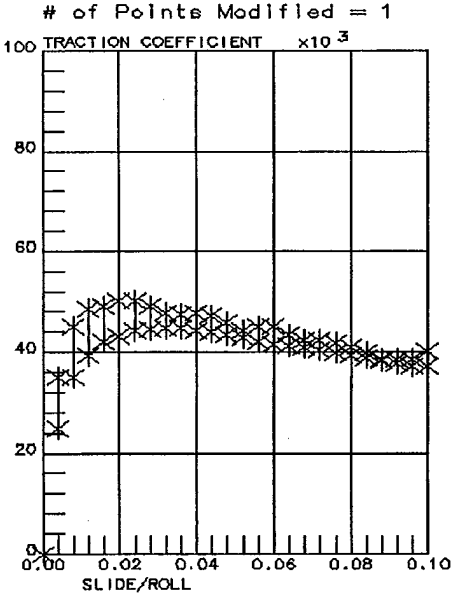
BO 81-288 ApiezonC+5%Bardhal(VacKote) #27
80F 65LBF 7639RPM 5 FILE: 81-288bo80



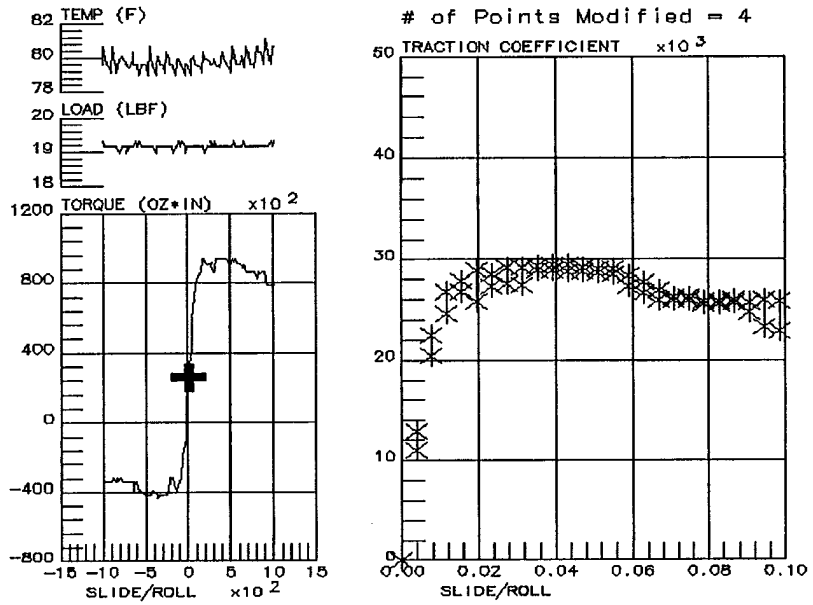


BO 81-288 ApiezonC+5%Bardhal(VacKote) #28
80F 154LBF 7639RPM 6 FILE: 81-288bo80

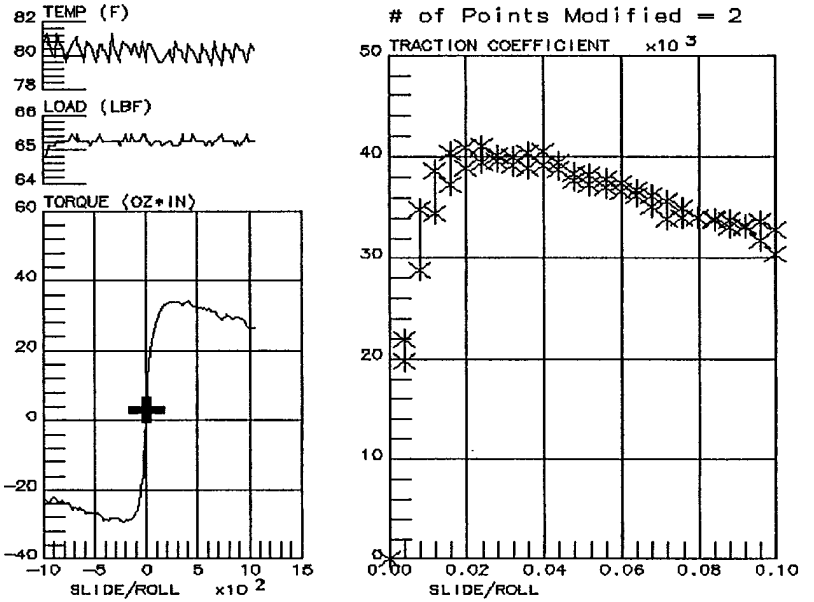




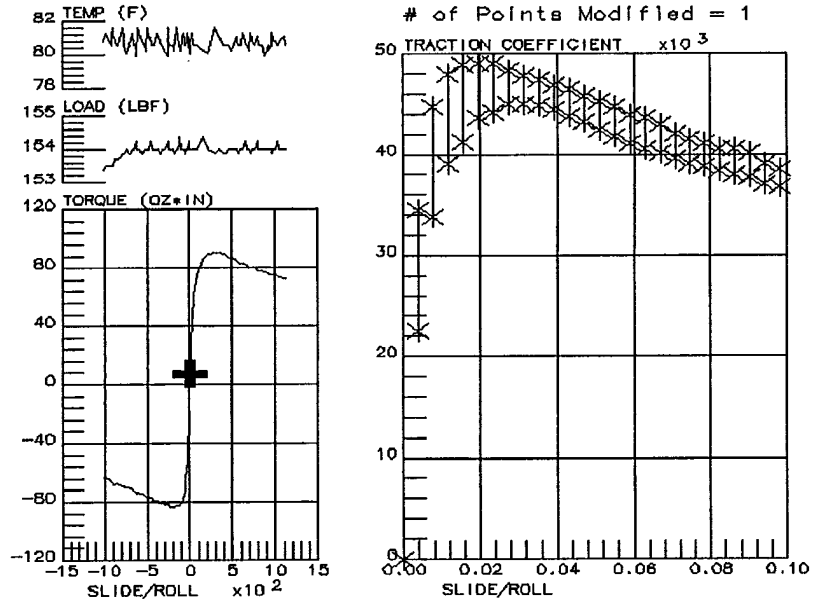
BO 81-288 ApiezonC+5%Bardhal(VacKote) #29
80F 19LBF 10186RPM 7 FILE: 81-288bo80



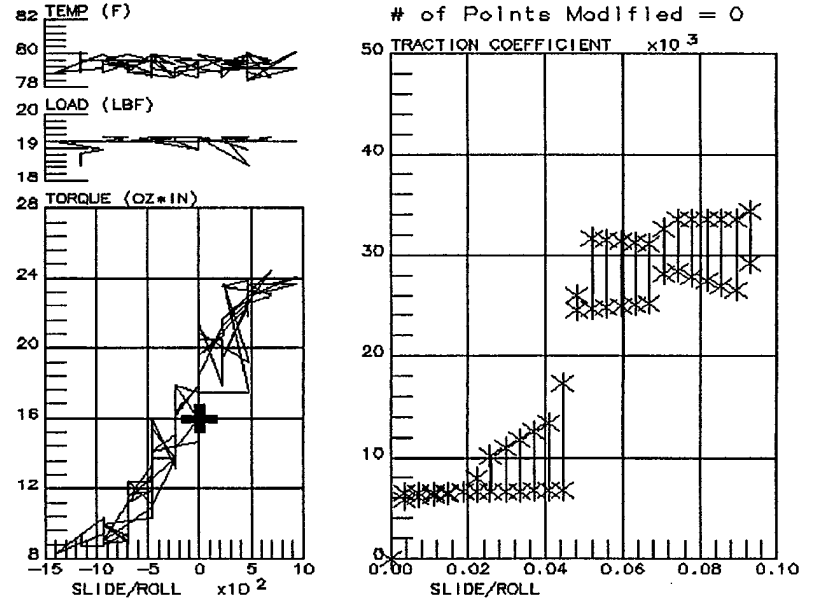
BO 81-288 ApiezonC+5%Bardhal(VacKote) #30
80F 65LBF 10186RPM 8 FILE: 81-288bo80



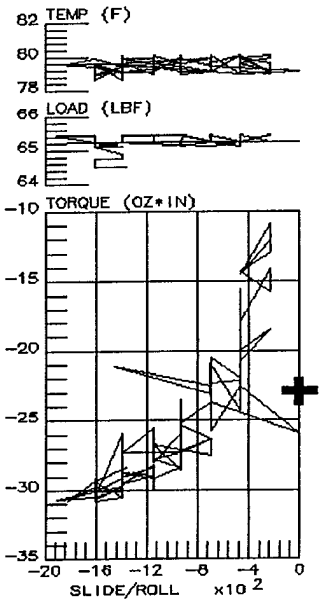
BO 81-288 ApiezonC+5%Bardhal(VacKote) #31
80F 154LBF 10186RPM 9 FILE: 81-288bo80



BO 81-288 ApiezonC+5%Bardhal(VacKote) #32
80F 19LBF 318RPM 1 FILE: 81-288bo80



BO 81-288 ApiezonC+5%Bardhal(VacKote) #33
80F 65LBF 318RPM 2 FILE: 81-288bo80



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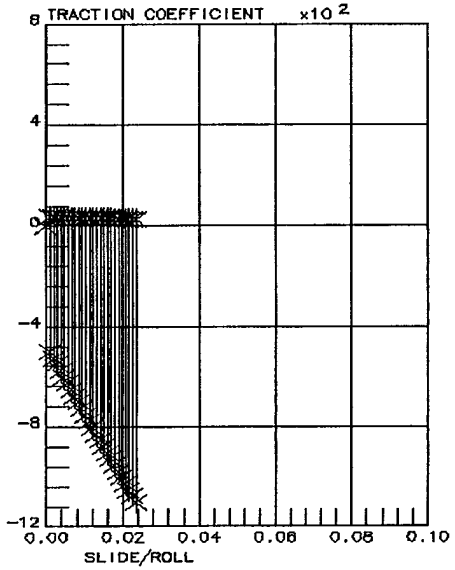
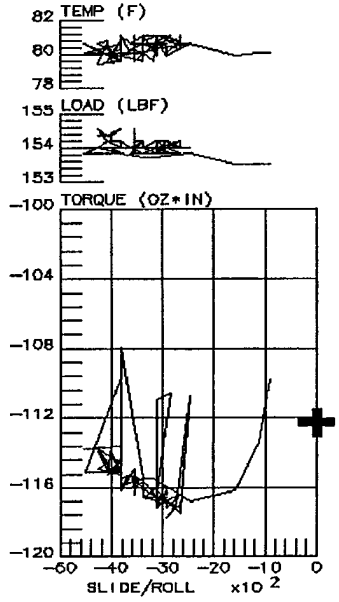


BO 81-288 ApiezonC+5%Bardhal(VacKote) #34
80F 154LBF 318RPM 3 FILE: 81-288bo80



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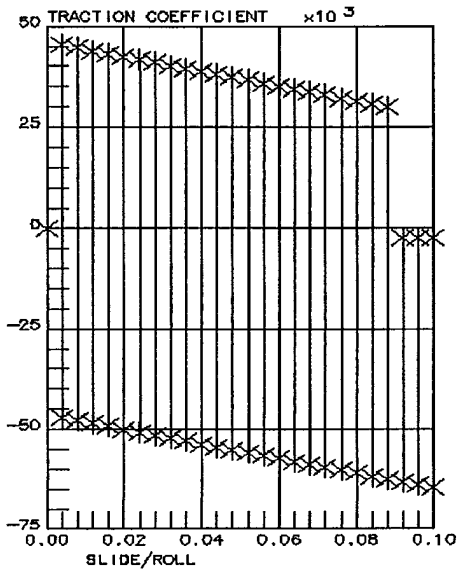
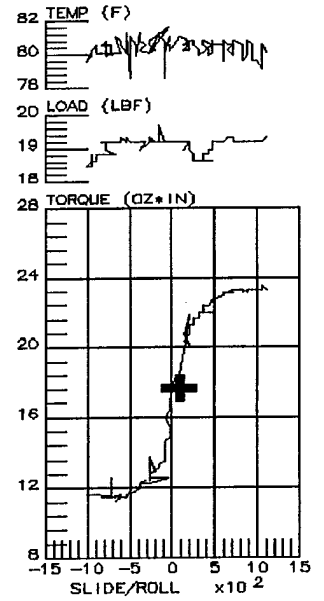


BO 81-288 ApiezonC+5%Bardhal(VacKote) #35
80F 19LBF 1273RPM 4 FILE: 81-288bo80



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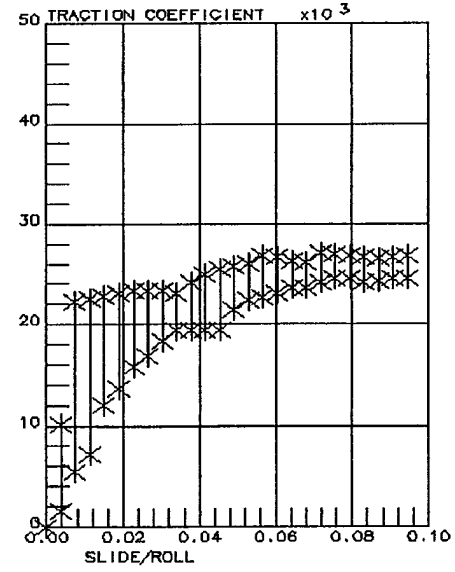
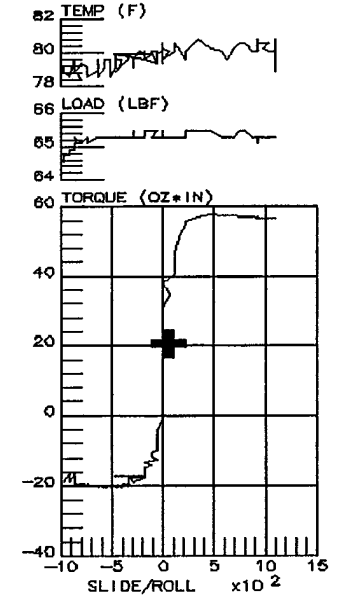


BO 81-288 ApiezonC+5%Bardhal(VacKote) #36
80F 65LBF 1273RPM 5 FILE: 81-288bo80



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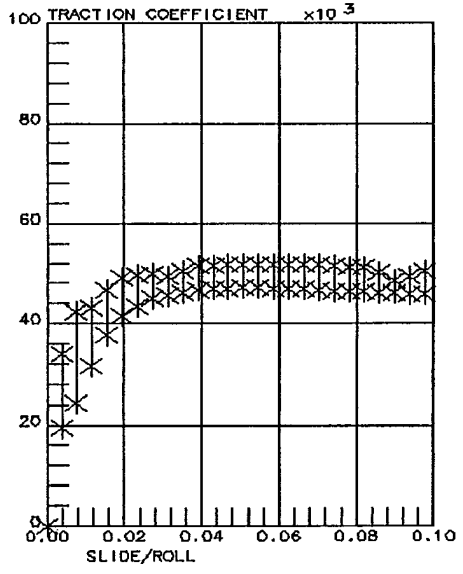
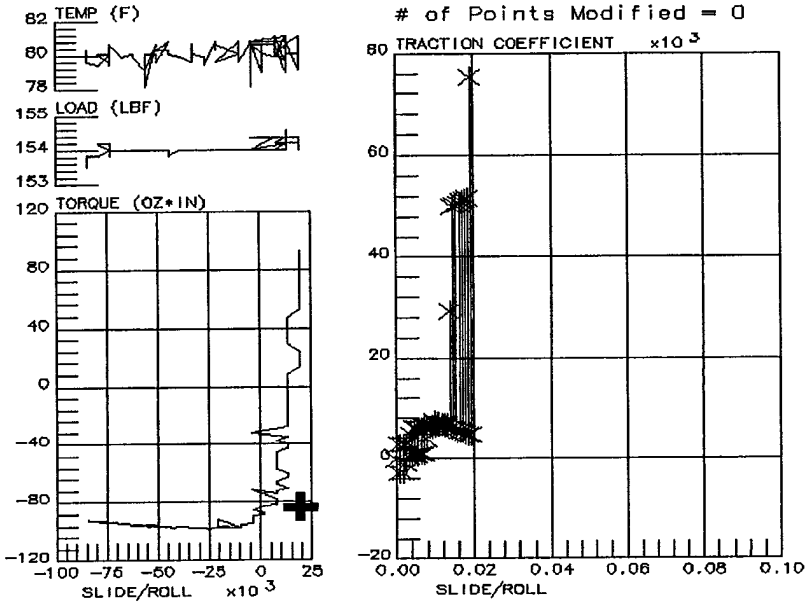
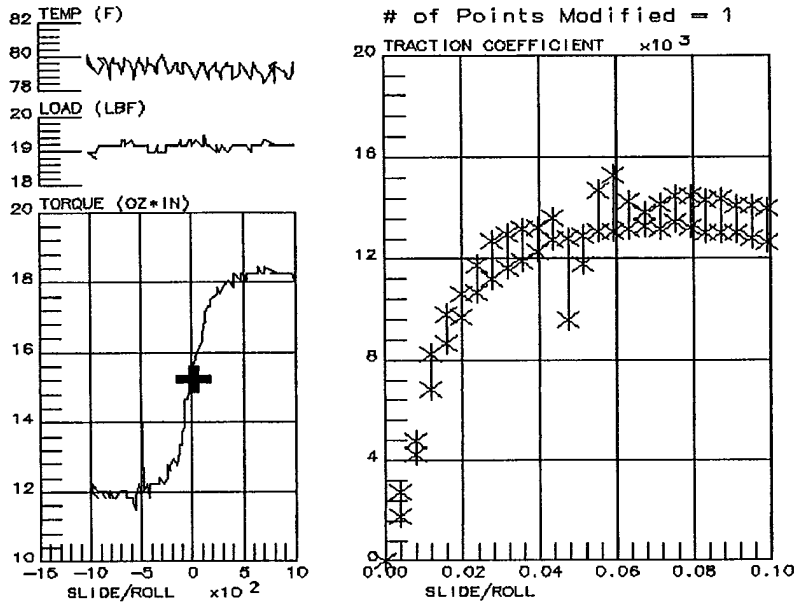


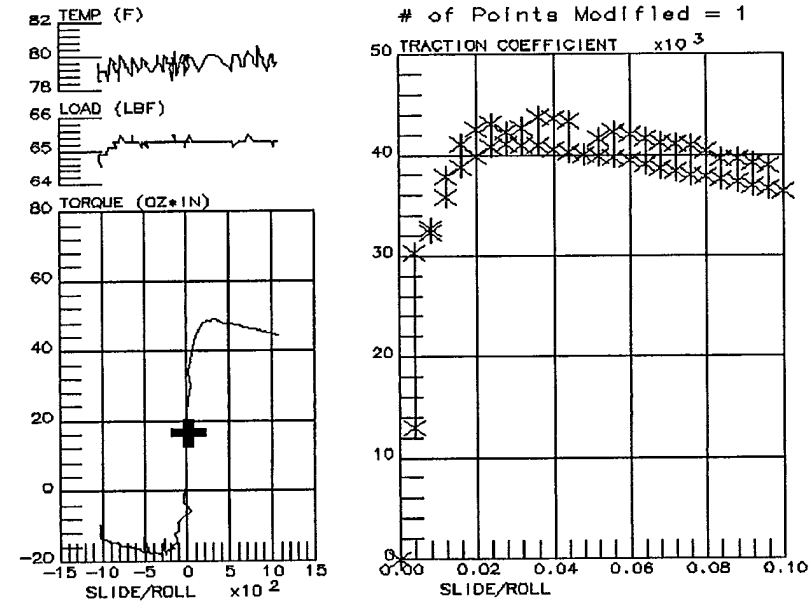
BO 81-288 ApiezonC+5%Bardhal(VacKote) #37
80F 154LBF 1273RPM 6 FILE: 81-288bo80



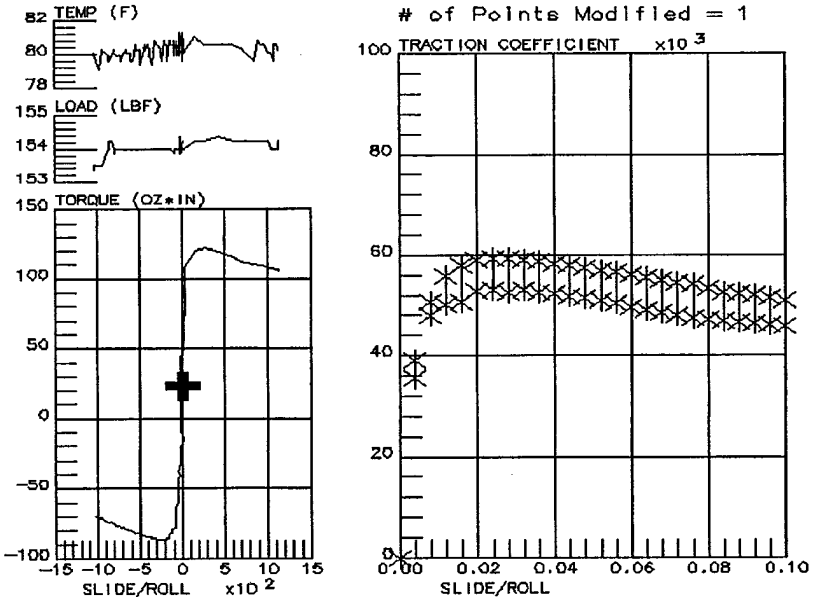
BO 81-288 ApiezonC+5%Bardhal(VacKote) #38
80F 19LBF 2546RPM 7 FILE: 81-288bo80



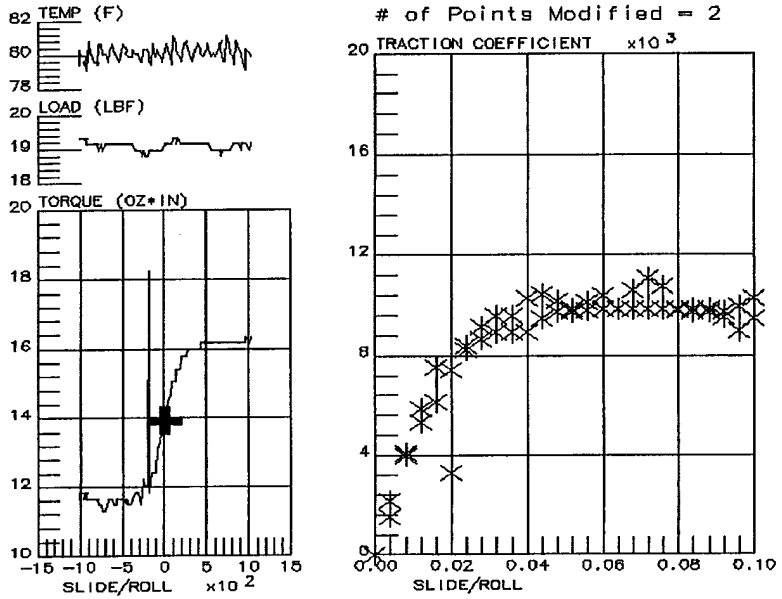
BO 81-288 ApiezonC+5%Bardhal(VacKote) #39
80F 65LBF 2546RPM 8 FILE: 81-288bo80



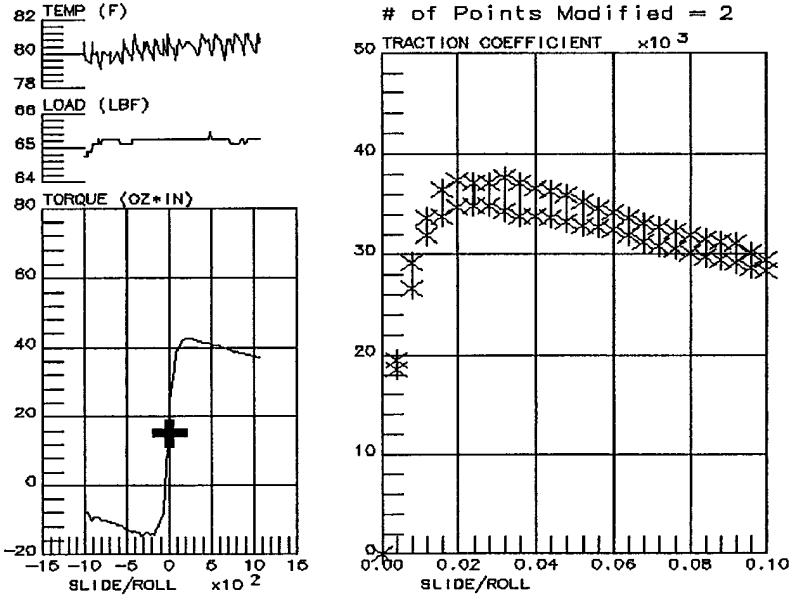
BO 81-288 ApiezonC+5%Bardhal(VacKote) #40
80F 154LBF 2546RPM 9 FILE: 81-288bo80



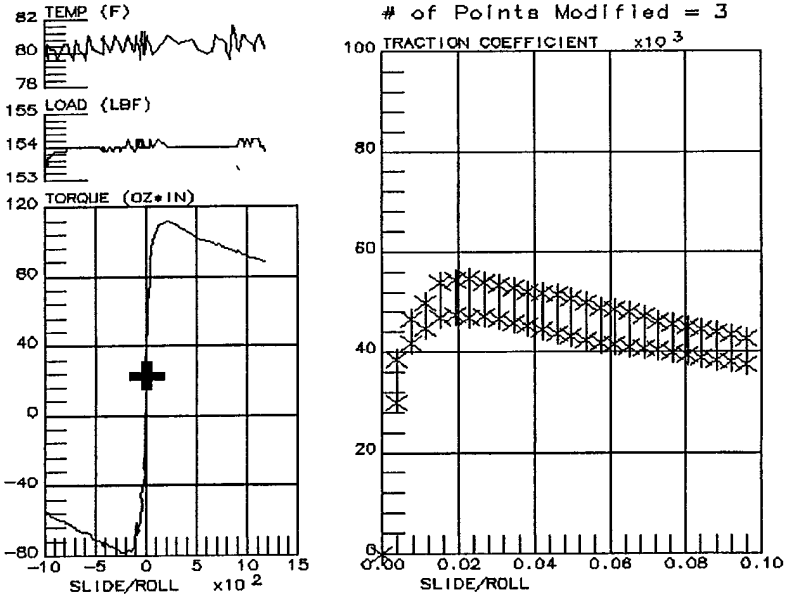
BO 81-288 ApiezonC+5%Bardhal(VacKote) #41
80F 19LBF 5093RPM 10 FILE: 81-288bo80



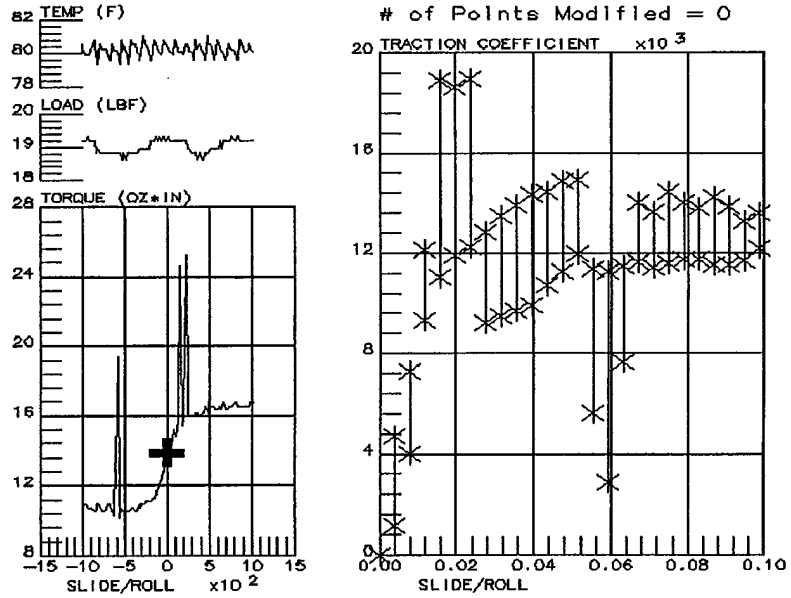
BO 81-288 ApiezonC+5%Bardhal(VacKote) #42
80F 65LBF 5093RPM 11 FILE: 81-288bo80



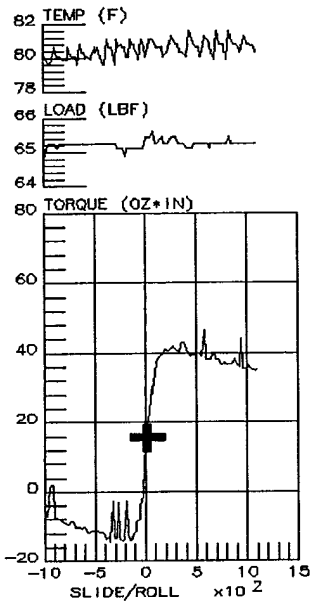
BO 81-288 ApiezonC+5%Bardhal(VacKote) #43
80F 154LBF 5093RPM 12 FILE: 81-288bo80

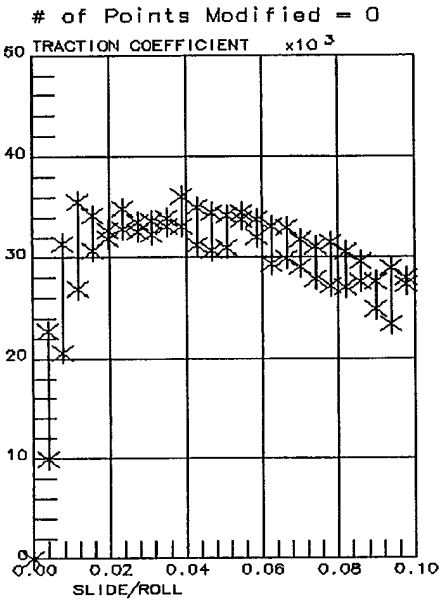


BO 81-288 ApiezonC+5%Bardhal(VacKote) #44
80F 19LBF 7639RPM 13 FILE: 81-288bo80

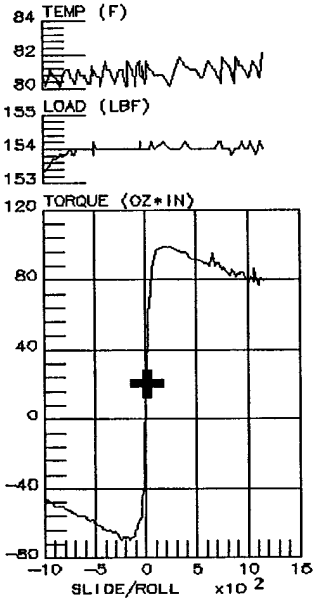


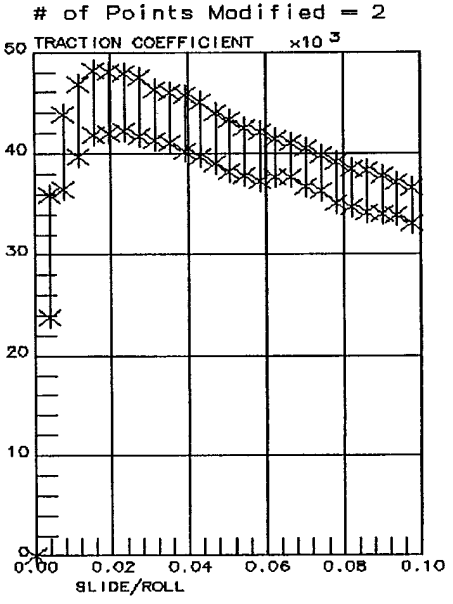
BO 81-288 ApiezonC+5%Bardhal(VacKote) #45
80F 65LBF 7639RPM 14 FILE: 81-288bo80



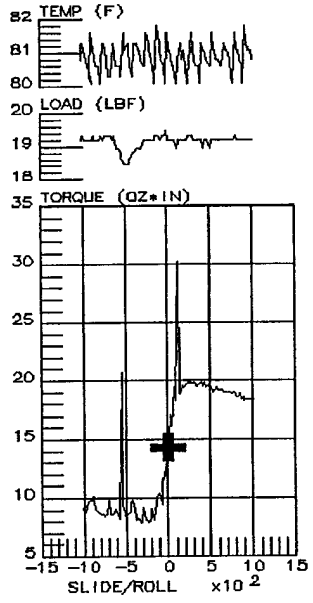


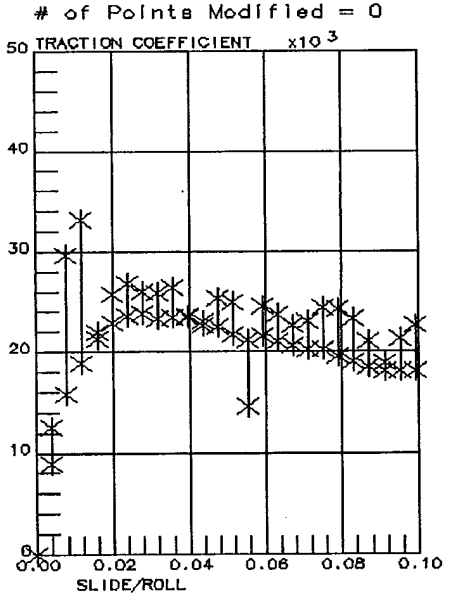
BO 81-288 ApiezonC+5%Bardhal(VacKote) #46
80F 154LBF 7639RPM 15 FILE: 81-288bo80



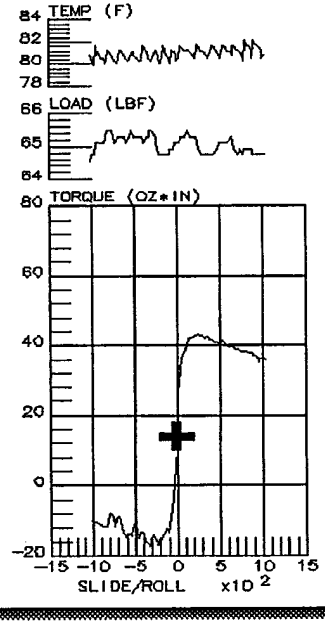


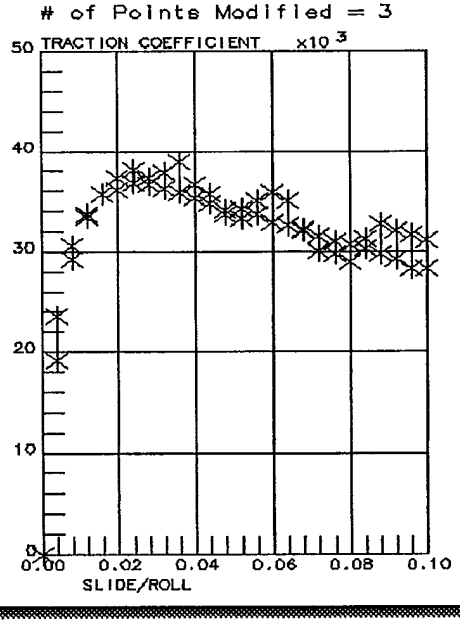
BO 81-288 ApiezonC+5%Bardhal(VacKote) #47
80F 19LBF 10186RPM 16 FILE: 81-288bo80



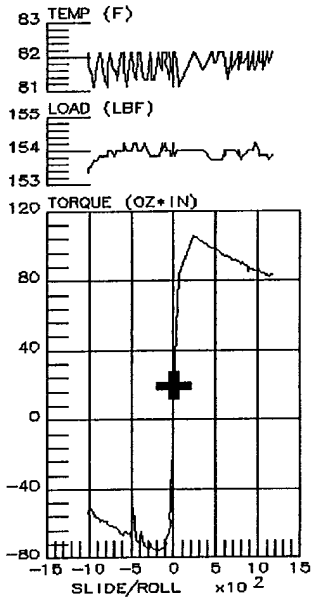


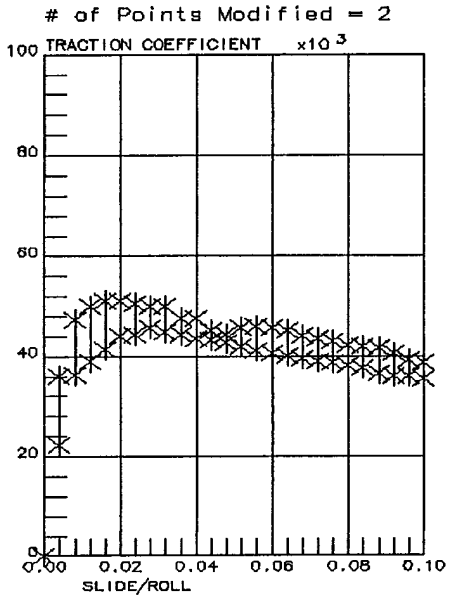
BO 81-288 ApiezonC+5%Bardhal(VacKote) #48
80F 65LBF 10186RPM 17 FILE: 81-288bo80



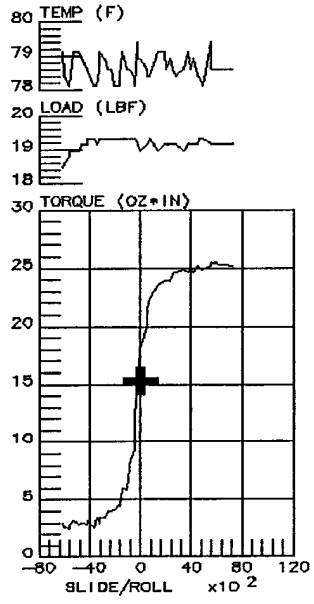


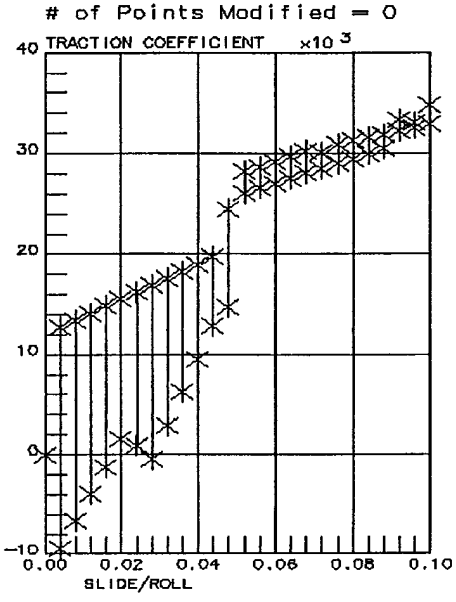
BO 81-288 ApiezonC+5%Bardhal(VacKote) #49
80F 154LBF 10186RPM 18 FILE: 81-288bo80



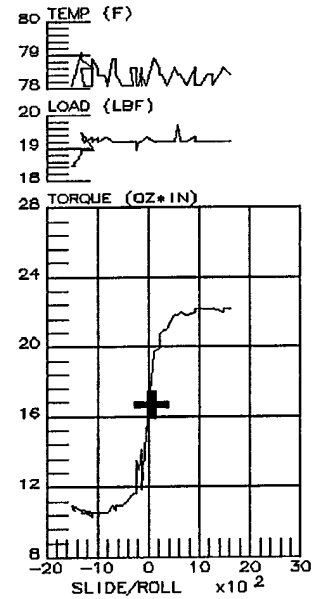


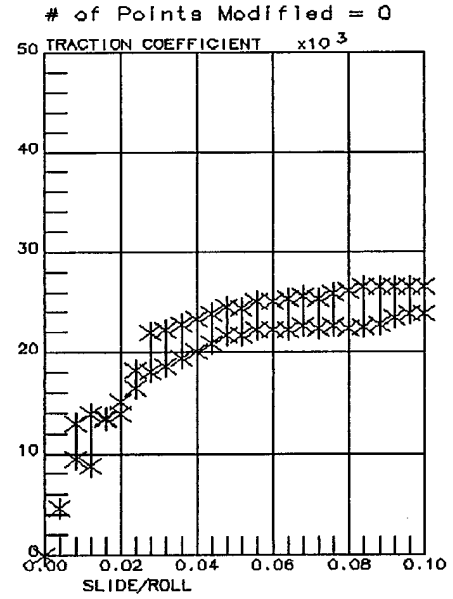
BO 81-288 ApiezonC+5%Bardhal(VacKote) #50
80F 19LBF 318RPM 1 FILE: 81-288bo80



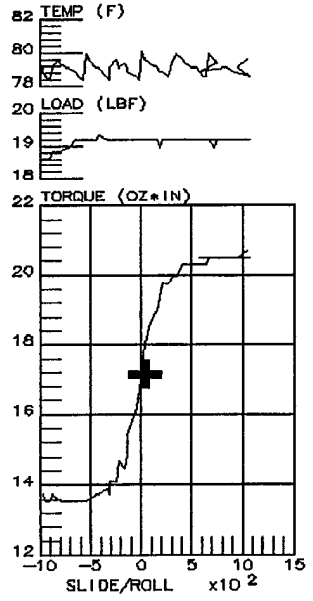


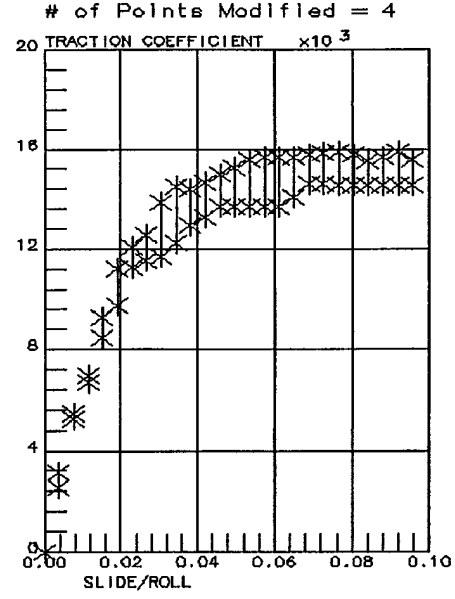
BO 81-288 ApiezonC+5%Bardhal(VacKote) #51
80F 19LBF 1273RPM 2 FILE: 81-288bo80



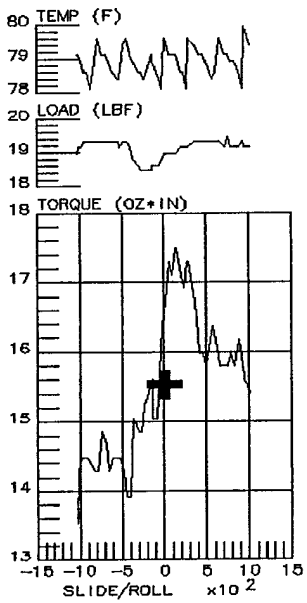


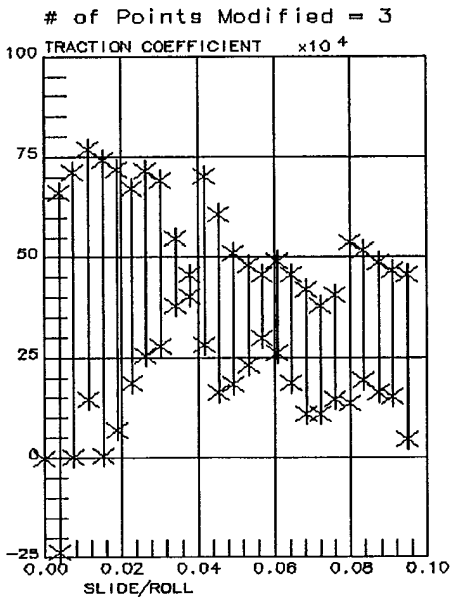
BO 81-288 ApiezonC+5%Bardhal(VacKote) #52
80F 19LBF 2546RPM 3 FILE: 81-288bo80



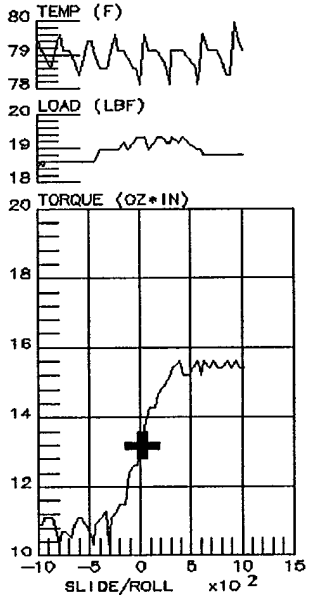


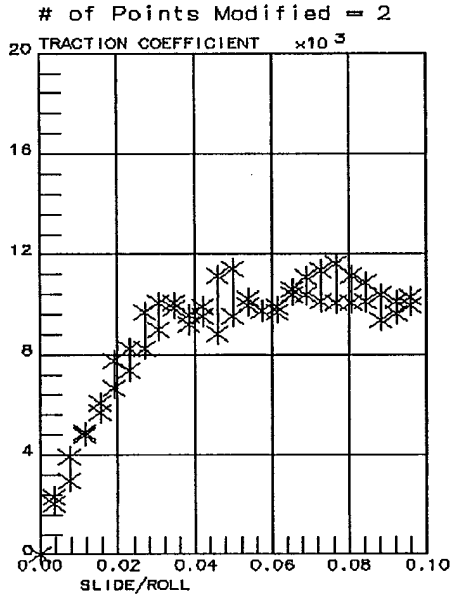
BO 81-288 ApiezonC+5%Bardhal(VacKote) #53
80F 19LBF 5093RPM 4 FILE: 81-288bo80



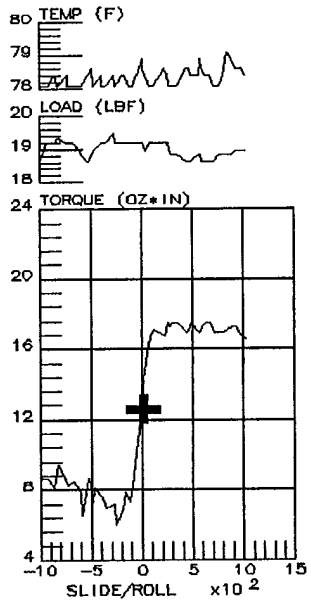


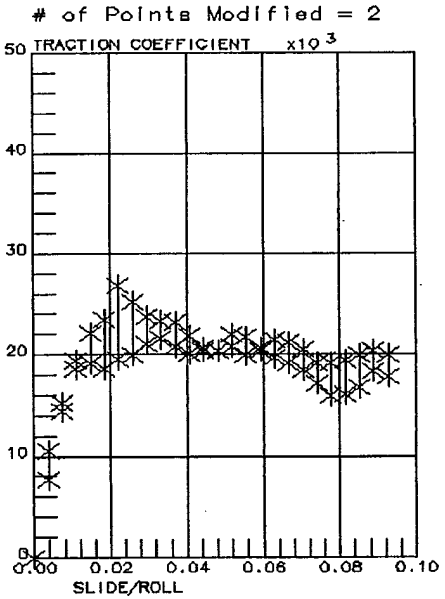
BO 81-288 ApiezonC+5%Bardhal(VacKote) #54
80F 19LBF 7639RPM 5 FILE: 81-288bo80



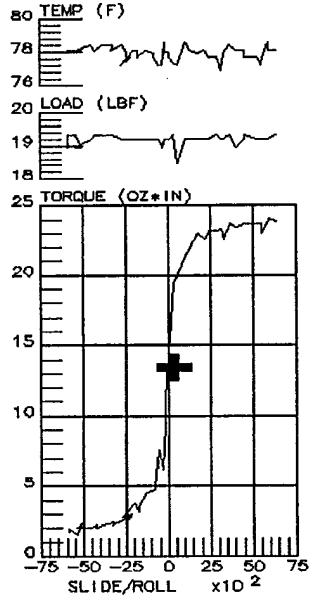


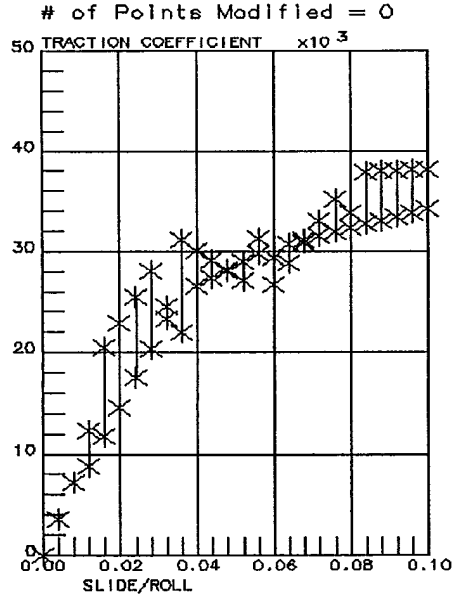
BO 81-288 ApiezonC+5%Bardhal(VacKote) #55
80F 19LBF 10186RPM 6 FILE: 81-288bo80



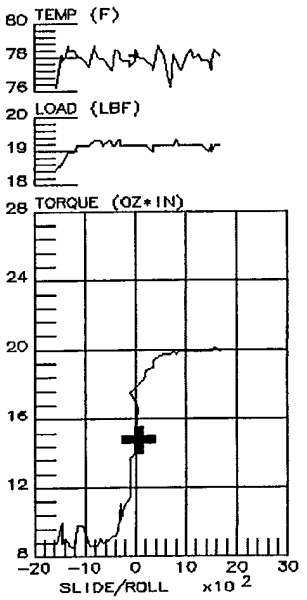


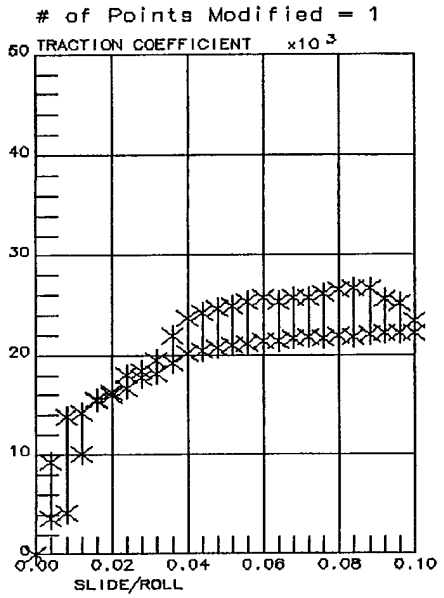
BO 81-288 ApiezonC+5%Bardhal(VacKote) #56
80F 19LBF 318RPM 1 FILE: 81-288bo80



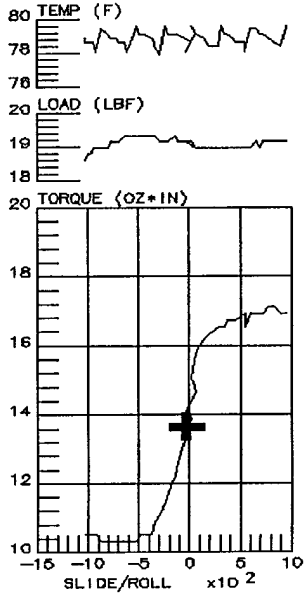


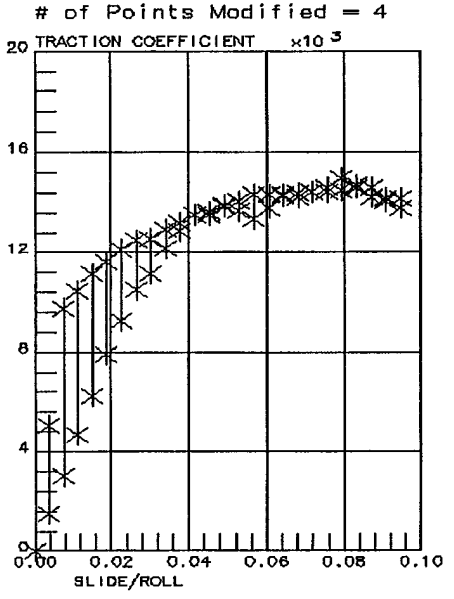
BO 81-288 ApiezonC+5%Bardhal(VacKote) #57
80F 19LBF 1273RPM 2 FILE: 81-288bo80



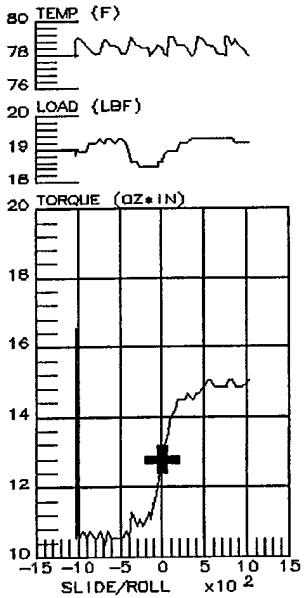


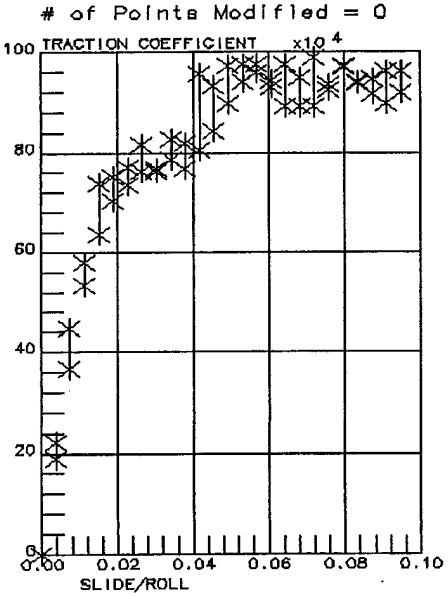
BO 81-288 ApiezonC+5%Bardhal(VacKote) #58
80F 19LBF 2546RPM 3 FILE: 81-288bo80



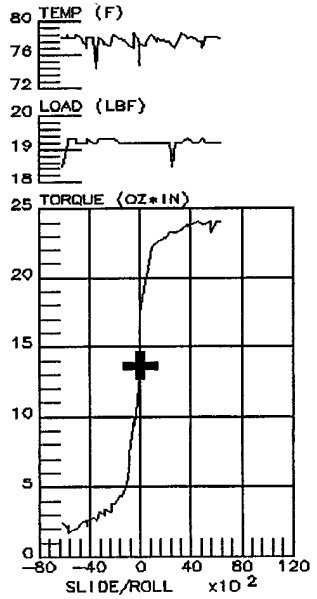


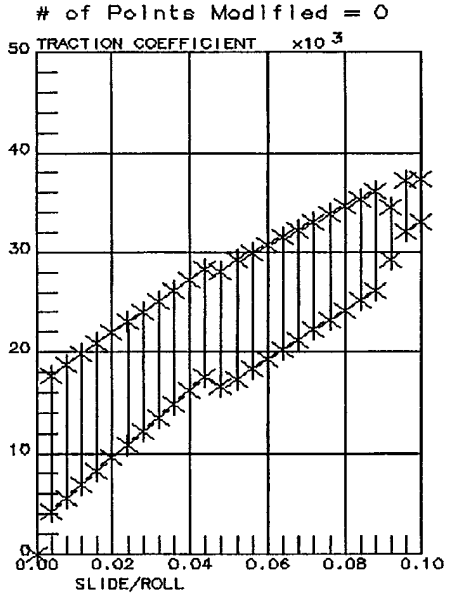
BO 81-288 ApiezonC+5%Bardhal(VacKote) #59
80F 19LBF 5093RPM 4 FILE: 81-288bo80



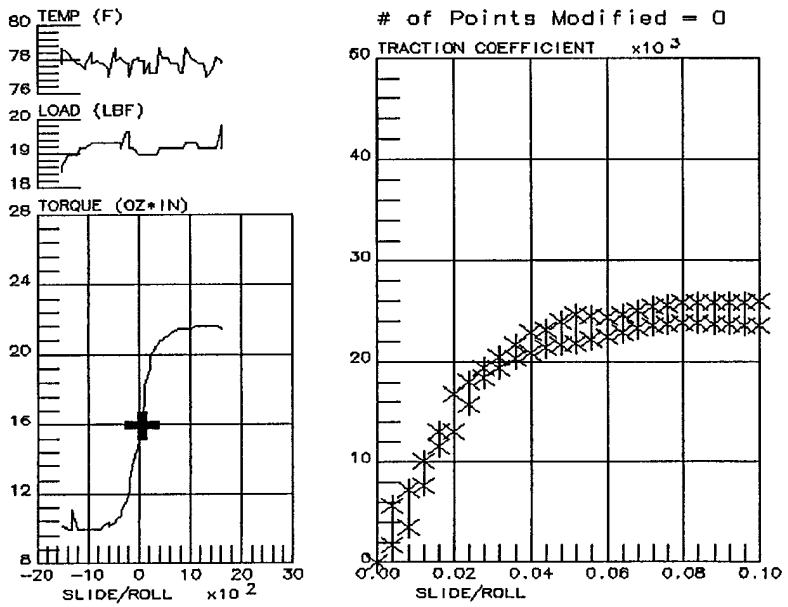


BO 81-288 ApiezonC+5%Bardhal(VacKote) #60
80F 19LBF 318RPM 1 FILE: 81-288bo80

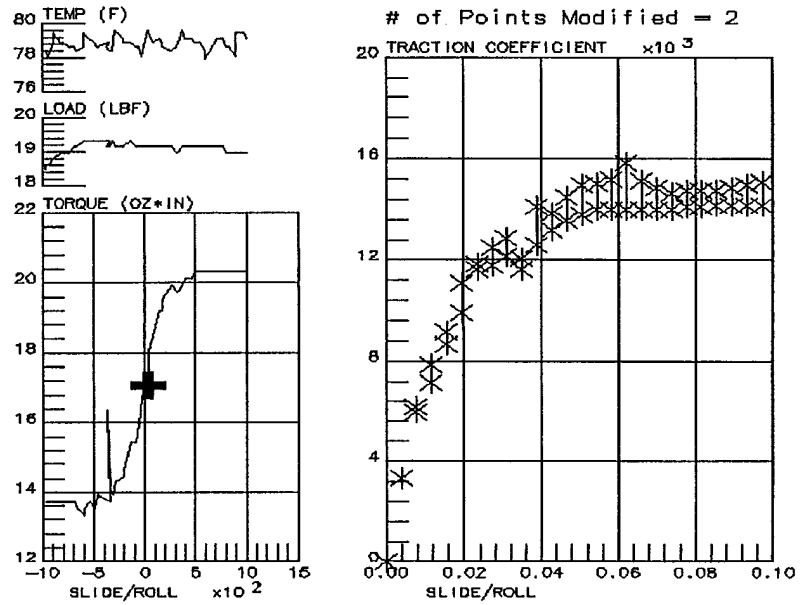




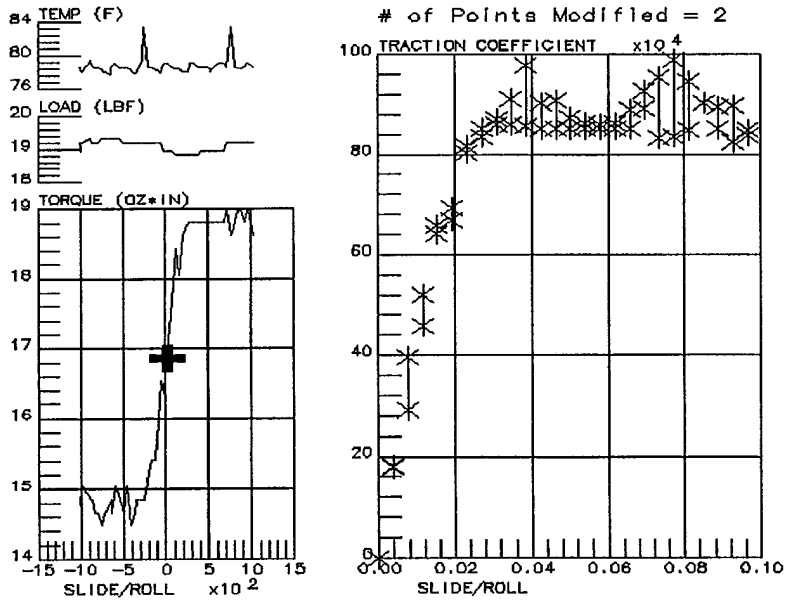
BO 81-288 ApiezonC+5%Bardhal(VacKote) #61
80F 19LBF 1273RPM 2 FILE: 81-288bo80



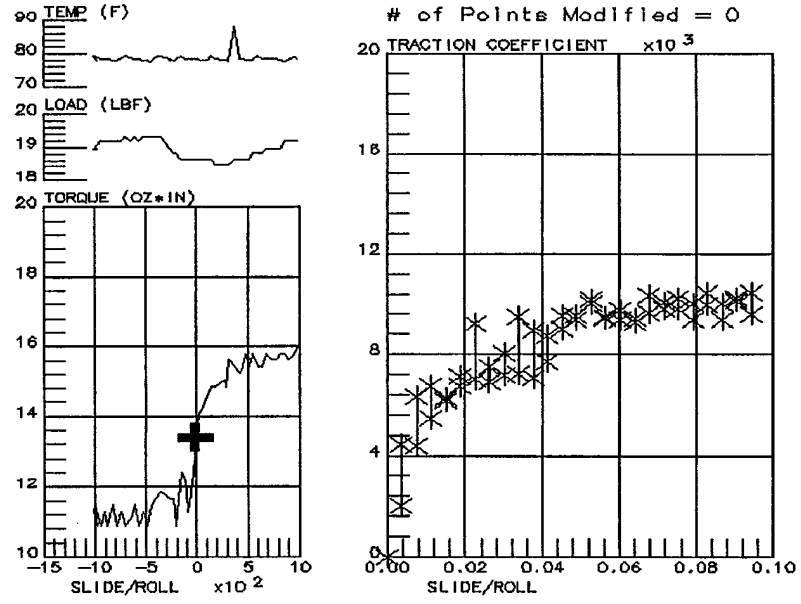
BO 81-288 ApiezonC+5%Bardhal(VacKote) #62
80F 19LBF 2546RPM 3 FILE: 81-288bo80



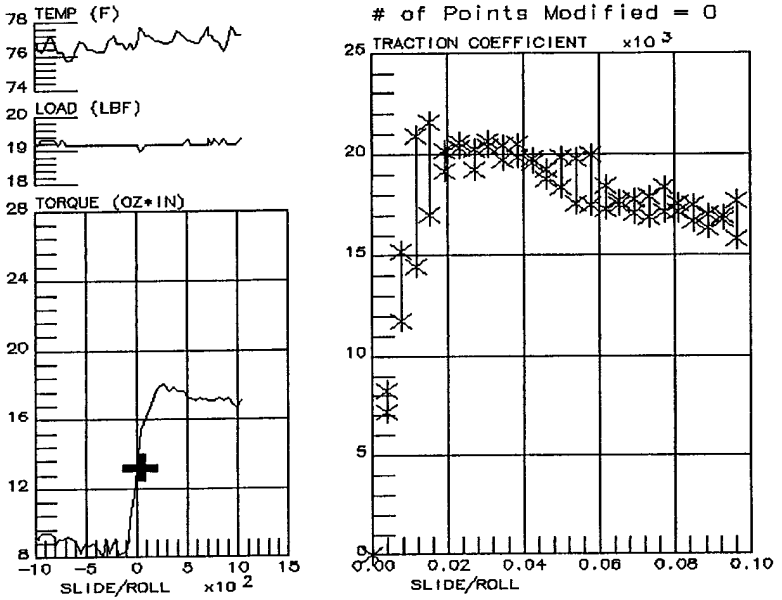
BO 81-288 ApiezonC+5%Bardhal(VacKote) #63
80F 19LBF 5093RPM 4 FILE: 81-288bo80



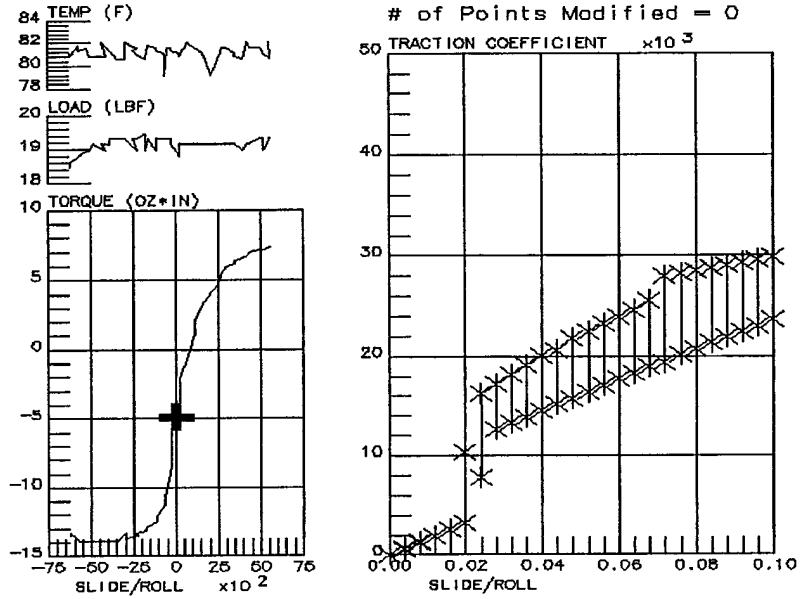
BO 81-288 ApiezonC+5%Bardhal(VacKote) #64
80F 19LBF 7639RPM 5 FILE: 81-288bo80



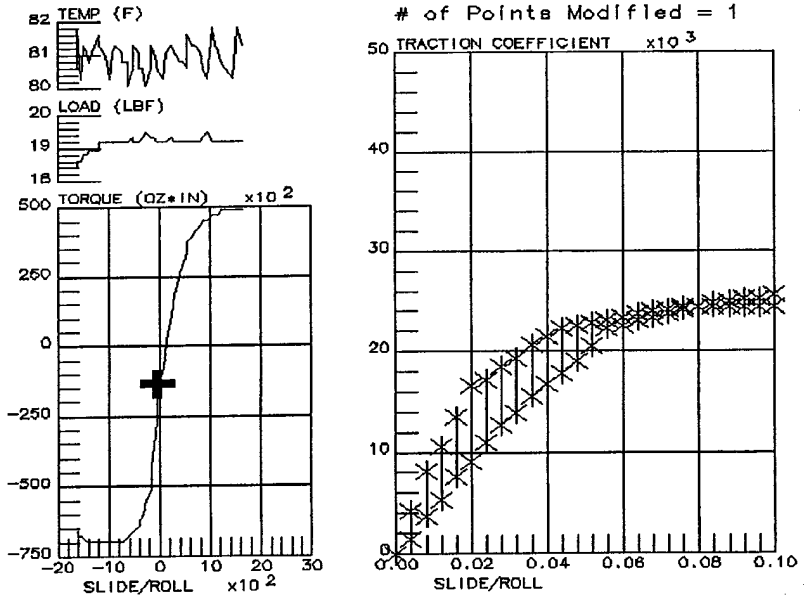
BO 81-288 ApiezonC+5%Bardhal(VacKote) #65
80F 19LBF 10186RPM 6 FILE: 81-288bo80



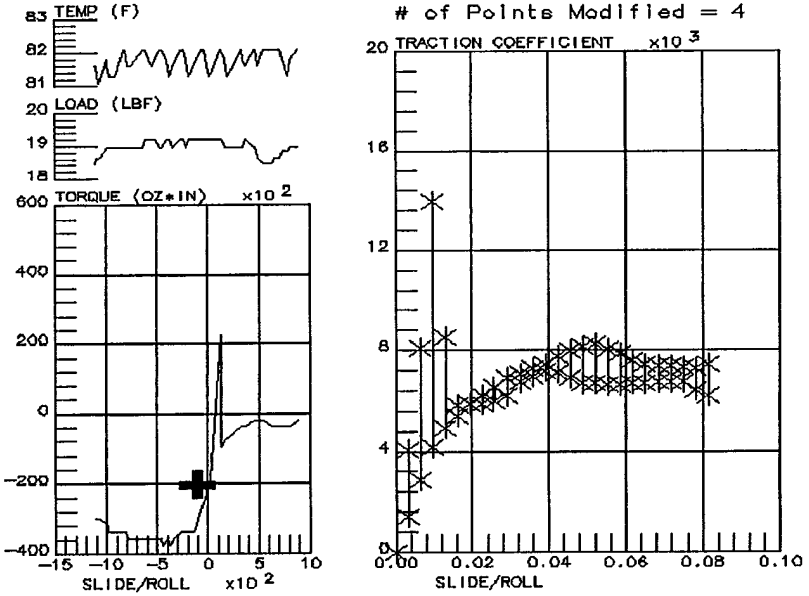
BO 81-288 ApiezonC+5%Bardhal(VacKote) #66
80F 19LBF 318RPM 1 FILE: 81-288bo80



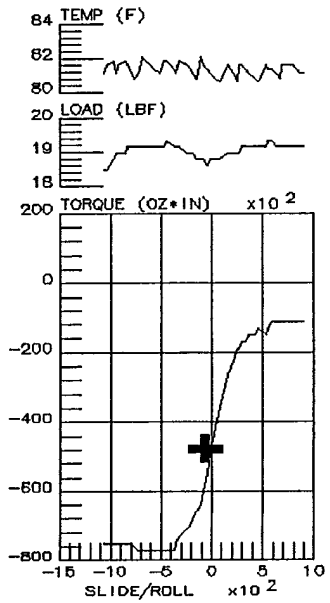
BO 81-288 ApiezonC+5%Bardhal(VacKote) #67
80F 19LBF 1273RPM 2 FILE: 81-288bo80

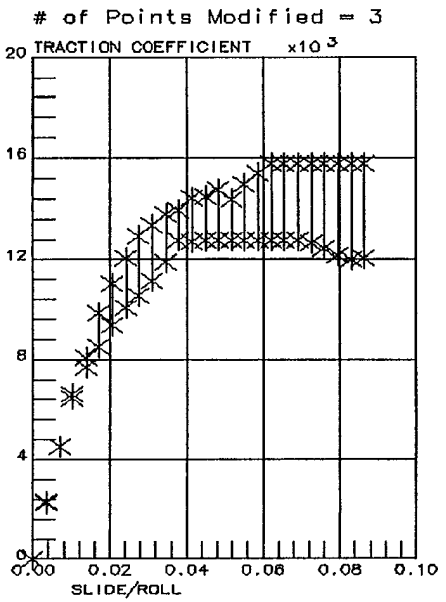


BO 81-288 ApiezonC+5%Bardhal(VacKote) #68
80F 19LBF 5093RPM 4 FILE: 81-288bo80

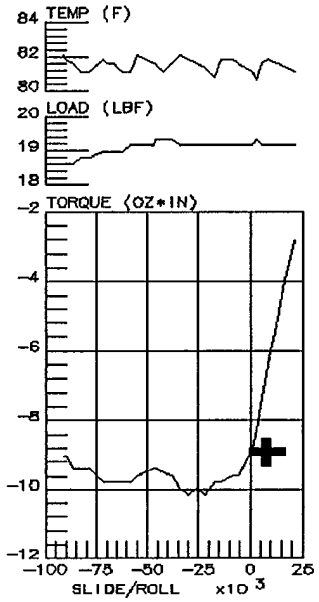


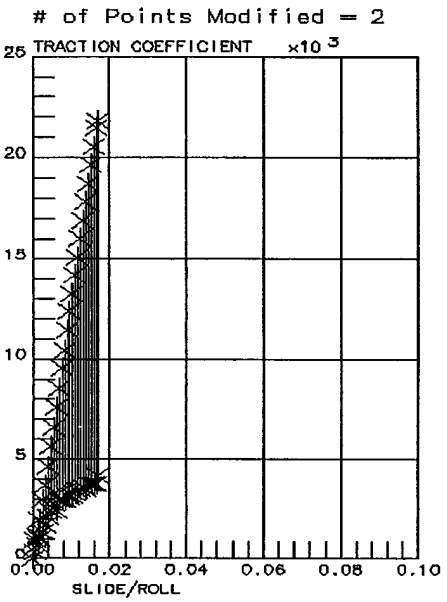
BO 81-288 ApiezonC+5%Bardhal(VacKote) #69
80F 19LBF 7639RPM 5 FILE: 81-288bo80



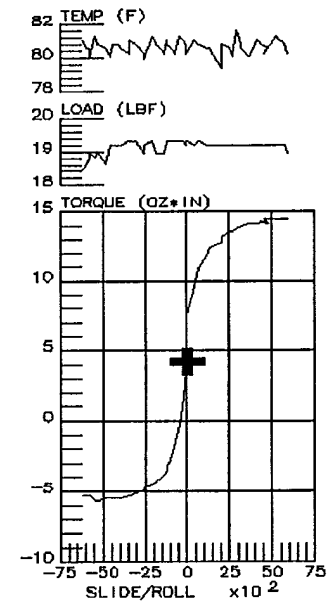


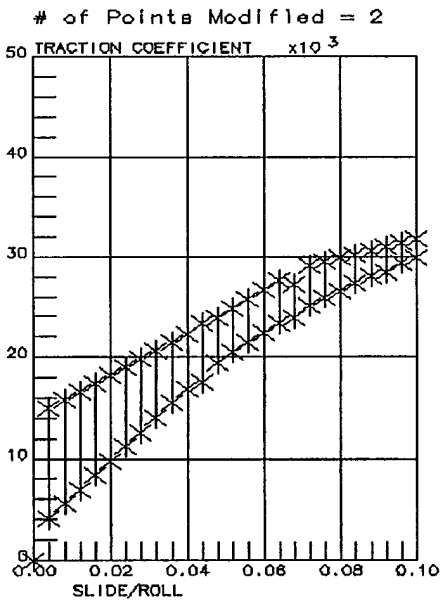
BO 81-288 ApiezonC+5%Bardhal(VacKote) #70
80F 19LBF 10186RPM 6 FILE: 81-288bo80



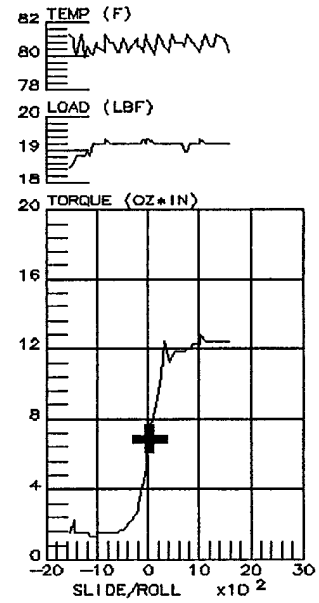


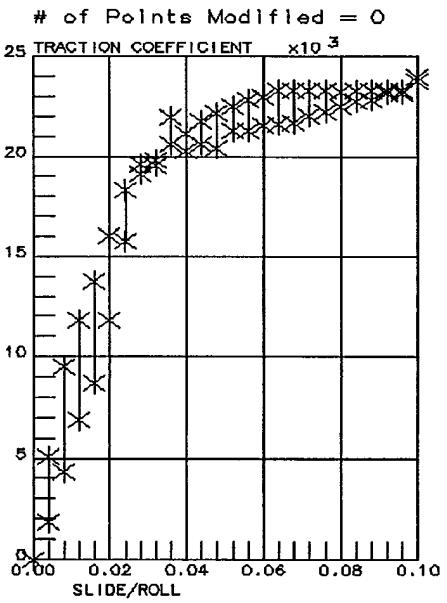
BO 81-288 ApiezonC+5%Bardhal(VacKote) #71
80F 19LBF 318RPM 1 FILE: 81-288bo80



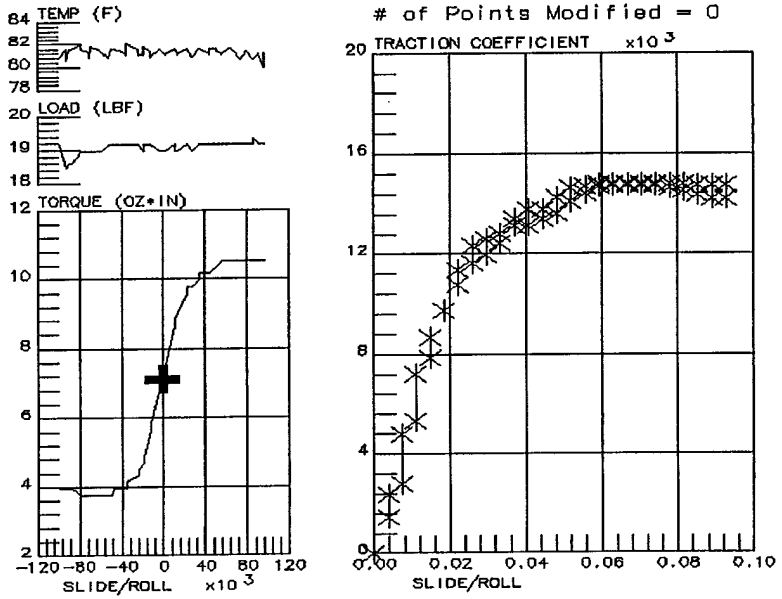


BO 81-288 ApiezonC+5%Bardhal(VacKote) #72
80F 19LBF 1273RPM 2 FILE: 81-288bo80

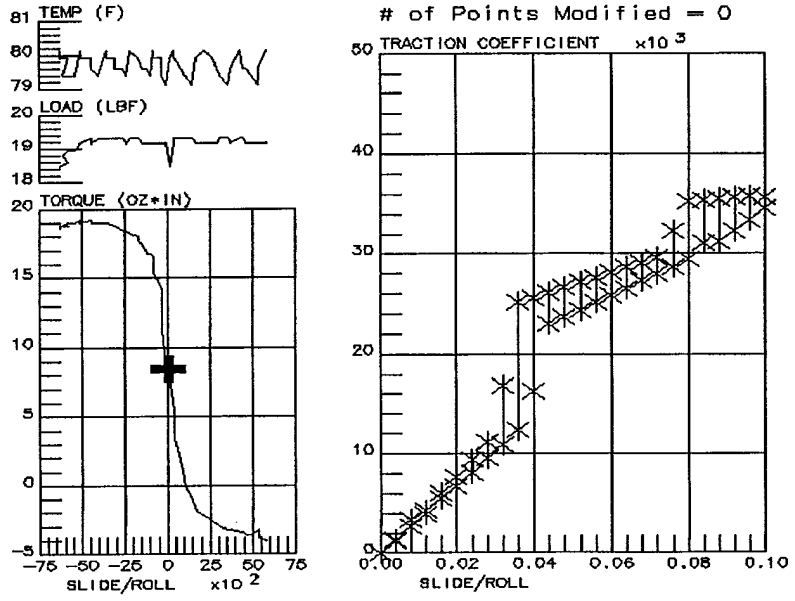




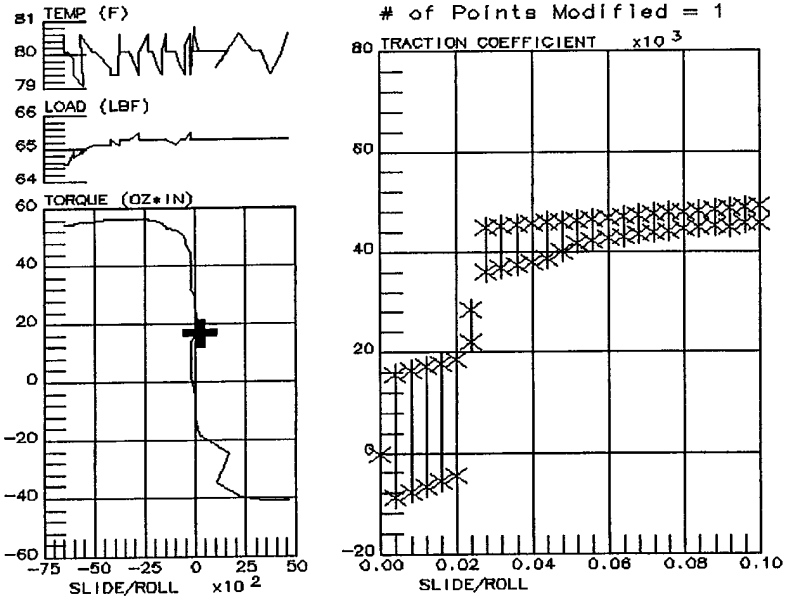
BO 81-288 ApiezonC+5%Bardhal(VacKote) #73
80F 19LBF 2546RPM 3 FILE: 81-288bo80



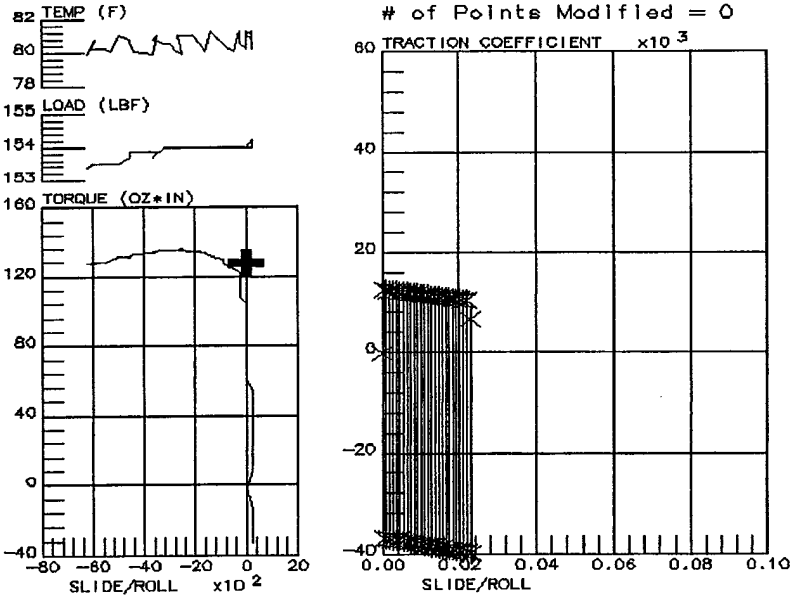
BO 81-288 ApiezonC+5%Bardhal(VacKote) #74
80F 19LBF 318RPM 1 FILE: 81-288bo80



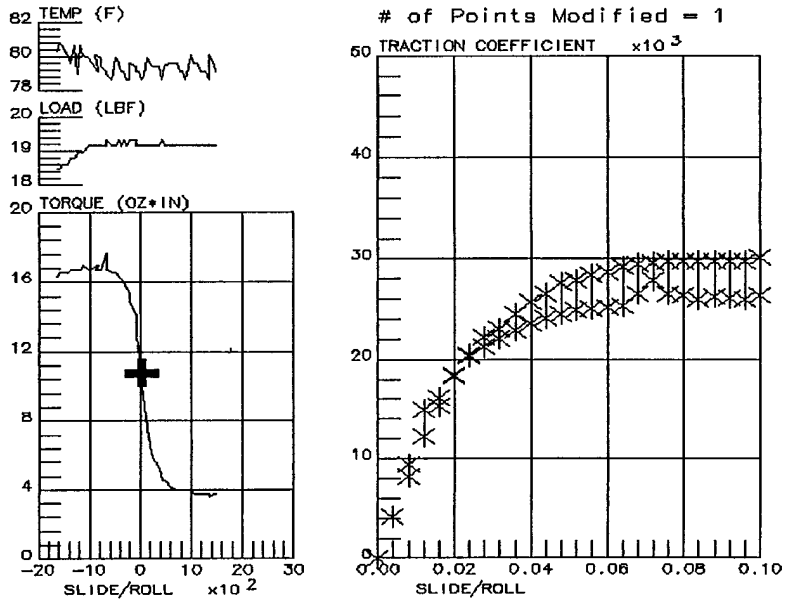
BO 81-288 ApiezonC+5%Bardhal(VacKote) #75
80F 65LBF 318RPM 2 FILE: 81-288bo80



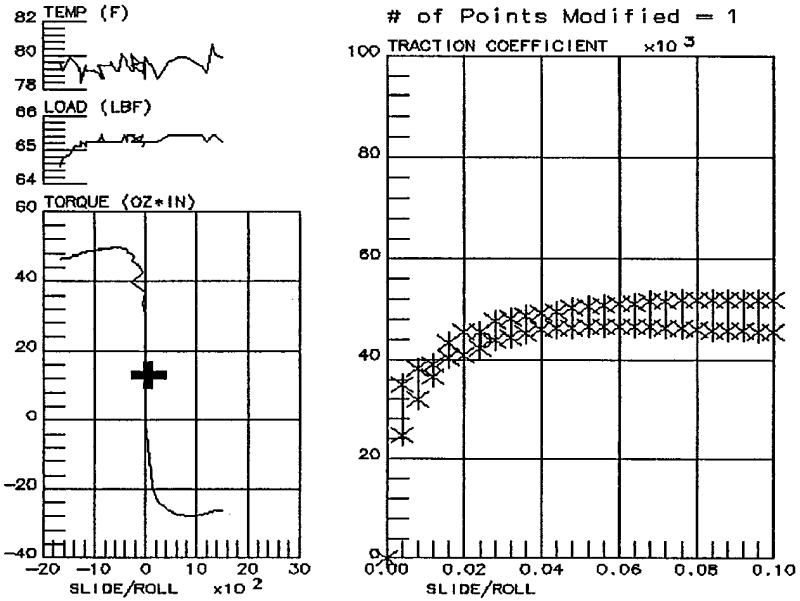
BO 81-288 ApiezonC+5%Bardhal(VacKote) #76
80F 154LBF 318RPM 3 FILE: 81-288bo80



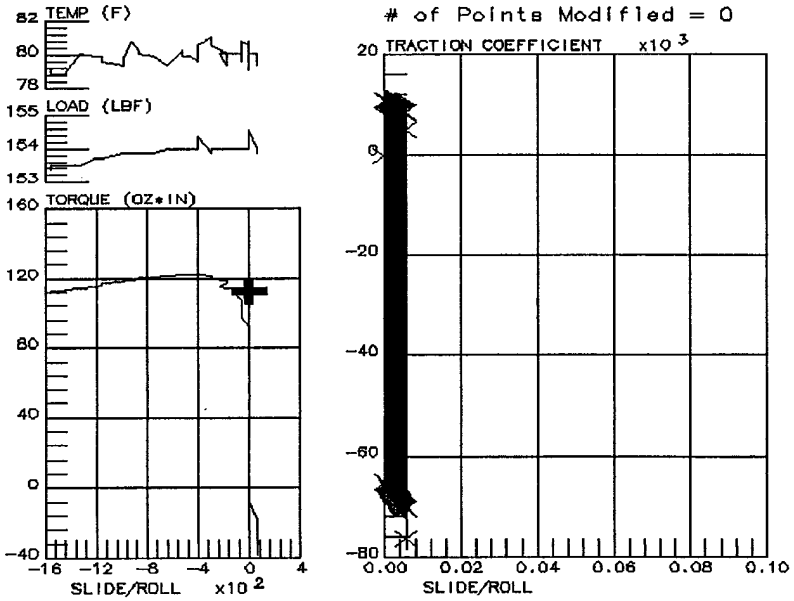
BO 81-288 ApiezonC+5%Bardhal(VacKote) #77
80F 19LBF 1273RPM 4 FILE: 81-288bo80



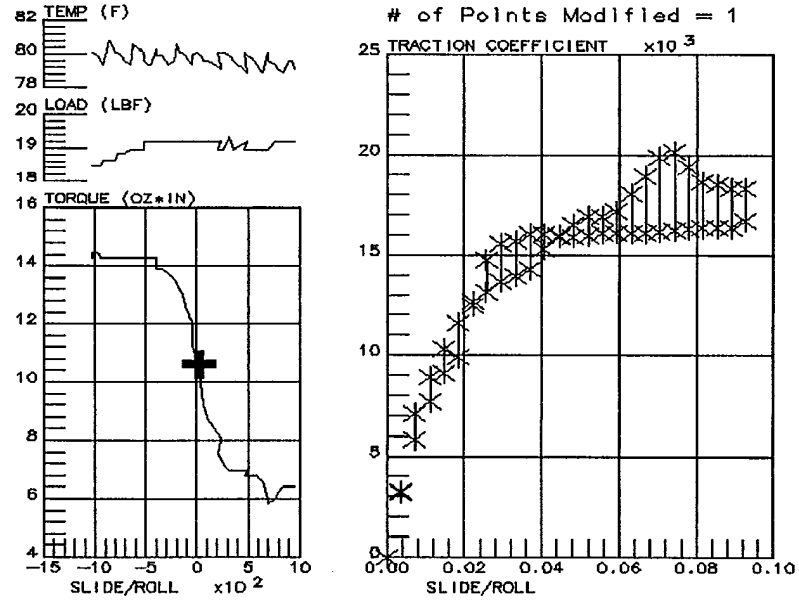
BO 81-288 ApiezonC+5%Bardhal(VacKote) #78
80F 65LBF 1273RPM 5 FILE: 81-288bo80



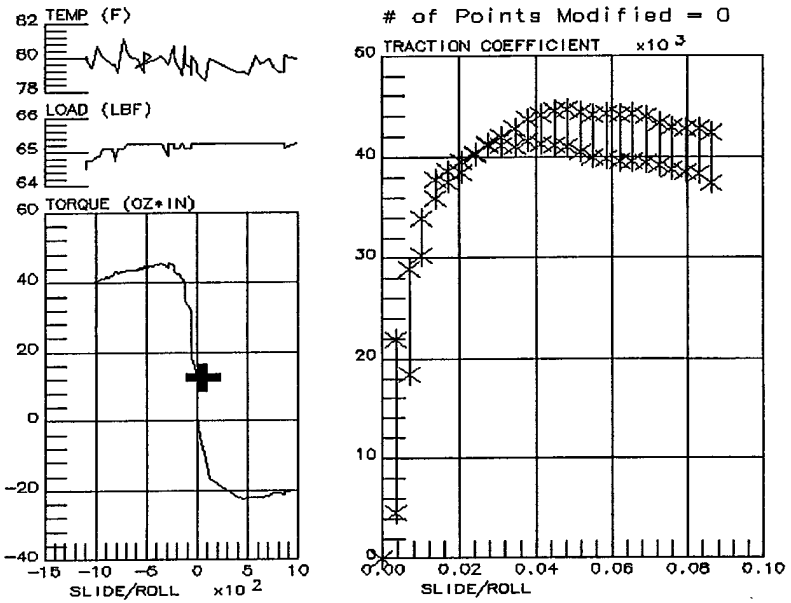
BO 81-288 ApiezonC+5%Bardhal(VacKote) #79
80F 154LBF 1273RPM 6 FILE: 81-288bo80



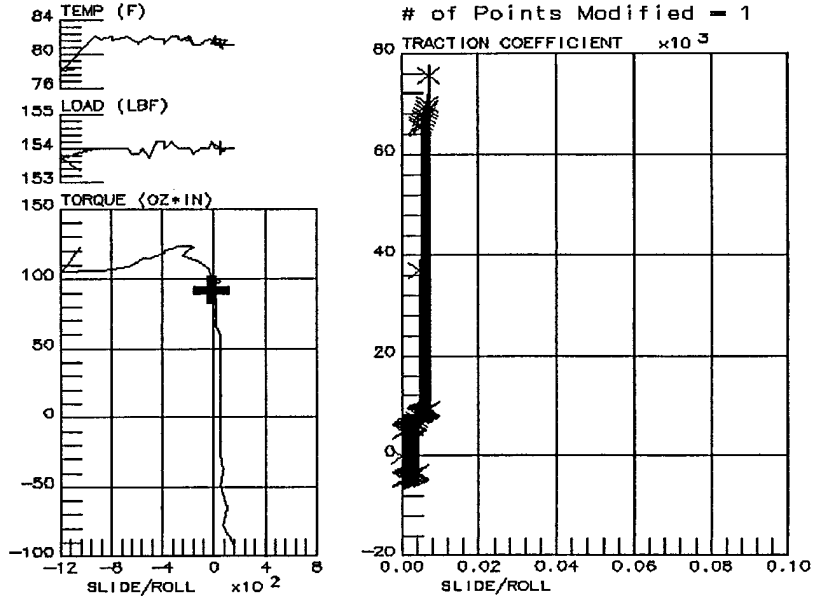
BO 81-288 ApiezonC+5%Bardhal(VacKote) #80
80F 19LBF 2546RPM 7 FILE: 81-288bo80



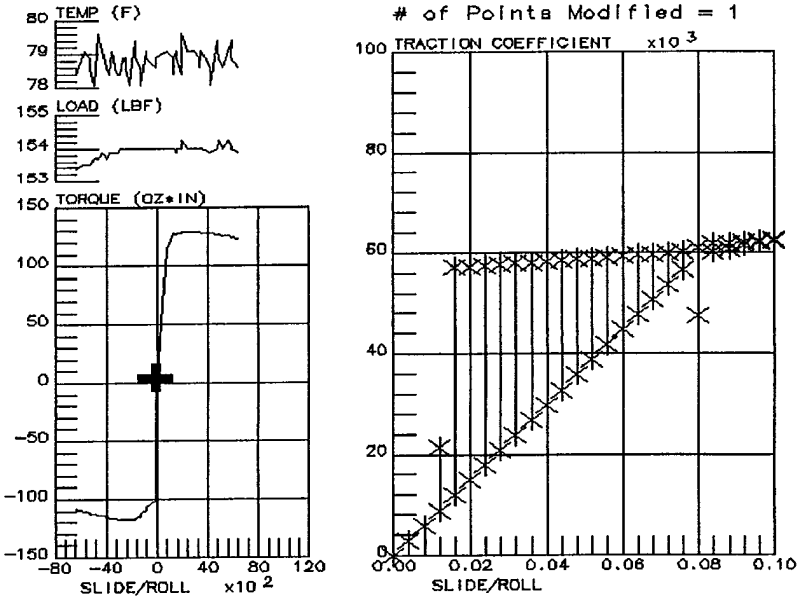
BO 81-288 ApiezonC+5%Bardhal(VacKote) #81
80F 65LBF 2546RPM 8 FILE: 81-288bo80



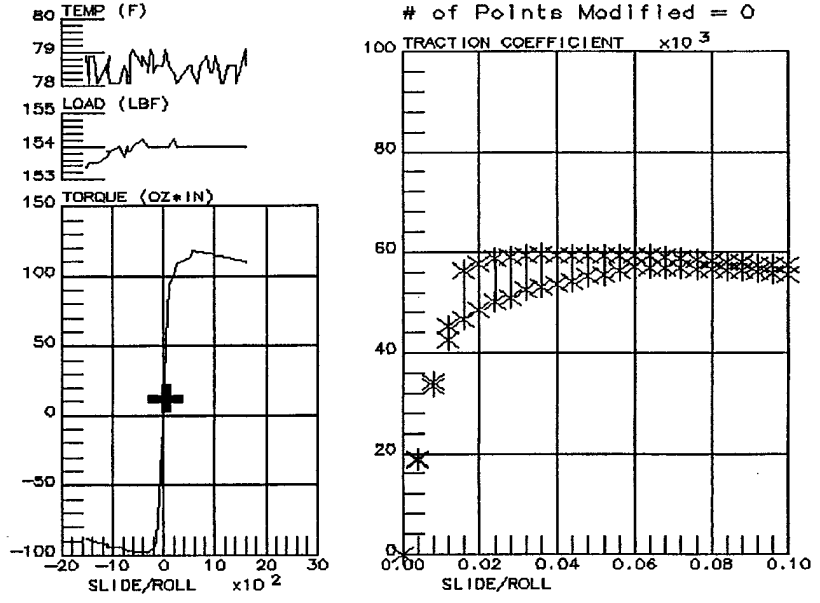
BO 81-288 ApiezonC+5%Bardhal(VacKote) #82
80F 154LBF 2546RPM 9 FILE: 81-288bo80



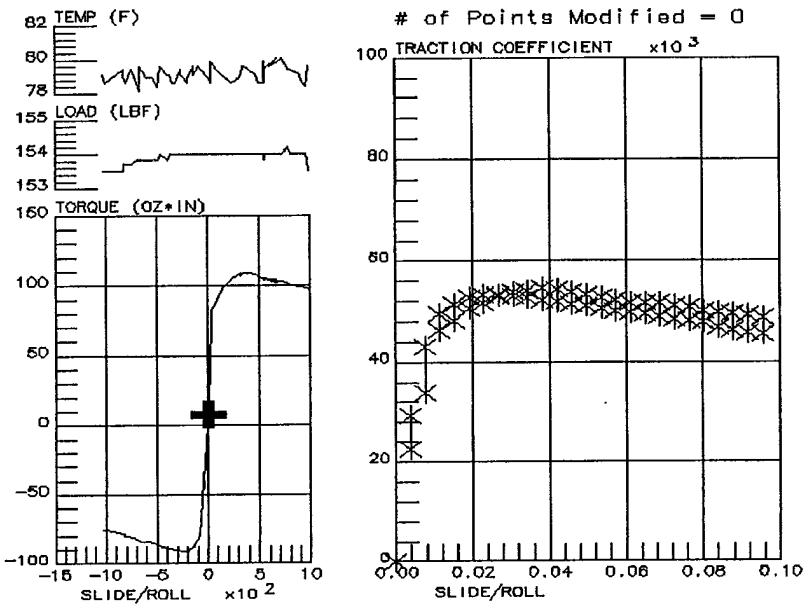
BO 81-288 ApiezonC+5%Bardhal(VacKote) #83
80F 154LBF 318RPM 1 FILE: 81-288bo80



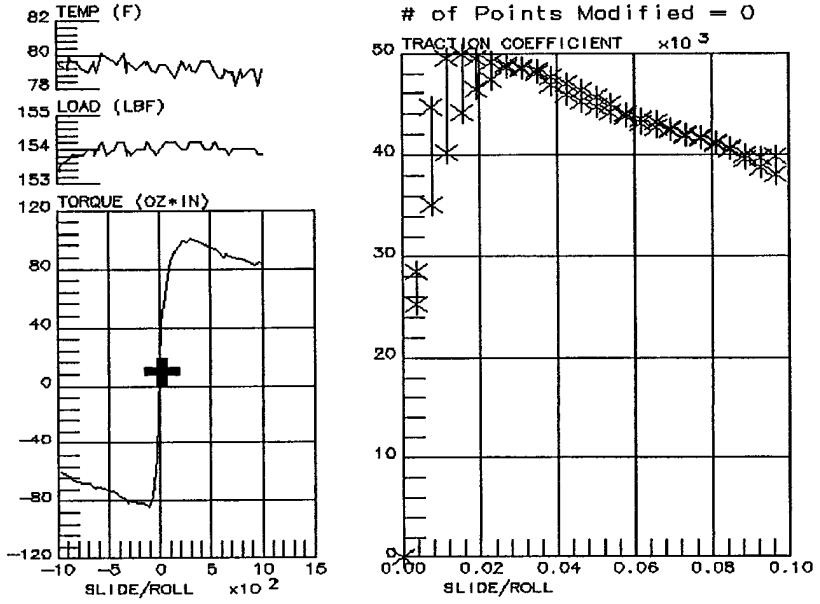
BO 81-288 ApiezonC+5%Bardhal(VacKote) #84
80F 154LBF 1273RPM 2 FILE: 81-288bo80



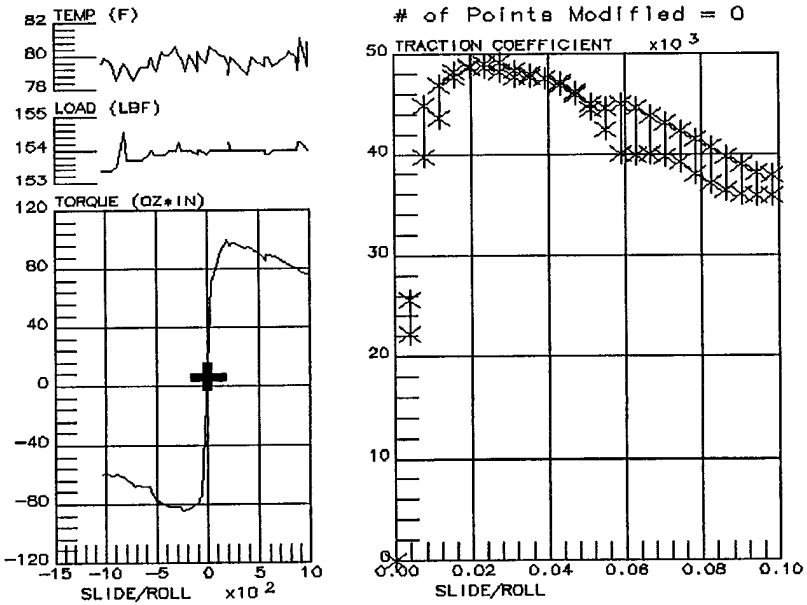
BO 81-288 ApiezonC+5%Bardhal(VacKote) #85
80F 154LBF 2546RPM 3 FILE: 81-288bo80



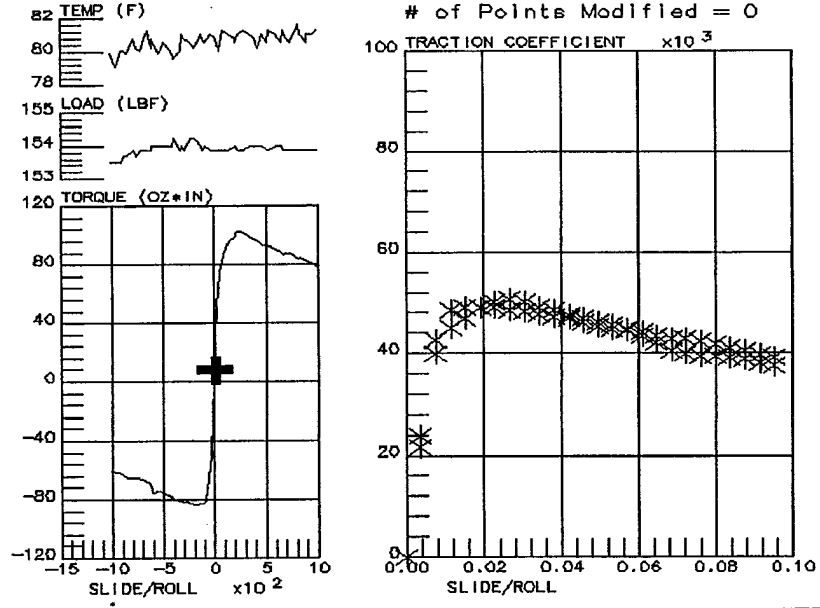
BO 81-288 ApiezonC+5%Bardhal(VacKote) #86
80F 154LBF 5093RPM 4 FILE: 81-288bo80



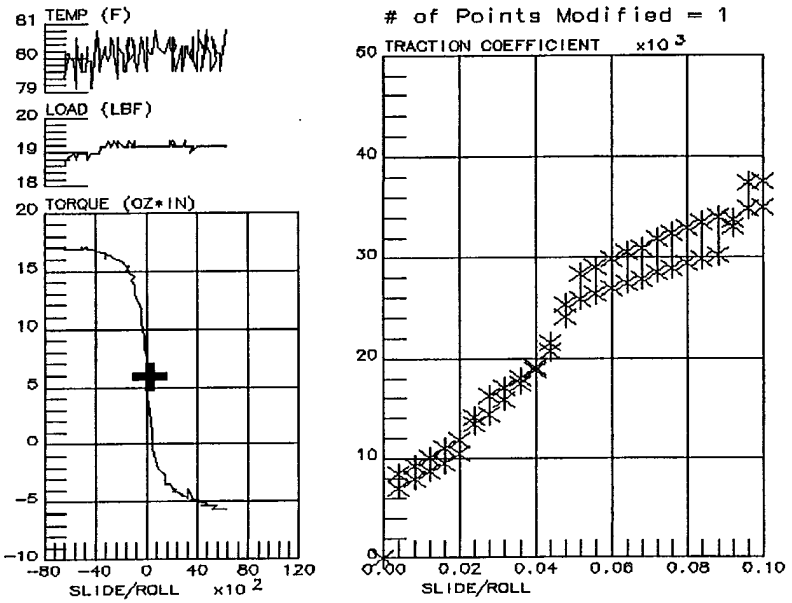
BO 81-288 ApiezonC+5%Bardhal(VacKote) #87
80F 154LBF 7639RPM 5 FILE: 81-288bo80



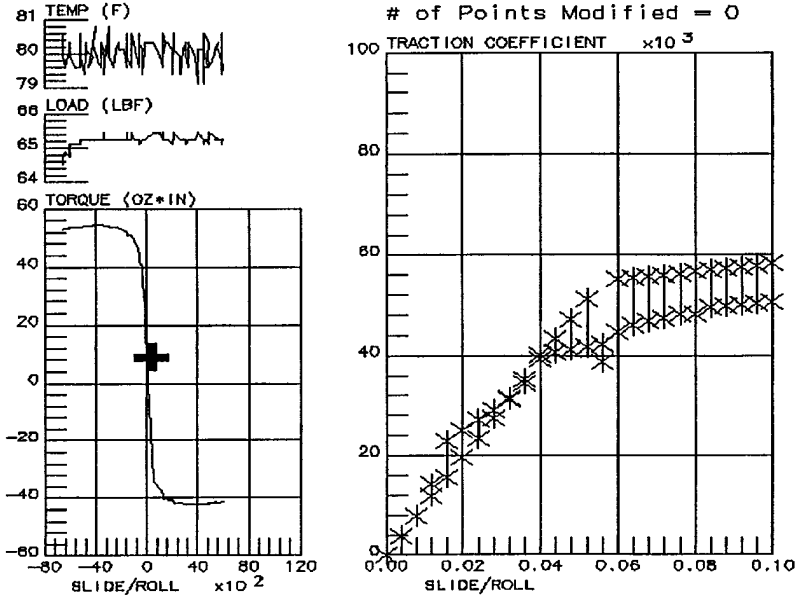
BO 81-288 ApiezonC+5%Bardhal(VacKote) #88
80F 154LBF 10186RPM 6 FILE: 81-288bo80



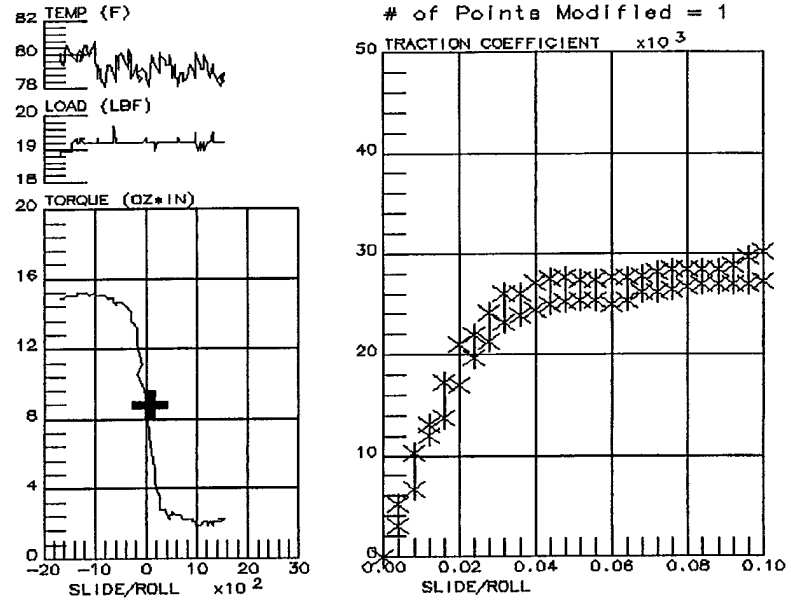
BO 81-288 ApiezonC+5%Bardhal(VacKote) #89
80F 19LBF 318RPM 1 FILE: 81-288bo80



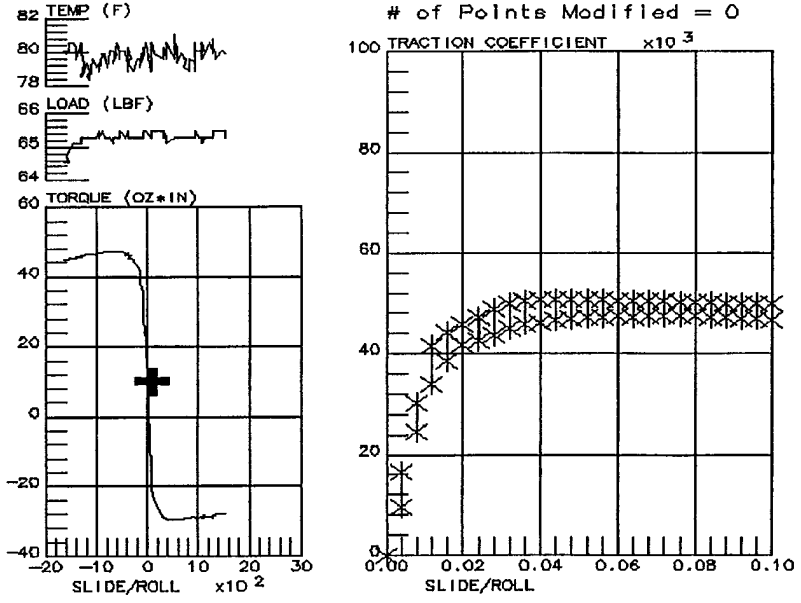
BO 81-288 ApiezonC+5%Bardhal(VacKote) #90
80F 65LBF 318RPM 2 FILE: 81-288bo80



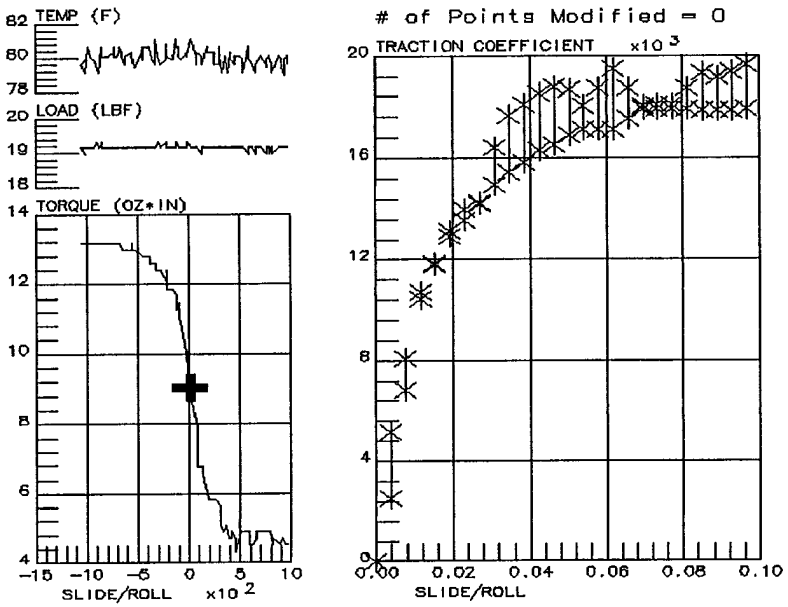
BO 81-288 ApiezonC+5%Bardhal(VacKote) #91
80F 19LBF 1273RPM 3 FILE: 81-288bo80



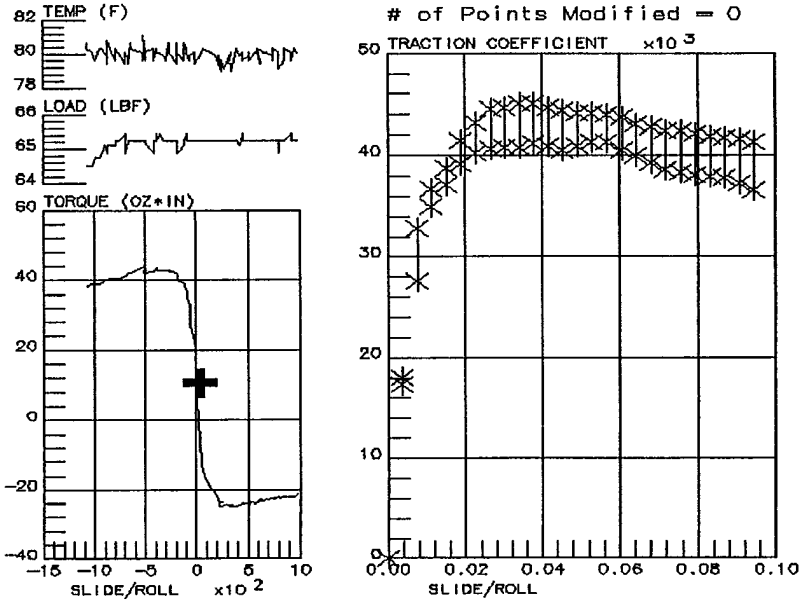
BO 81-288 ApiezonC+5%Bardhal(VacKote) #92
80F 65LBF 1273RPM 4 FILE: 81-288bo80



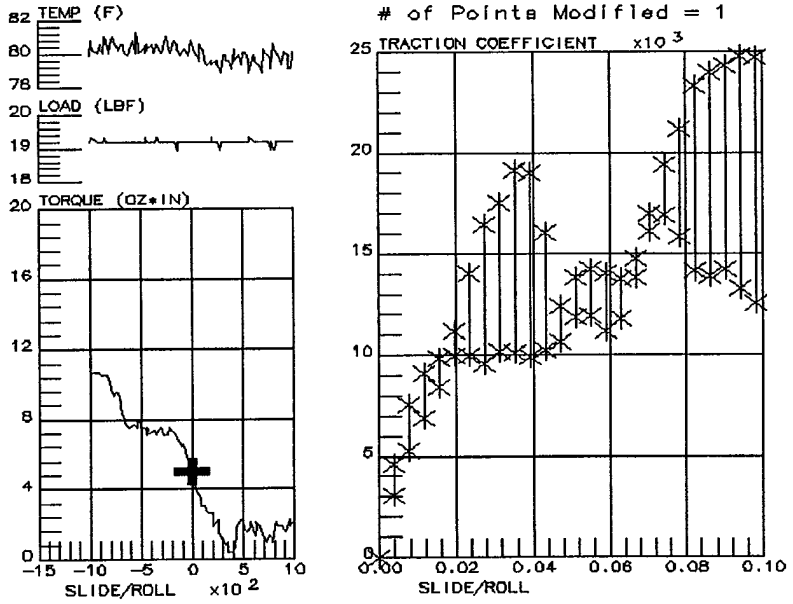
BO 81-288 ApiezonC+5%Bardhal(VacKote) #93
80F 19LBF 2546RPM 5 FILE: 81-288bo80



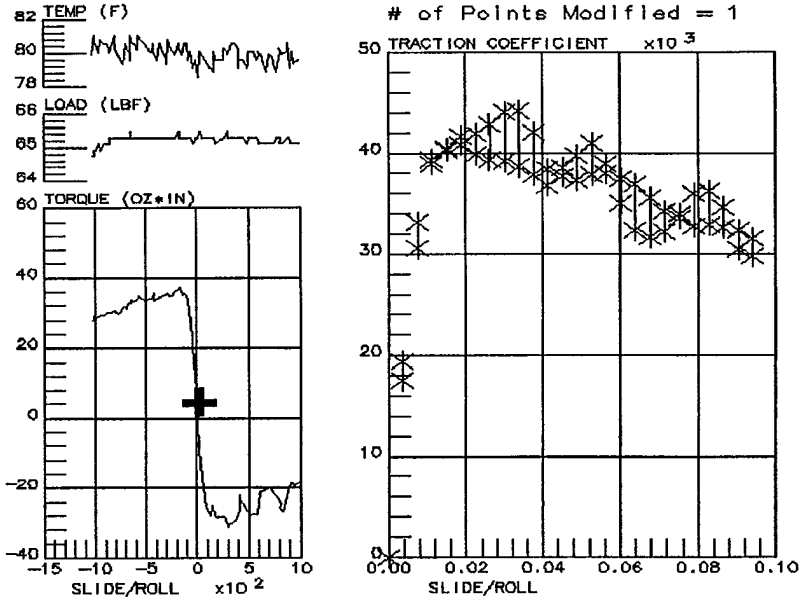
BO 81-288 ApiezonC+5%Bardhal(VacKote) #94
80F 65LBF 2546RPM 6 FILE: 81-288bo80



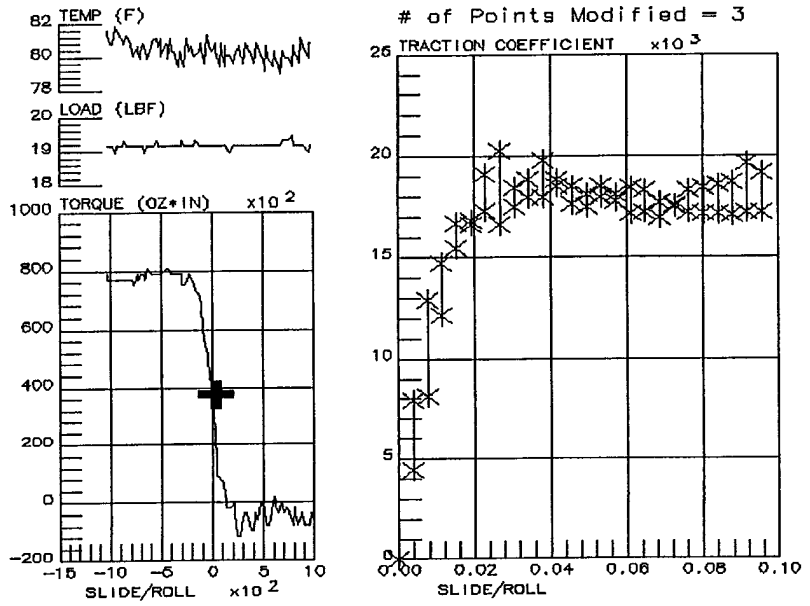
BO 81-288 ApiezonC+5%Bardhal(VacKote) #95
80F 19LBF 5093RPM 7 FILE: 81-288bo80



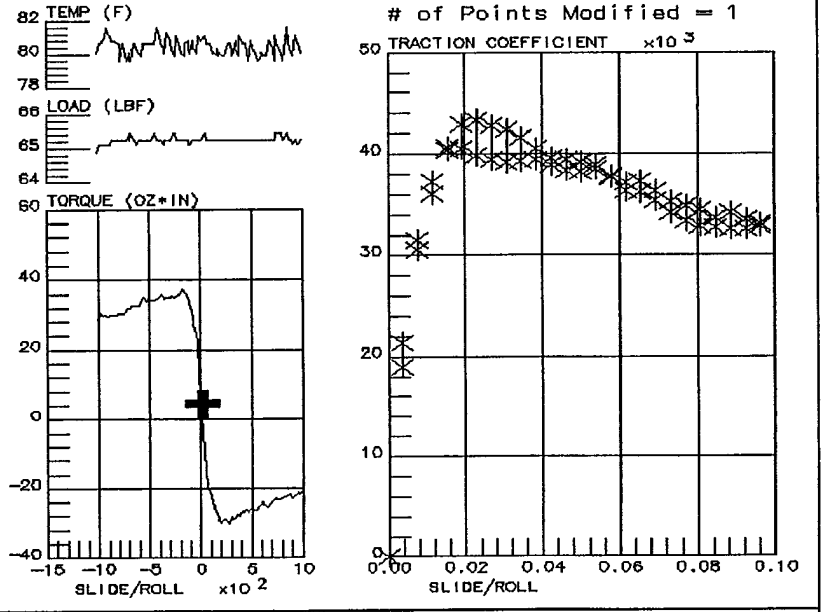
BO 81-288 ApiezonC+5%Bardhal(VacKote) #96
80F 65LBF 5093RPM 8 FILE: 81-288bo80



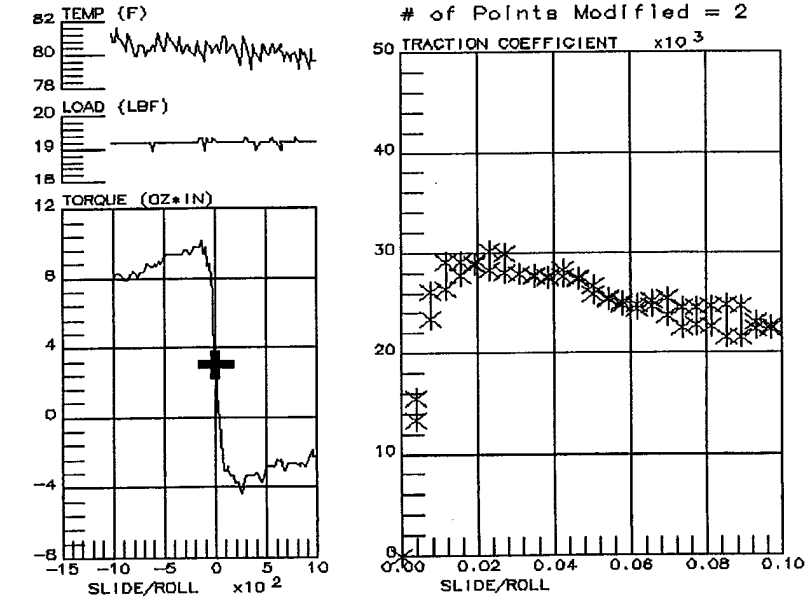
BO 81-288 ApiezonC+5%Bardhal(VacKote) #97
80F 19LBF 7639RPM 9 FILE: 81-288bo80



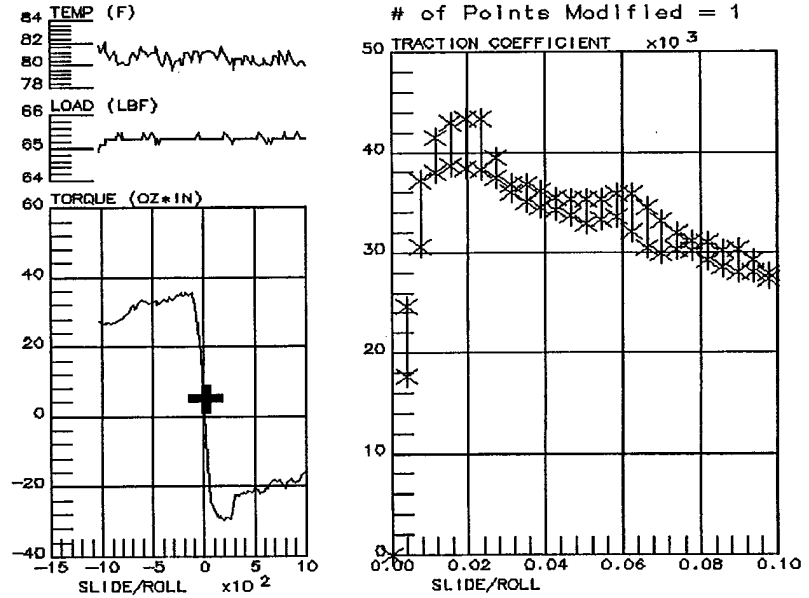
BO 81-288 ApiezonC+5%Bardhal(VacKote) #98
80F 65LBF 7639RPM 10 FILE: 81-288bo80



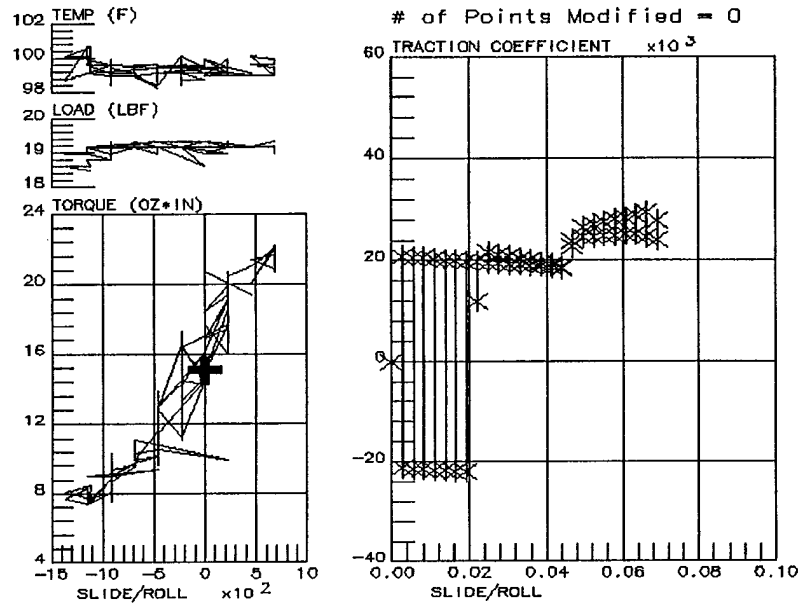
BO 81-288 ApiezonC+5%Bardhal(VacKote) #99
80F 19LBF 10186RPM 11 FILE: 81-288bo80



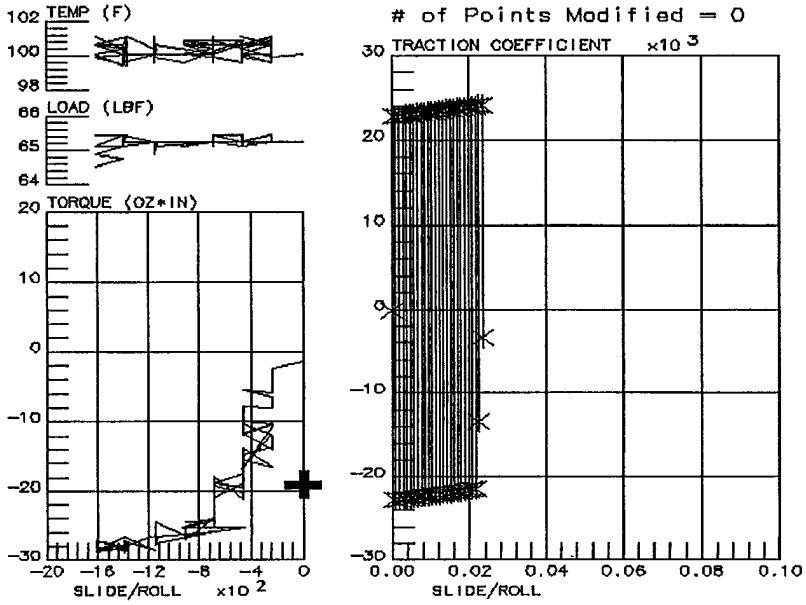
BO 81-288 ApiezonC+5%Bardhal(VacKote) #100
80F 65LBF 10186RPM 12 FILE: 81-288bo80



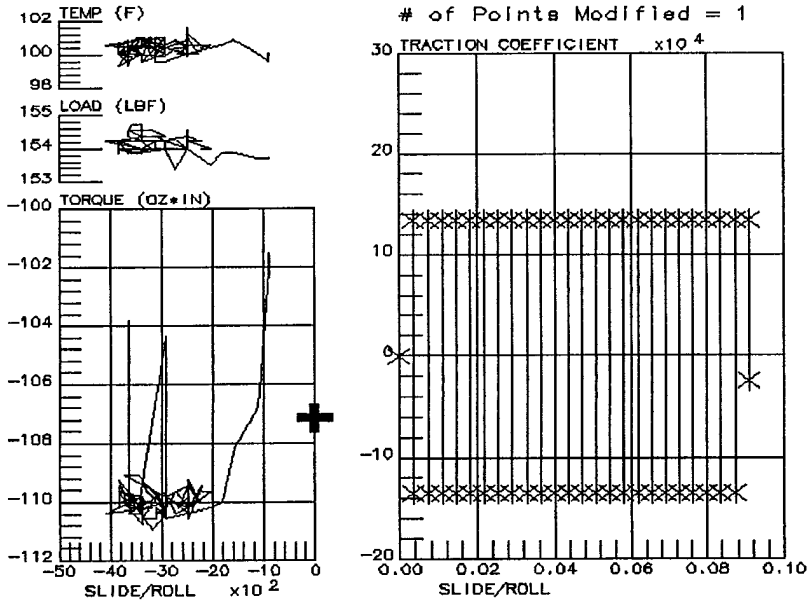
BO 81-288 ApiezonC+5%Bardhal(VacKote) #101
100F 19LBF 318RPM 1 FILE: 81-288bo100



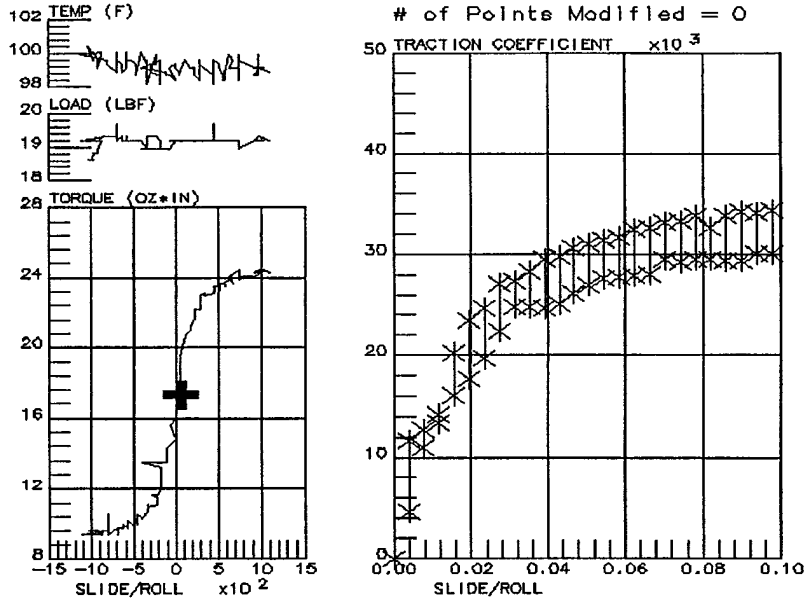
BO 81-288 ApiezonC+5%Bardhal(VacKote) #102
100F 65LBF 318RPM 2 FILE: 81-288bo100



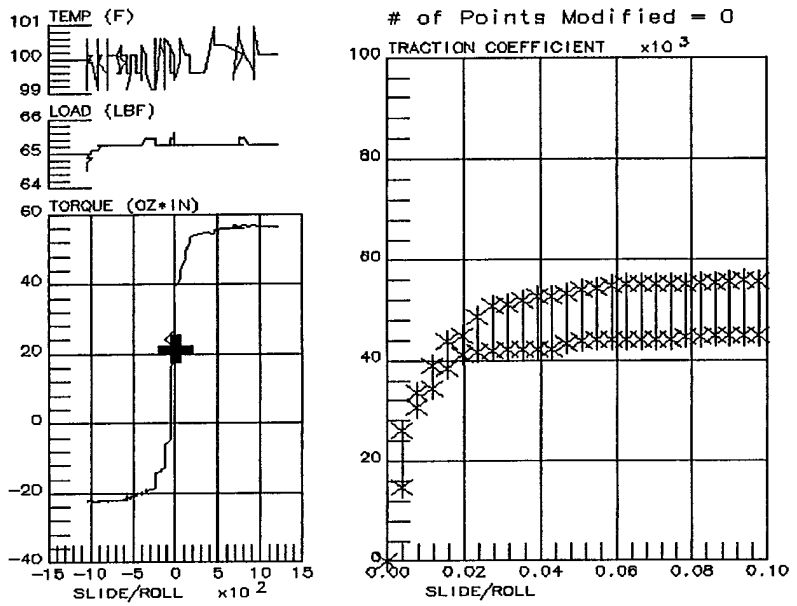
BO 81-288 ApiezonC+5%Bardhal(VacKote) #103
100F 154LBF 318RPM 3 FILE: 81-288bo100



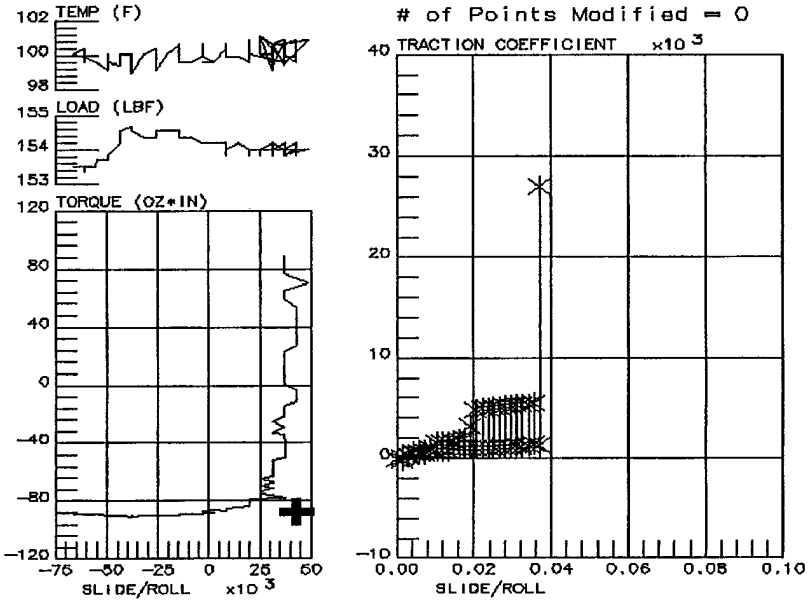
BO 81-288 ApiezonC+5%Bardhal(VacKote) #104
100F 19LBF 1273RPM 4 FILE: 81-288bo100



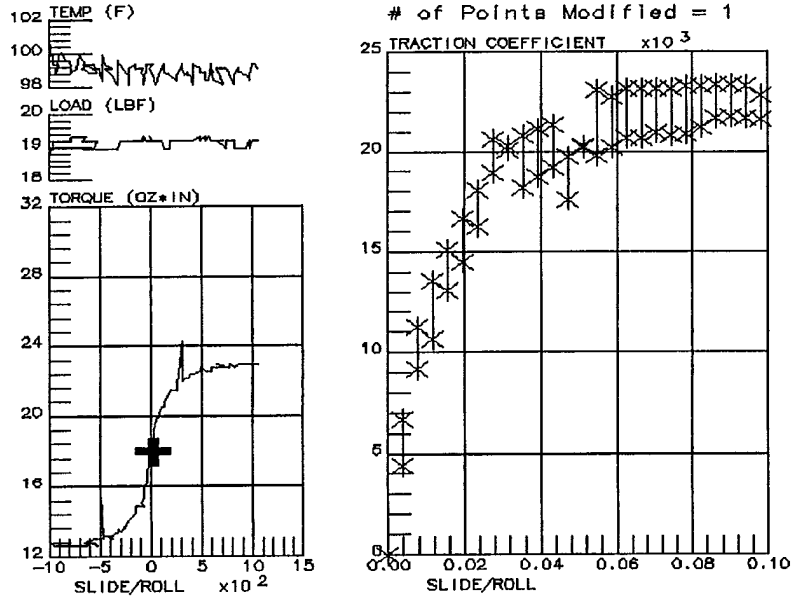
BO 81-288 ApiezonC+5%Bardhal(VacKote) #105
100F 65LBF 1273RPM 5 FILE: 81-288bo100



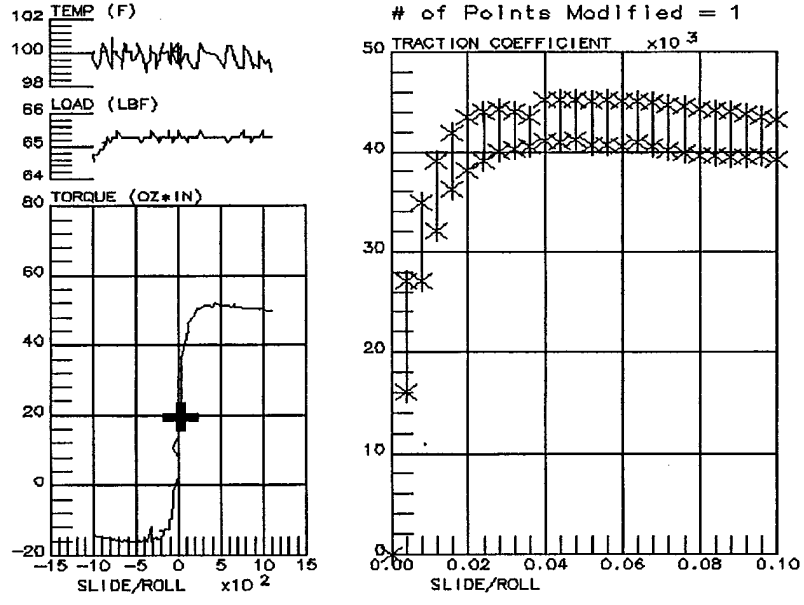
BO 81-288 ApiezonC+5%Bardhal(VacKote) #106
100F 154LBF 1273RPM 6 FILE: 81-288bo100



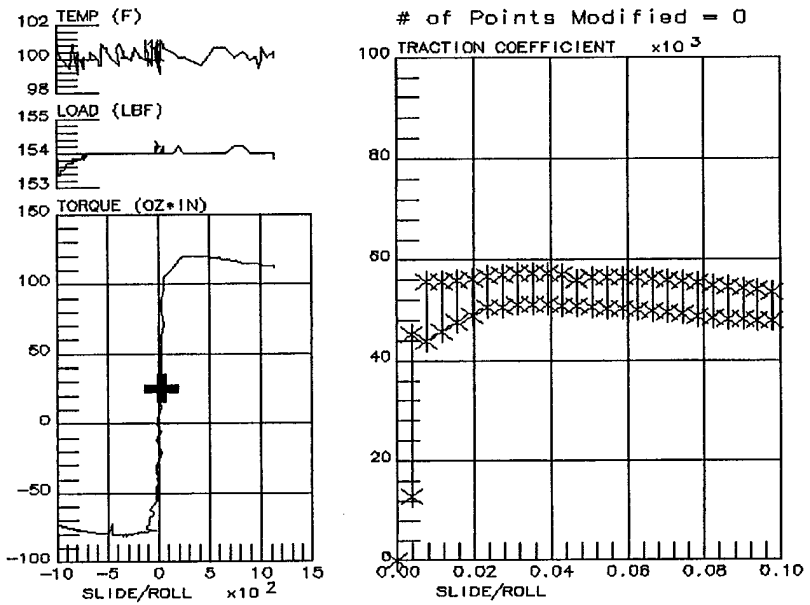
BO 81-288 ApiezonC+5%Bardhal(VacKote) #107
100F 19LBF 2546RPM 7 FILE: 81-288bo100



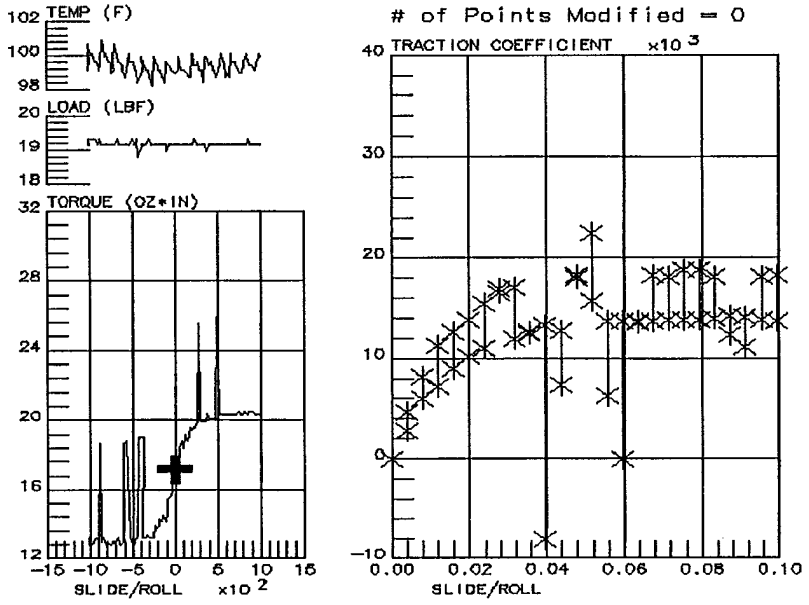
BO 81-288 ApiezonC+5%Bardhal(VacKote) #108
100F 65LBF 2546RPM 8 FILE: 81-288bo100



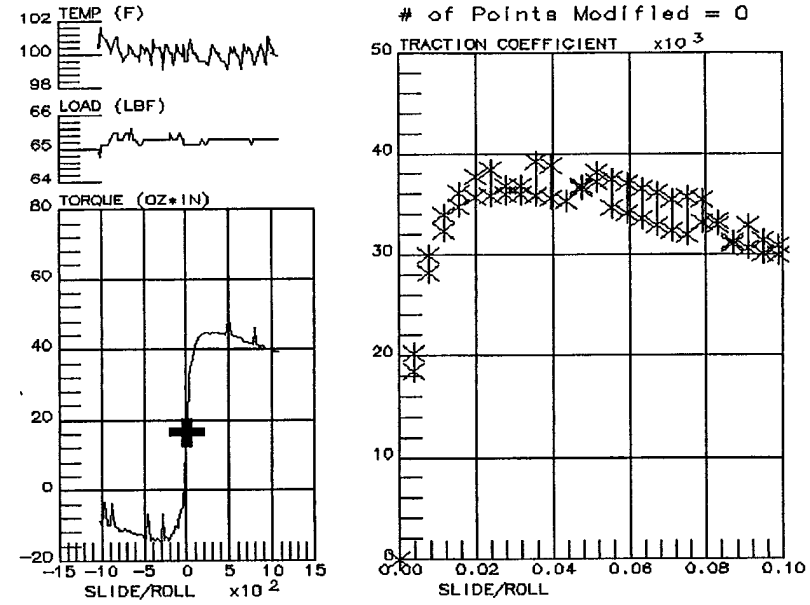
BO 81-288 ApiezonC+5%Bardhal(VacKote) #109
100F 154LBF 2546RPM 9 FILE: 81-288bo100



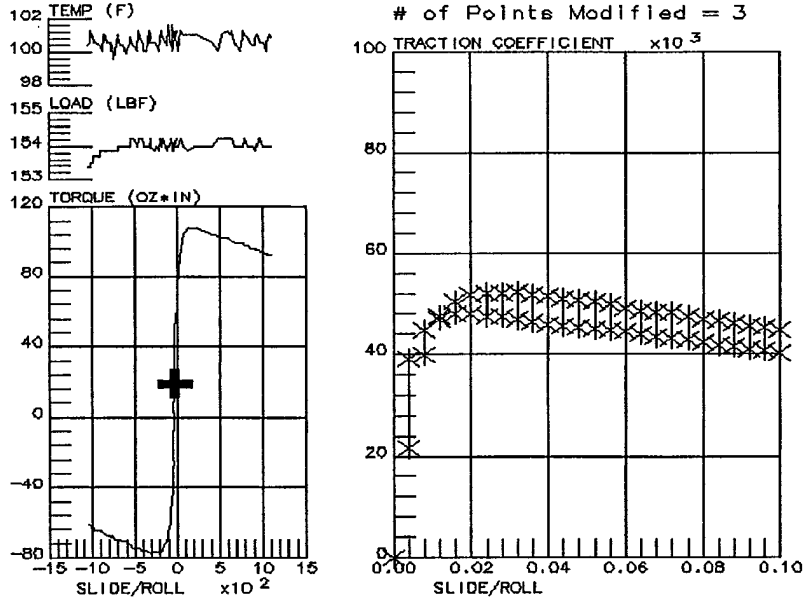
BO 81-288 ApiezonC+5%Bardhal(VacKote) #110
100F 19LBF 5093RPM 10 FILE: 81-288bo100



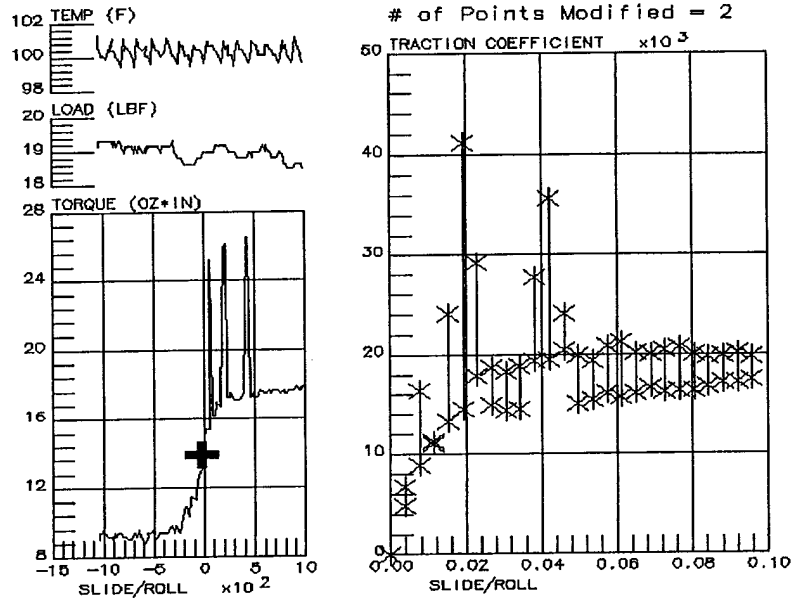
BO 81-288 ApiezonC+5%Bardhal(VacKote) #111
100F 65LBF 5093RPM 11 FILE: 81-288bo100



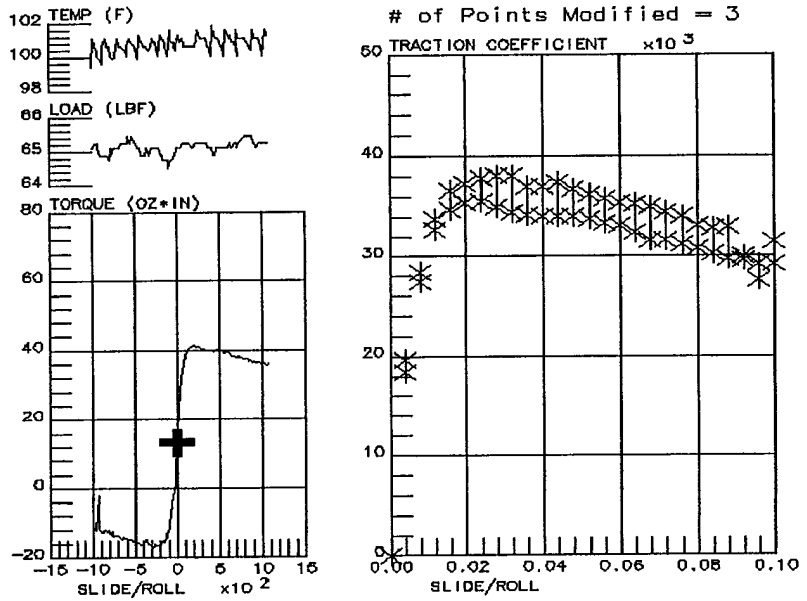
BO 81-288 ApiezonC+5%Bardhal(VacKote) #112
100F 154LBF 5093RPM 12 FILE: 81-288bo100



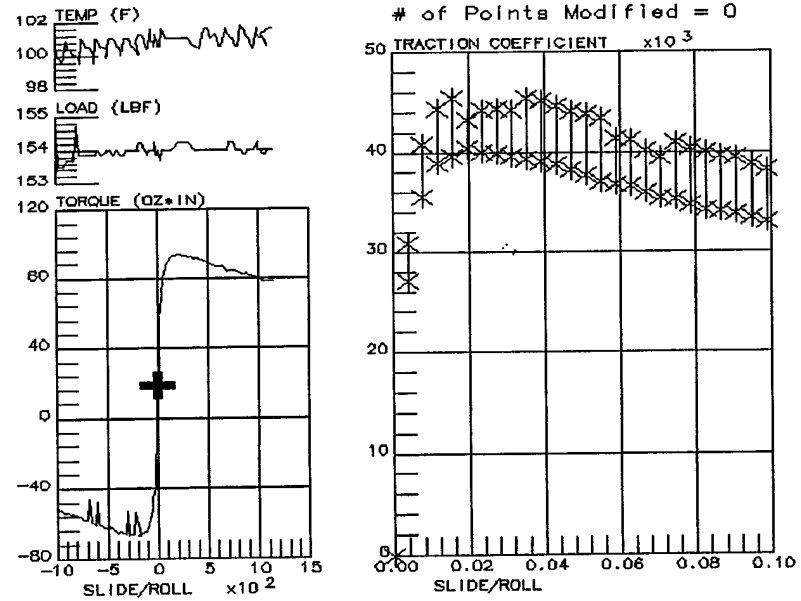
BO 81-288 ApiezonC+5%Bardhal(VacKote) #113
100F 19LBF 7639RPM 13 FILE: 81-288bo100



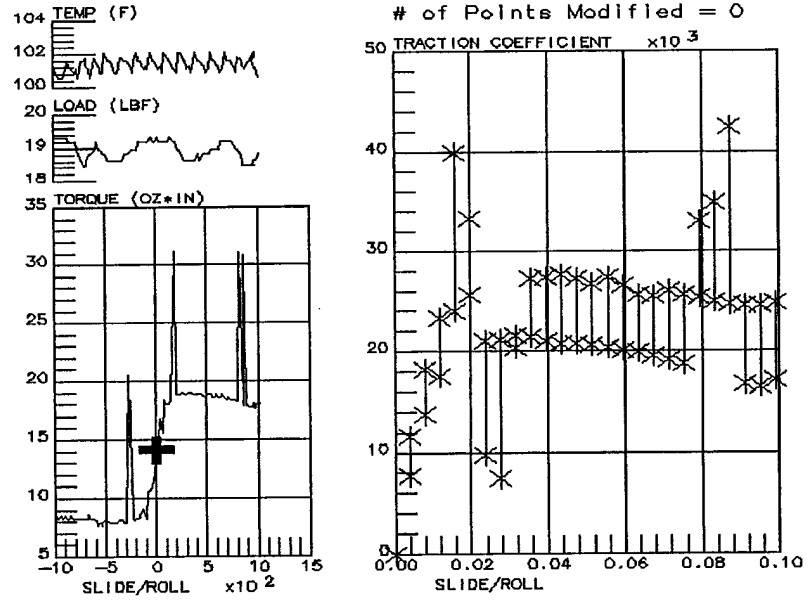
BO 81-288 ApiezonC+5%Bardhal(VacKote) #114
100F 65LBF 7639RPM 14 FILE: 81-288bo100



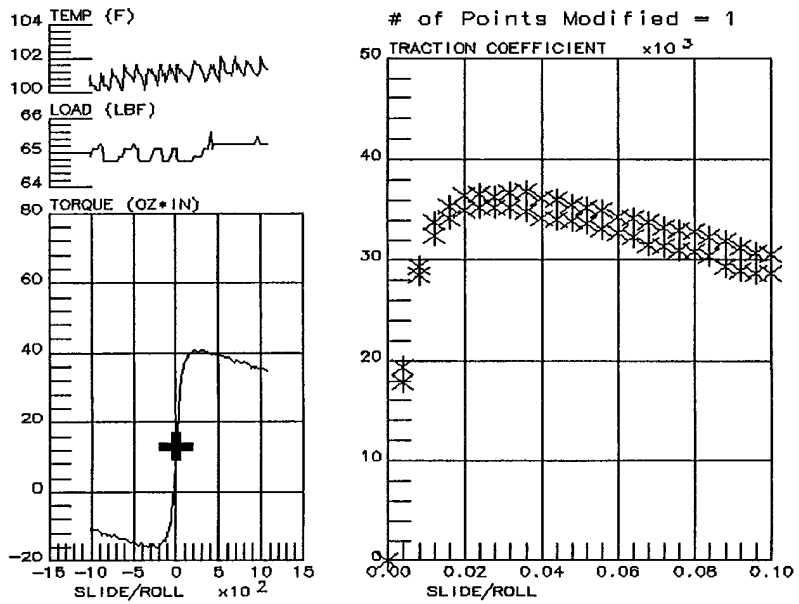
BO 81-288 ApiezonC+5%Bardhal(VacKote) #115
100F 154LBF 7639RPM 15 FILE: 81-288bo100



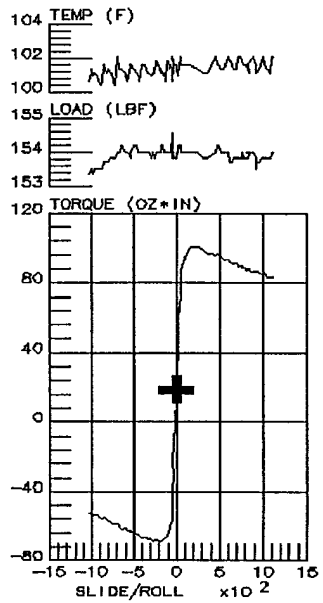
BO 81-288 ApiezonC+5%Bardhal(VacKote) #116
100F 19LBF 10186RPM 16 FILE: 81-288bo100

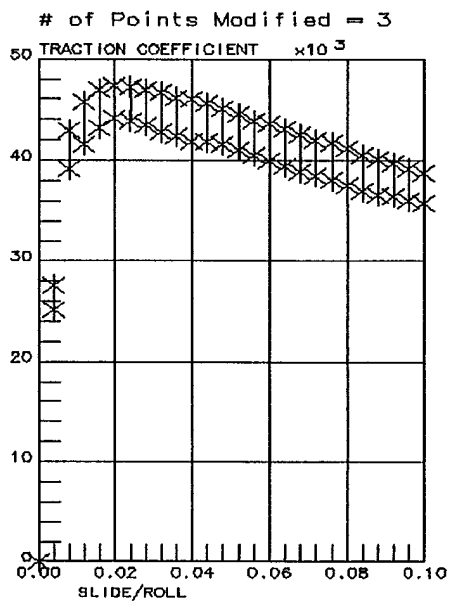


BO 81-288 ApiezonC+5%Bardhal(VacKote) #117
100F 65LBF 10186RPM 17 FILE: 81-288bo100

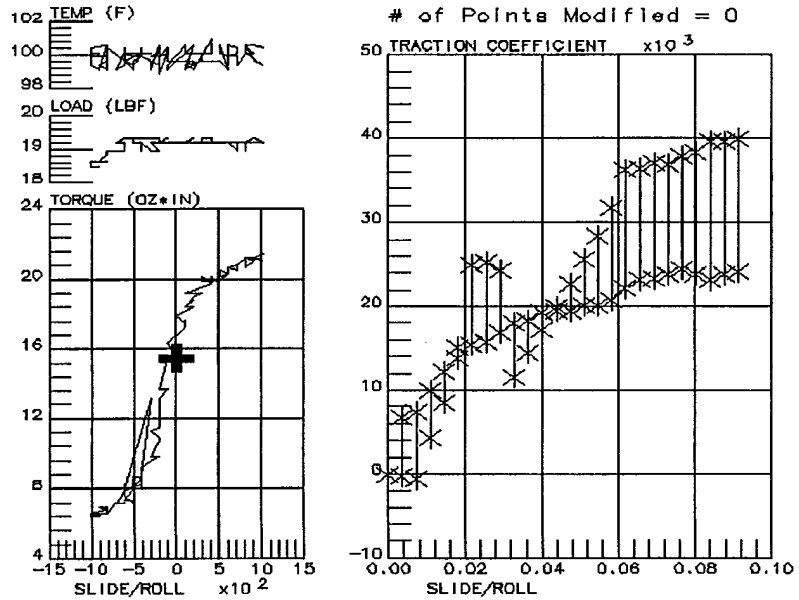


BO 81-288 ApiezonC+5%Bardhal(VacKote) #118
100F 154LBF 10186RPM 18 FILE: 81-288bo100

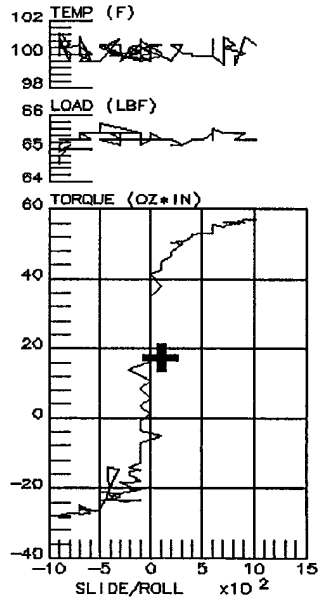


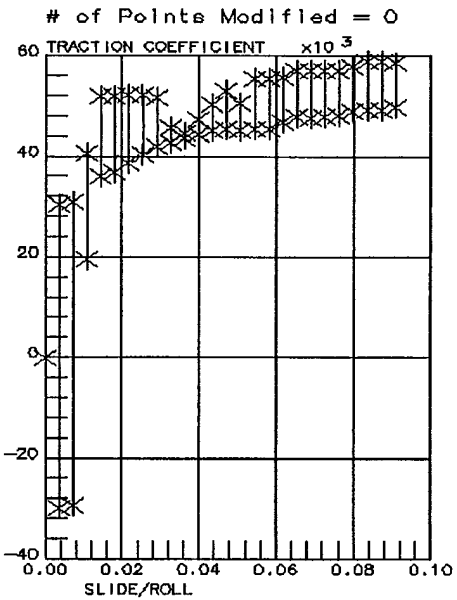


BO 81-288 ApiezonC+5%Bardhal(VacKote) #119
100F 19LBF 318RPM 1 FILE: 81-288bo100

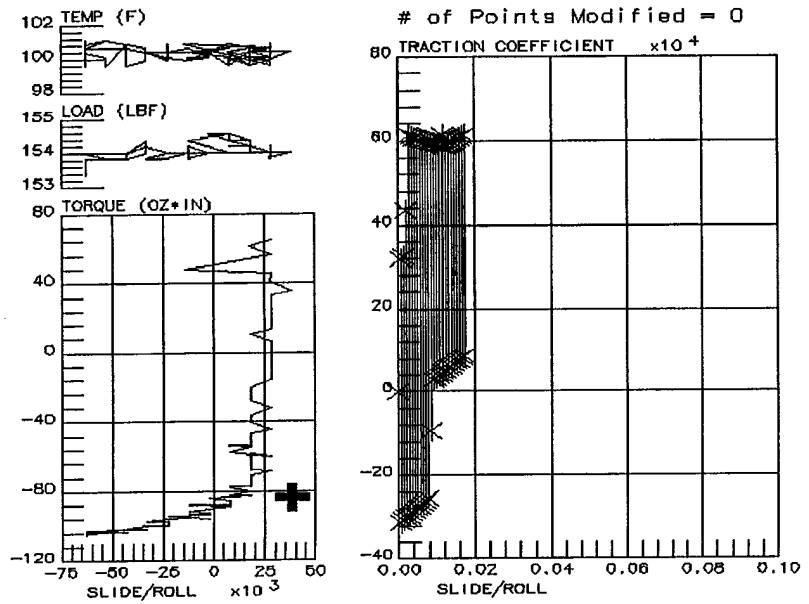


BO 81-288 ApiezonC+5%Bardhal(VacKote) #120
100F 65LBF 318RPM 2 FILE: 81-288bo100

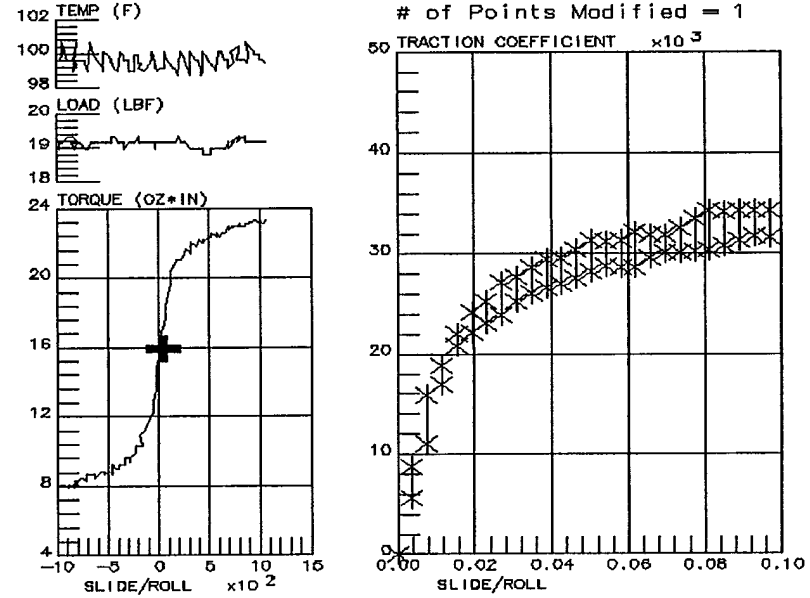




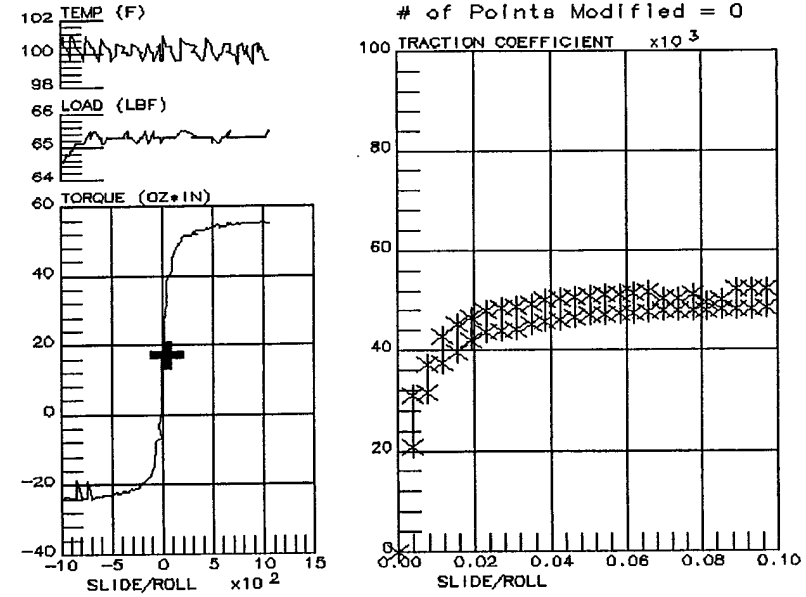
BO 81-288 ApiezonC+5%Bardhal(VacKote) #121
100F 154LBF 318RPM 3 FILE: 81-288bo100



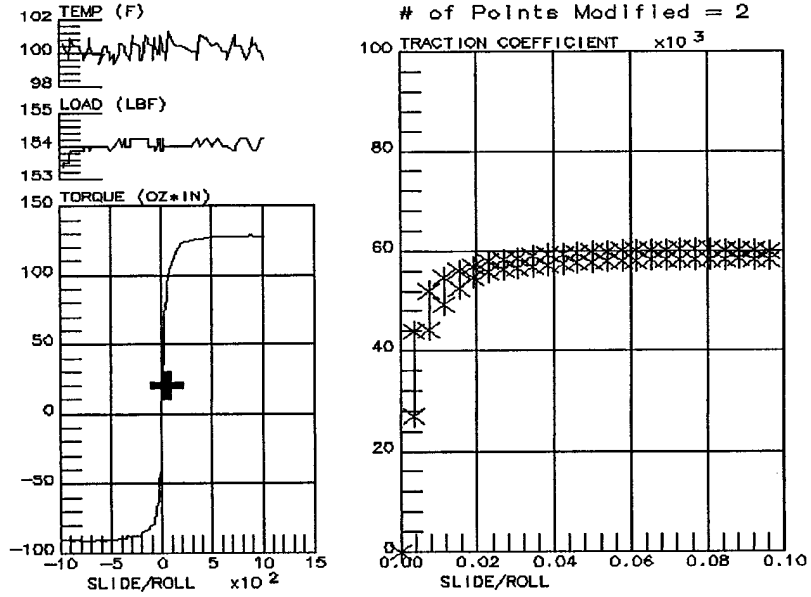
BO 81-288 ApiezonC+5%Bardhal(VacKote) #122
100F 19LBF 1273RPM 4 FILE: 81-288bo100



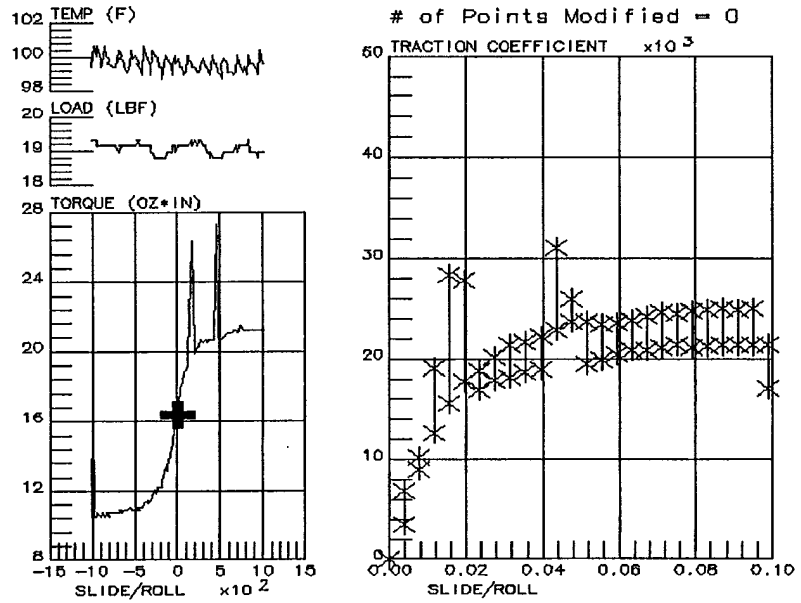
BO 81-288 ApiezonC+5%Bardhal(VacKote) #123
100F 65LBF 1273RPM 5 FILE: 81-288bo100



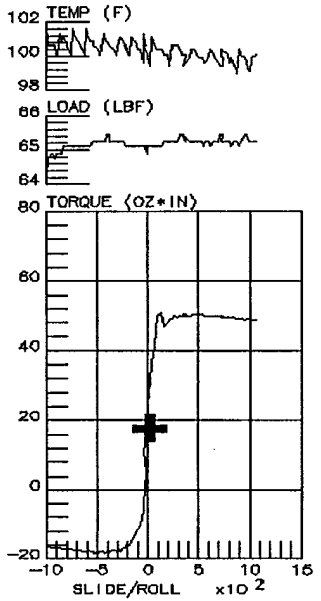
BO 81-288 ApiezonC+5%Bardhal(VacKote) #124
100F 154LBF 1273RPM 6 FILE: 81-288bo100

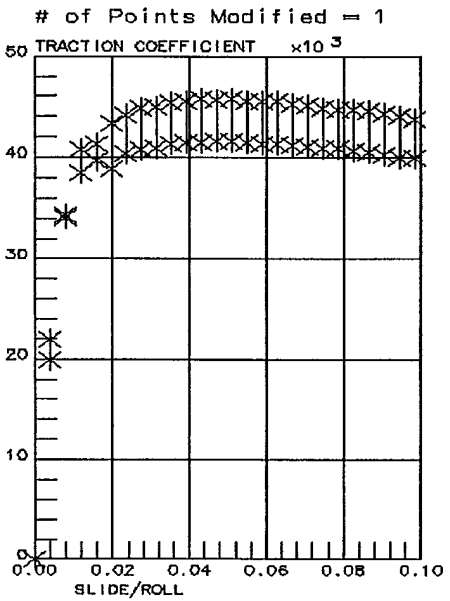


BO 81-288 ApiezonC+5%Bardhal(VacKote) #125
100F 19LBF 2546RPM 7 FILE: 81-288bo100

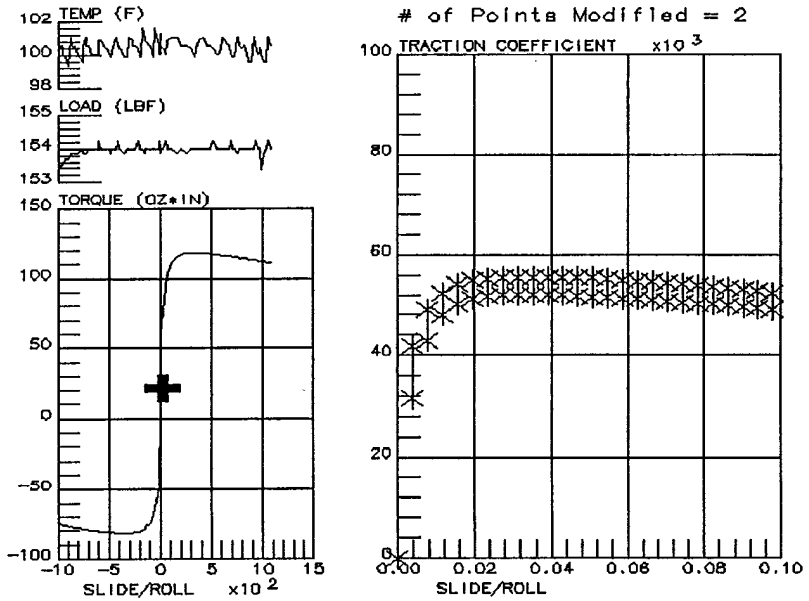


BO 81-288 ApiezonC+5%Bardhal(VacKote) #126
100F 65LBF 2546RPM 8 FILE: 81-288bo100

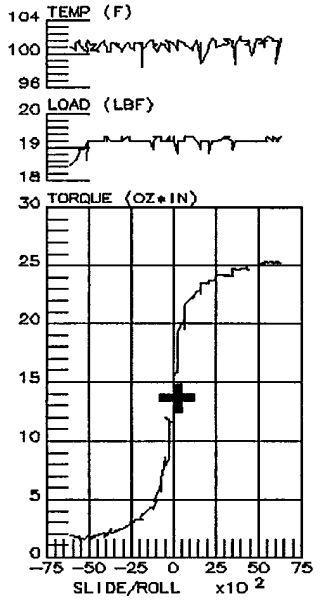


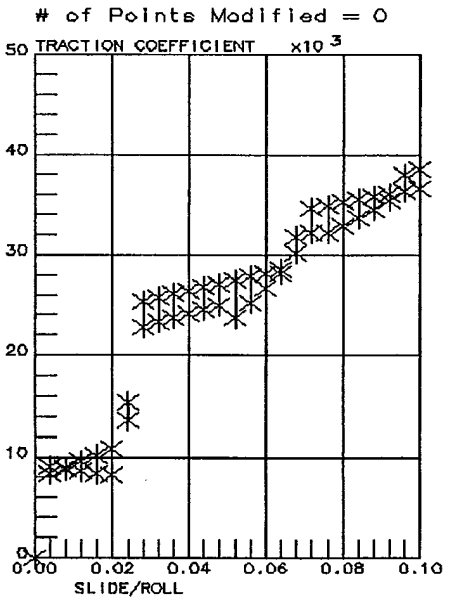


BO 81-288 ApiezonC+5%Bardhal(VacKote) #127
100F 154LBF 2546RPM 9 FILE: 81-288bo100

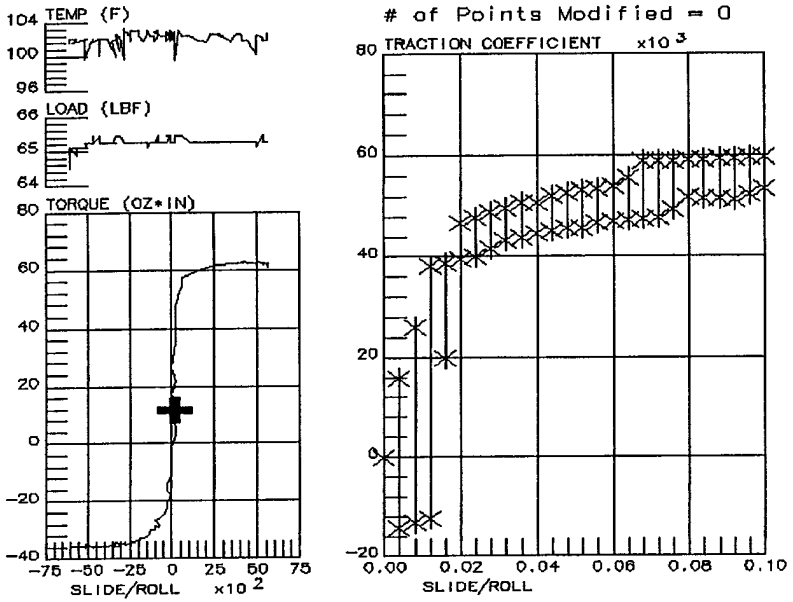


BO 81-288 ApiezonC+5%Bardhal(VacKote) #128
100F 19LBF 318RPM 1 FILE: 81-288bo100

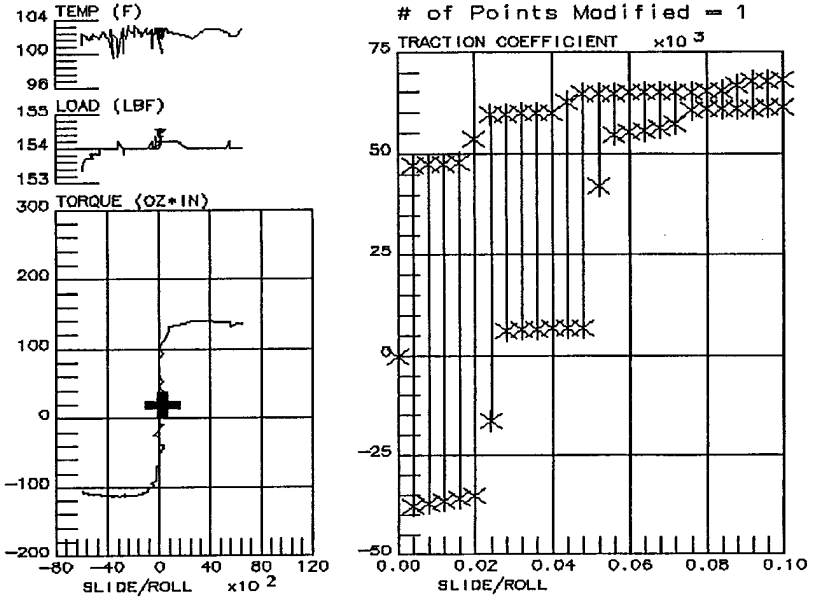




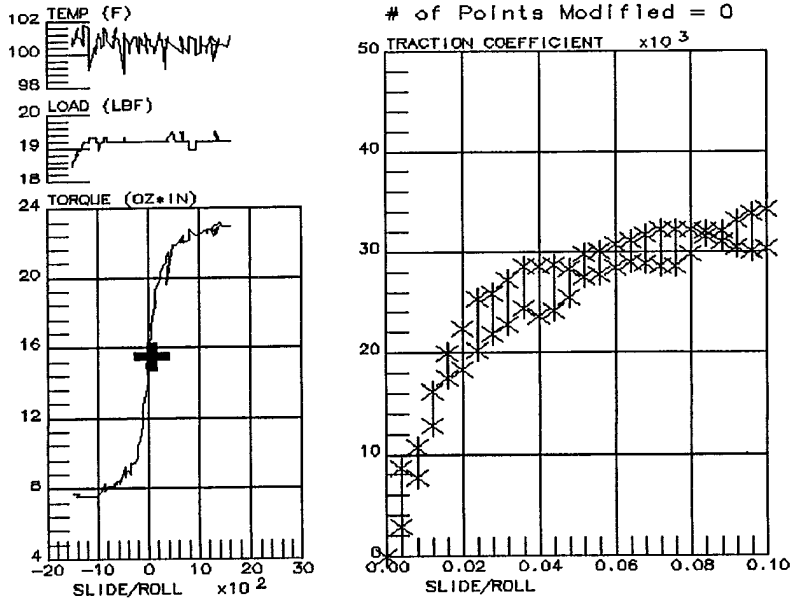
BO 81-288 ApiezonC+5%Bardhal(VacKote) #129
100F 65LBF 318RPM 2 FILE: 81-288bo100



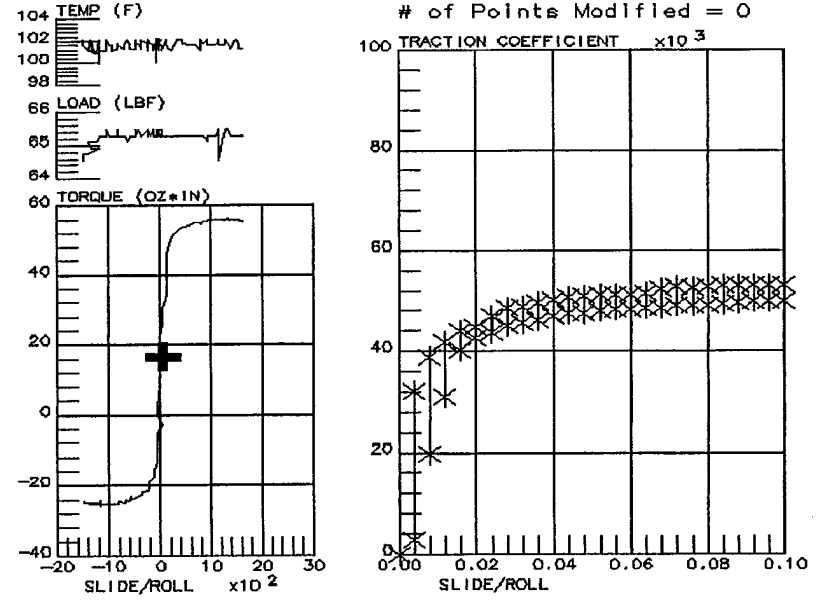
BO 81-288 ApiezonC+5%Bardhal(VacKote) #130
100F 154LBF 318RPM 3 FILE: 81-288bo100



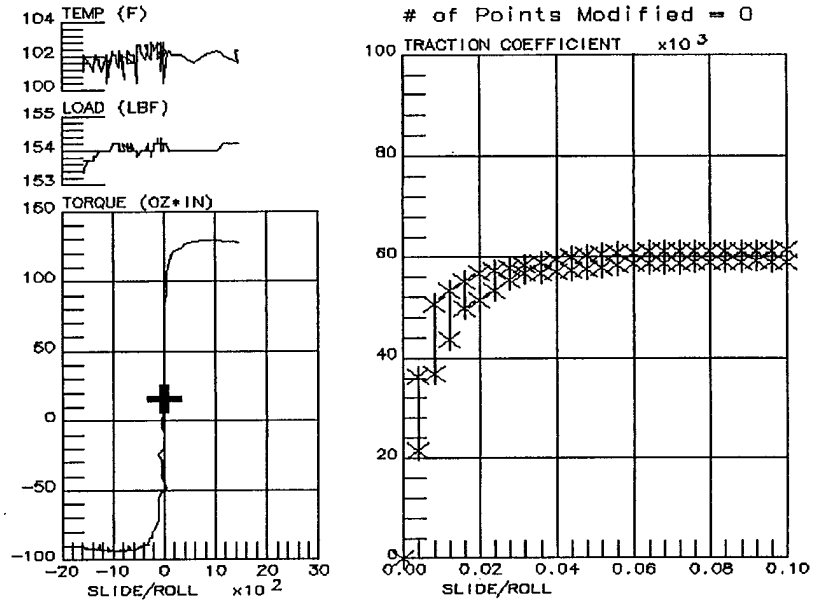
BO 81-288 ApiezonC+5%Bardhal(VacKote) #131
100F 19LBF 1273RPM 4 FILE: 81-288bo100



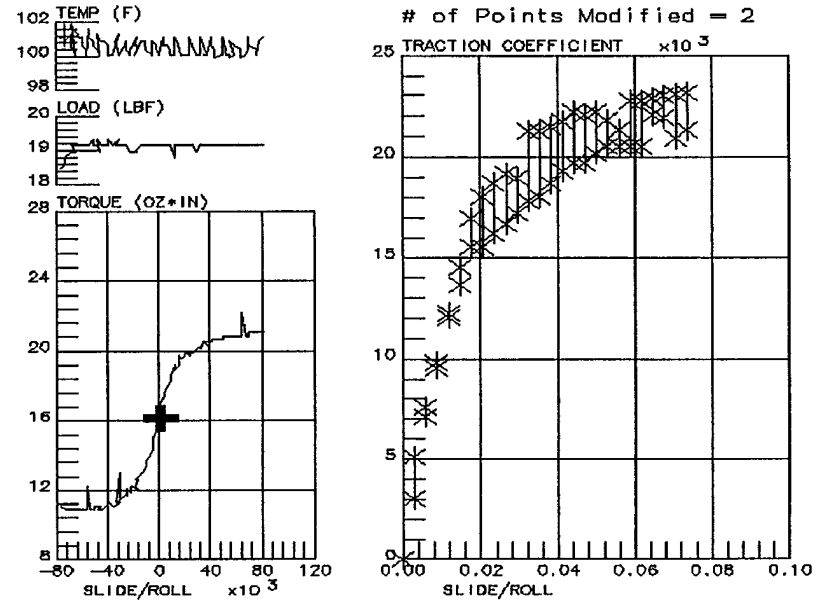
BO 81-288 ApiezonC+5%Bardhal(VacKote) #132
100F 65LBF 1273RPM 5 FILE: 81-288bo100



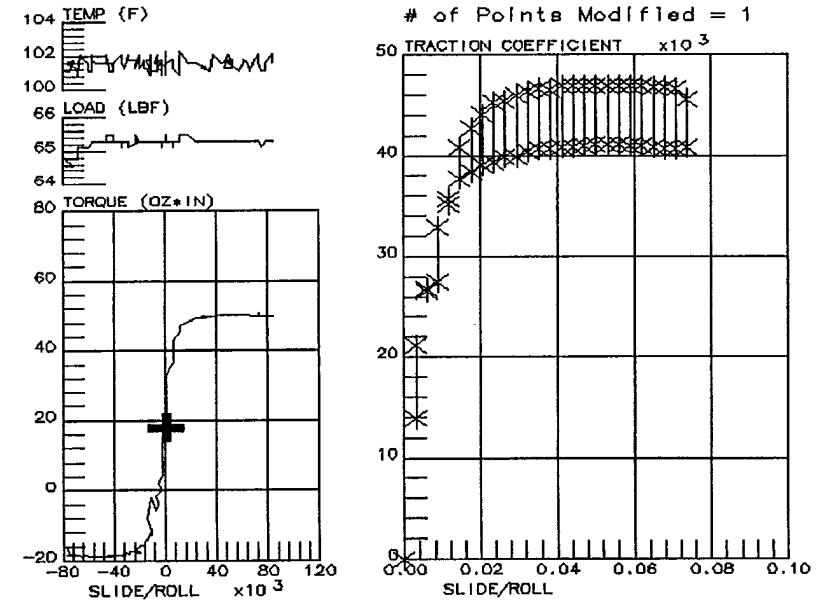
BO 81-288 ApiezonC+5%Bardhal(VacKote) #133
100F 154LBF 1273RPM 6 FILE: 81-288bo100



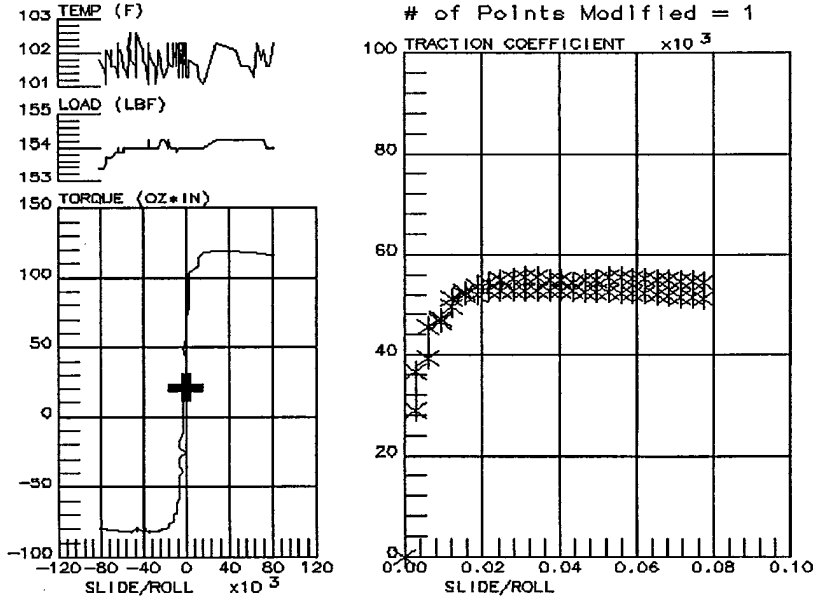
BO 81-288 ApiezonC+5%Bardhal(VacKote) #134
100F 19LBF 2546RPM 7 FILE: 81-288bo100



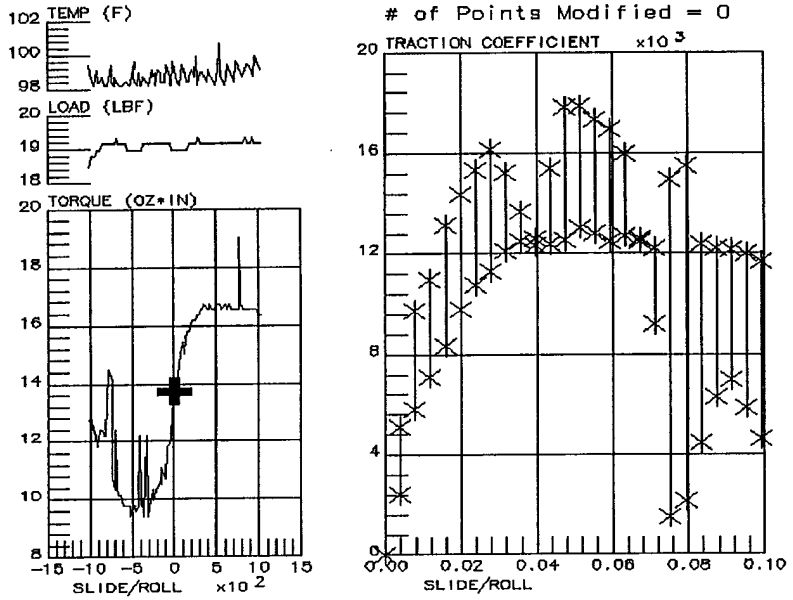
BO 81-288 ApiezonC+5%Bardhal(VacKote) #135
100F 65LBF 2546RPM 8 FILE: 81-288bo100



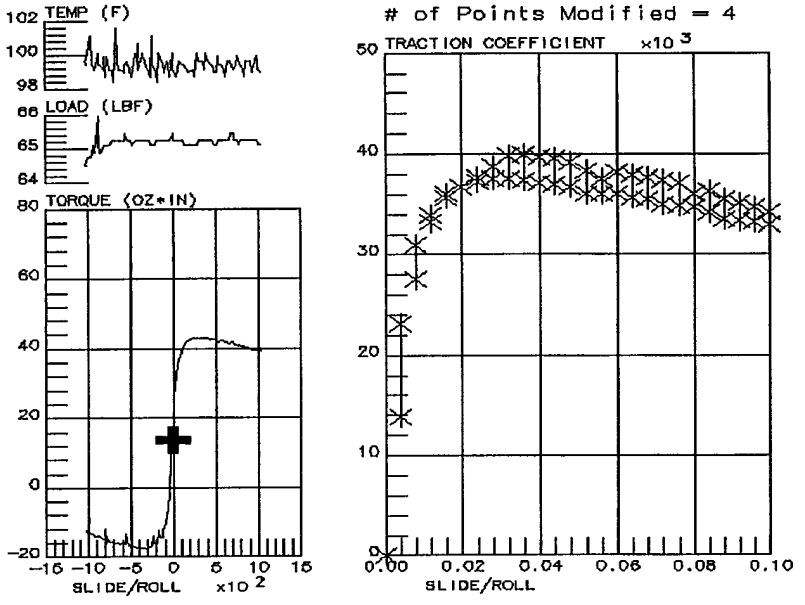
BO 81-288 ApiezonC+5%Bardhal(VacKote) #136
100F 154LBF 2546RPM 9 FILE: 81-288bo100



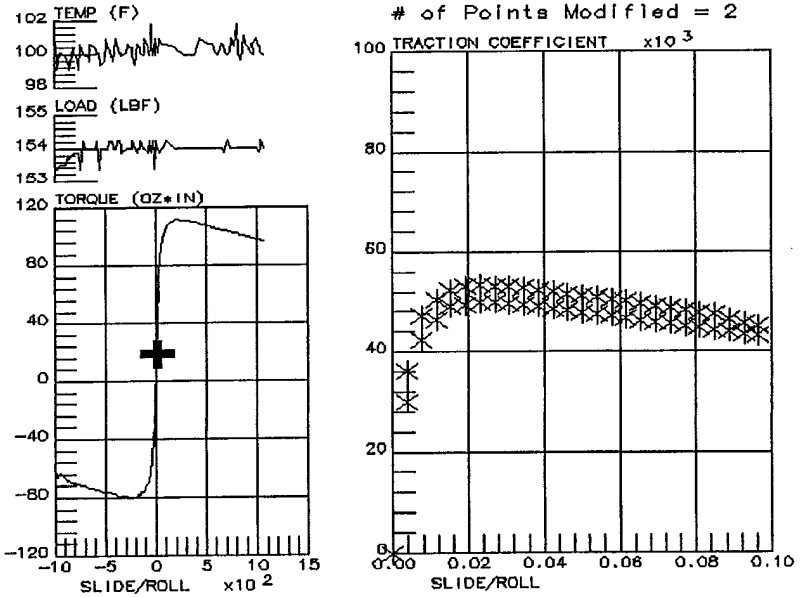
BO 81-288 ApiezonC+5%Bardhal(VacKote) #137
100F 19LBF 5093RPM 1 FILE: 81-288bo100



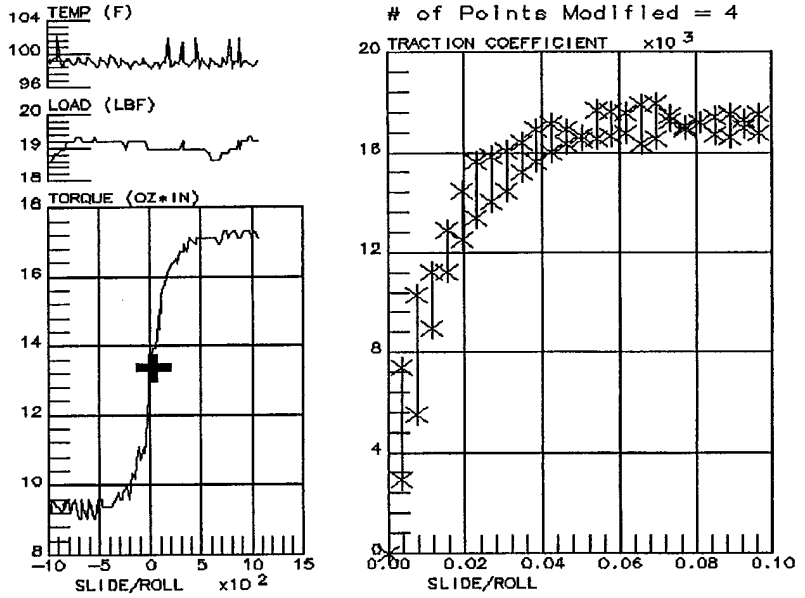
BO 81-288 ApiezonC+5%Bardhal(VacKote) #138
100F 65LBF 5093RPM 2 FILE: 81-288bo100



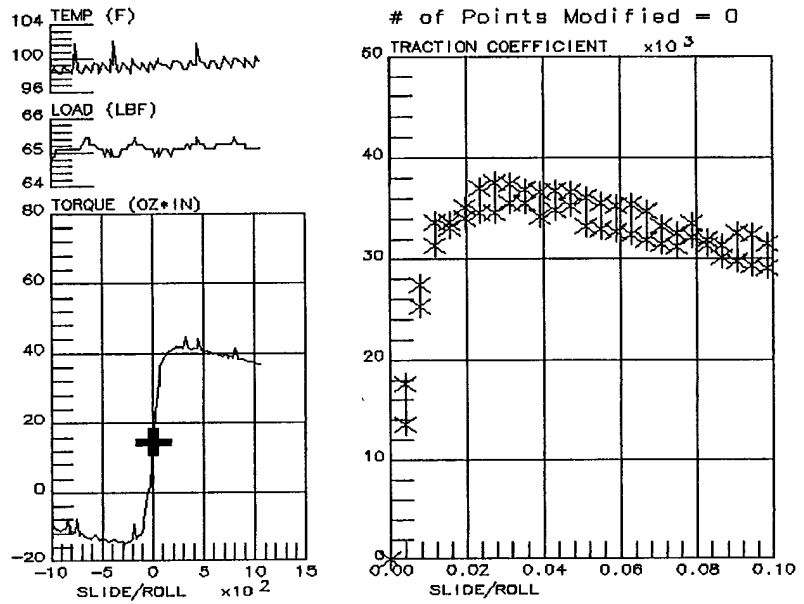
BO 81-288 ApiezonC+5%Bardhal(VacKote) #139
100F 154LBF 5093RPM 3 FILE: 81-288bo100



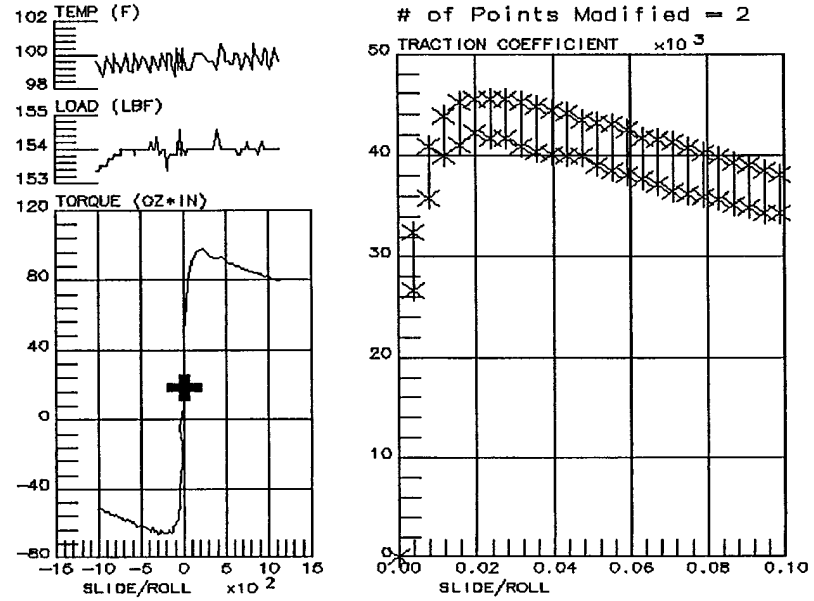
BO 81-288 ApiezonC+5%Bardhal(VacKote) #140
100F 19LBF 7639RPM 4 FILE: 81-288bo100



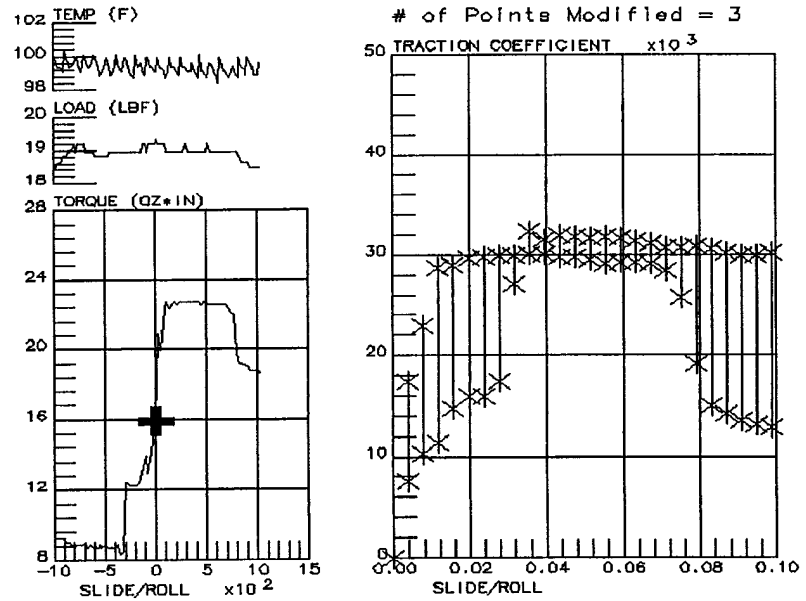
BO 81-288 ApiezonC+5%Bardhal(VacKote) #141
100F 65LBF 7639RPM 5 FILE: 81-288bo100



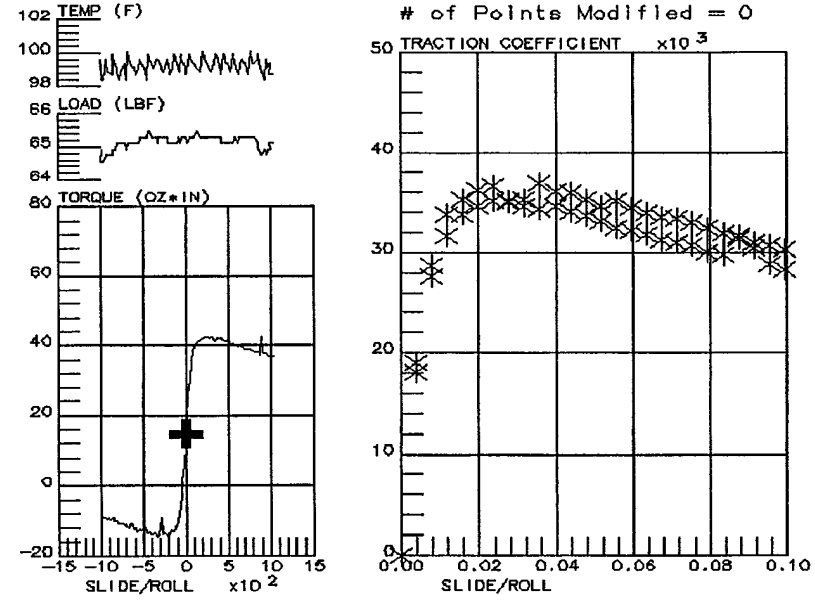
BO 81-288 ApiezonC+5%Bardhal(VacKote) #142
100F 154LBF 7639RPM 6 FILE: 81-288bo100



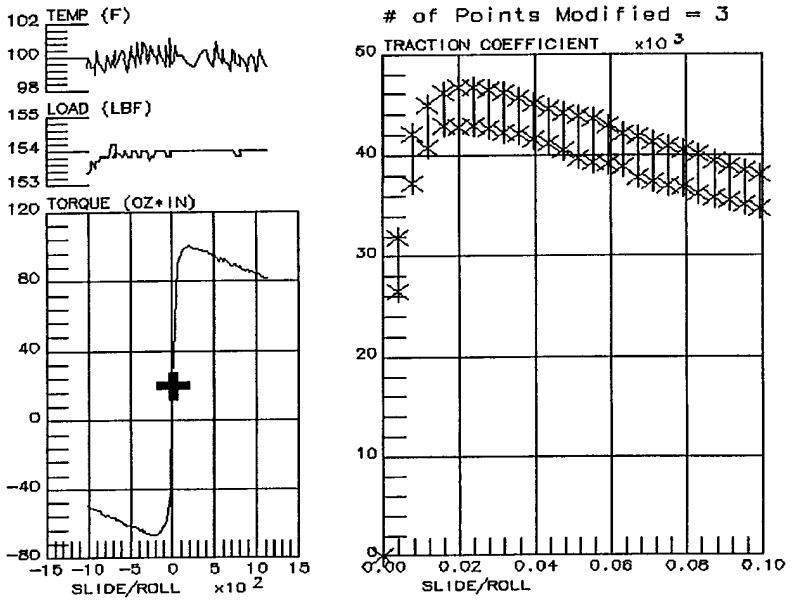
BO 81-288 ApiezonC+5%Bardhal(VacKote) #143
100F 19LBF 10186RPM 7 FILE: 81-288bo100



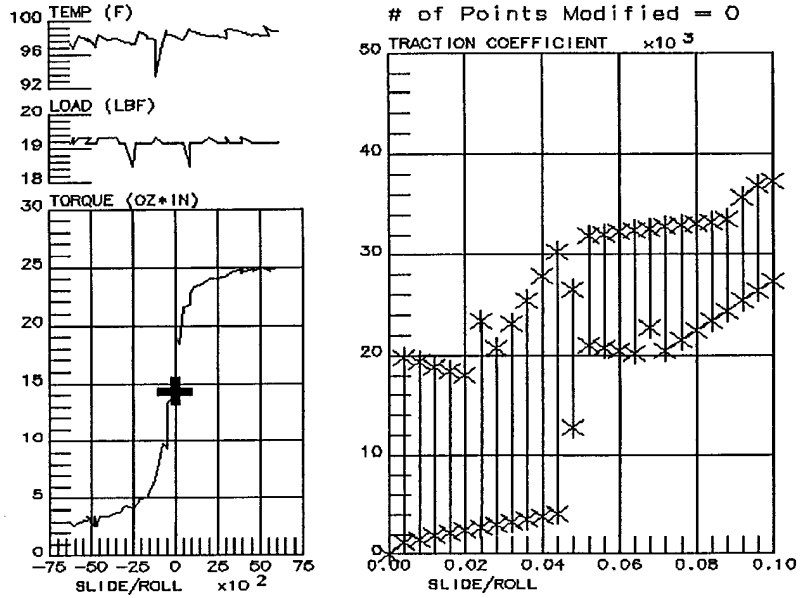
BO 81-288 ApiezonC+5%Bardhal(VacKote) #144
100F 65LBF 10186RPM 8 FILE: 81-288bo100



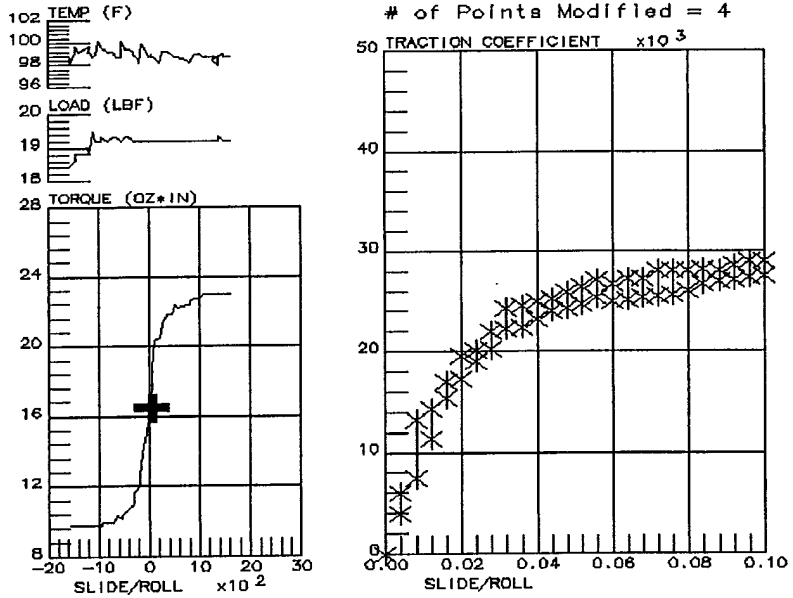
BO 81-288 ApiezonC+5%Bardhal(VacKote) #145
100F 154LBF 10186RPM 9 FILE: 81-288bo100



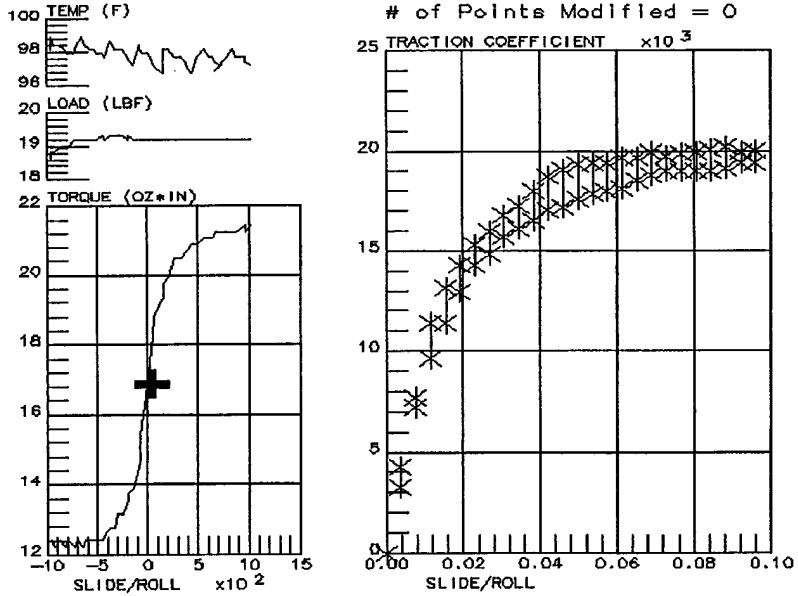
BO 81-288 ApiezonC+5%Bardhal(VacKote) #146
100F 19LBF 318RPM 1 FILE: 81-288bo100



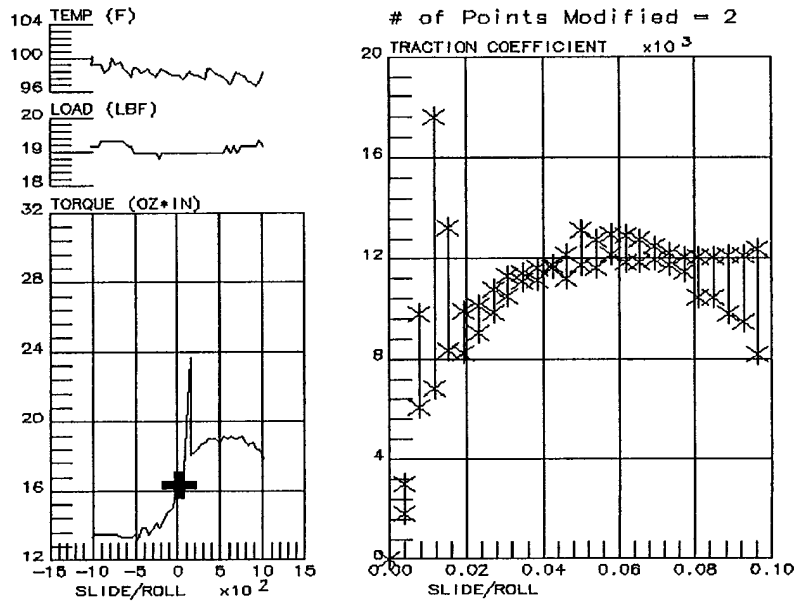
BO 81-288 ApiezonC+5%Bardhal(VacKote) #147
100F 19LBF 1273RPM 2 FILE: 81-288bo100



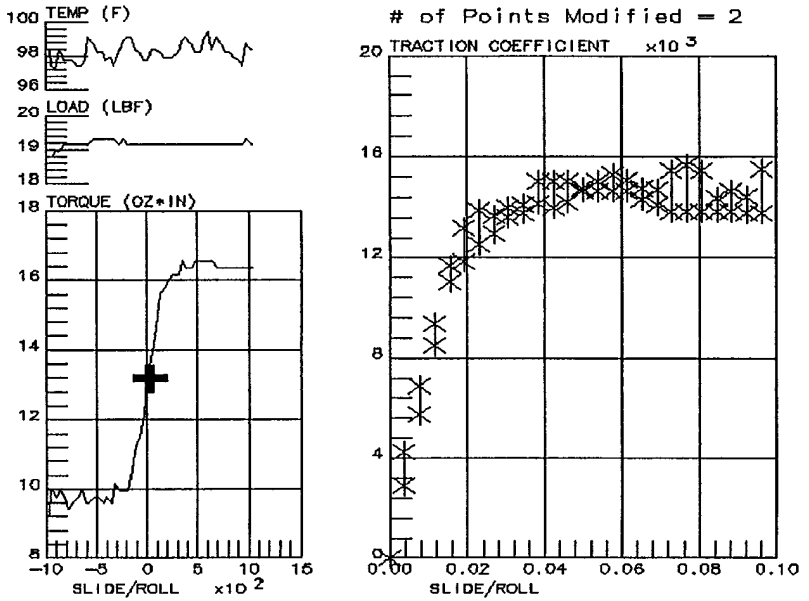
BO 81-288 ApiezonC+5%Bardhal(VacKote) #148
100F 19LBF 2546RPM 3 FILE: 81-288bo100



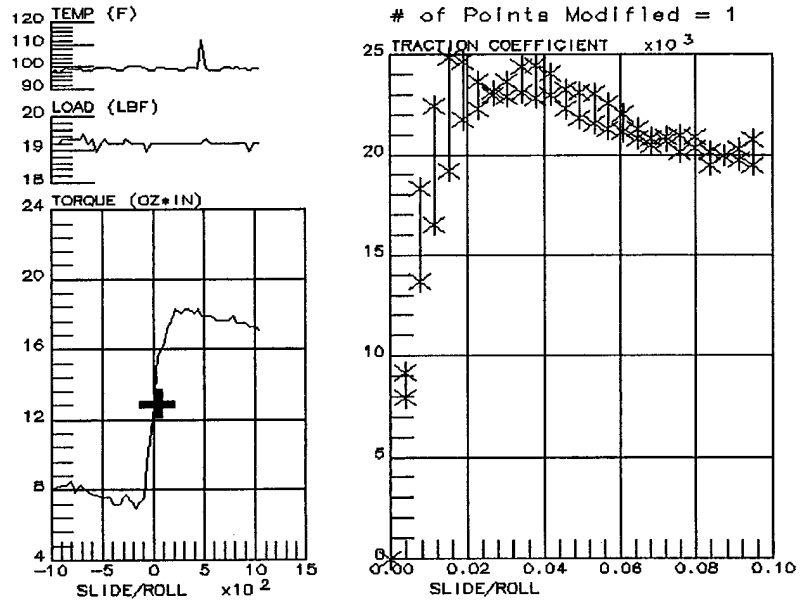
BO 81-288 ApiezonC+5%Bardhal(VacKote) #149
100F 19LBF 5093RPM 4 FILE: 81-288bo100



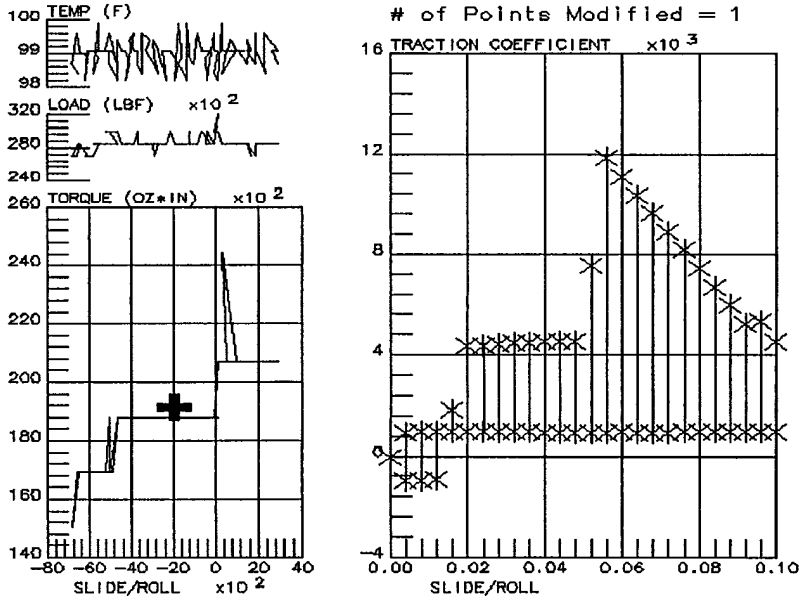
BO 81-288 ApiezonC+5%Bardhal(VacKote) #150
100F 19LBF 7639RPM 5 FILE: 81-288bo100



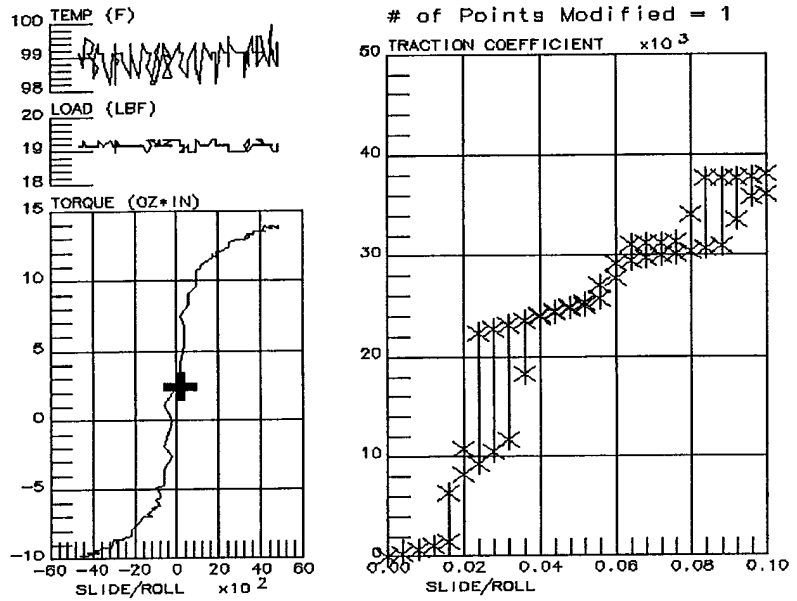
BO 81-288 ApiezonC+5%Bardhal(VacKote) #151
100F 19LBF 10186RPM 6 FILE: 81-288bo100



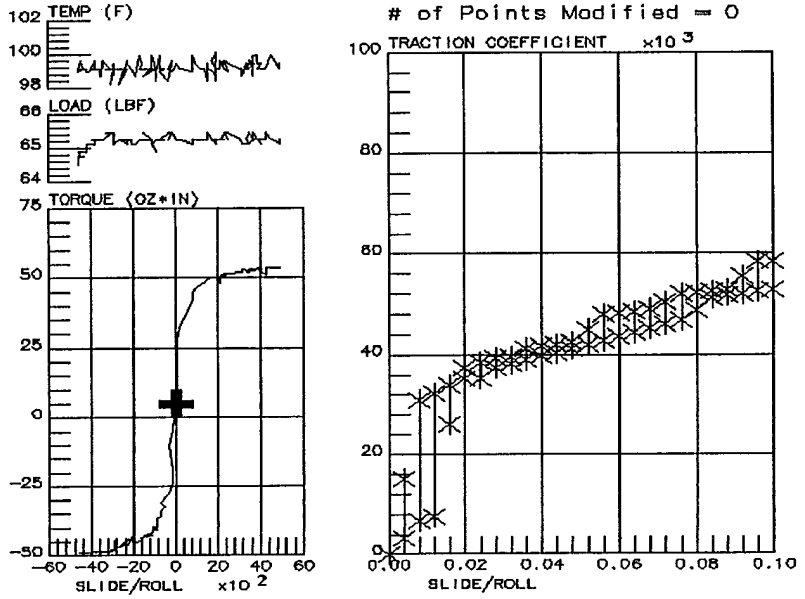
BO 81-288 ApiezonC+5%Bardhal(VacKote) #152
100F 3LBF 170RPM 1 FILE: 81-288bo100



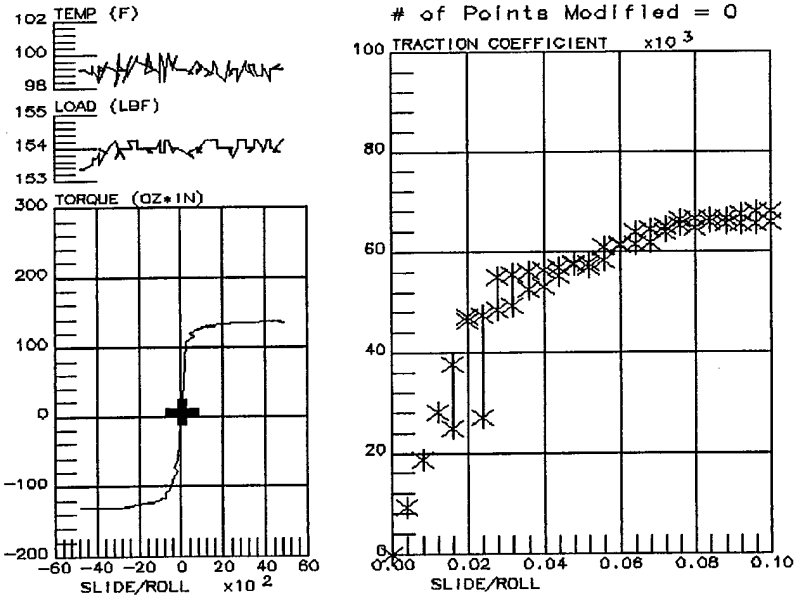
BO 81-288 ApiezonC+5%Bardhal(VacKote) #153
100F 19LBF 170RPM 2 FILE: 81-288bo100



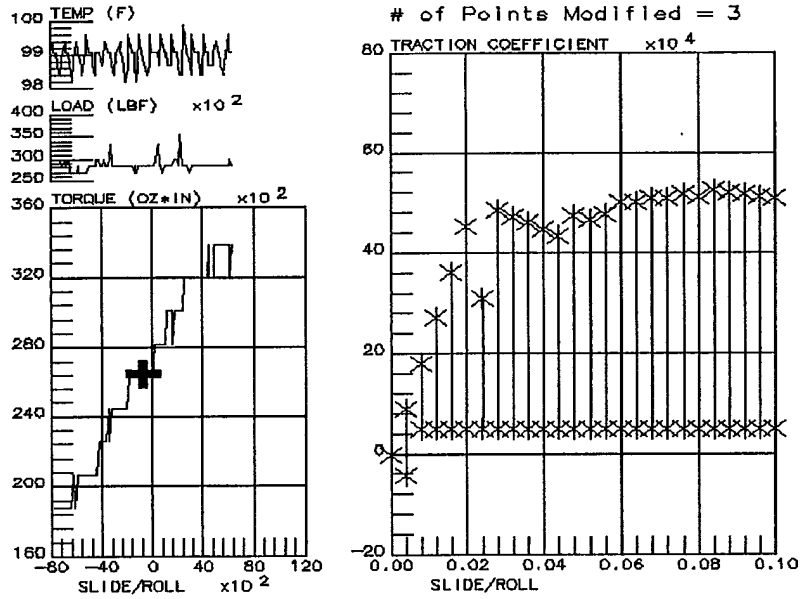
BO 81-288 ApiezonC+5%Bardhal(VacKote) #154
100F 65LBF 170RPM 3 FILE: 81-288bo100



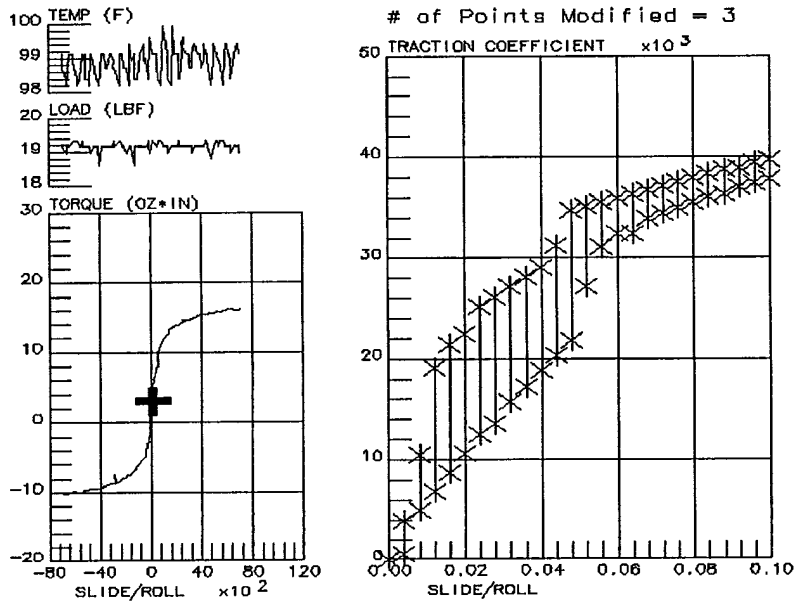
BO 81-288 ApiezonC+5%Bardhal(VacKote) #155
100F 154LBF 170RPM 4 FILE: 81-288bo100



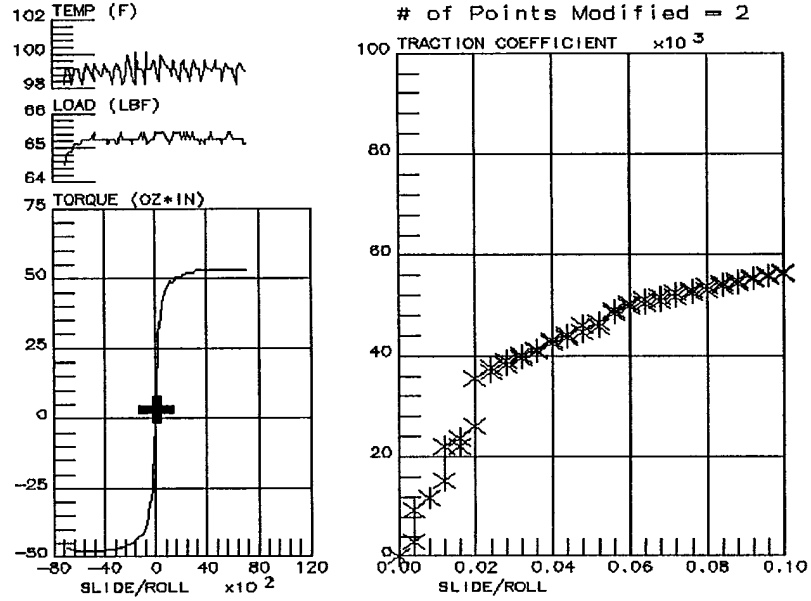
BO 81-288 ApiezonC+5%Bardhal(VacKote) #156
100F 3LBF 273RPM 5 FILE: 81-288bo100



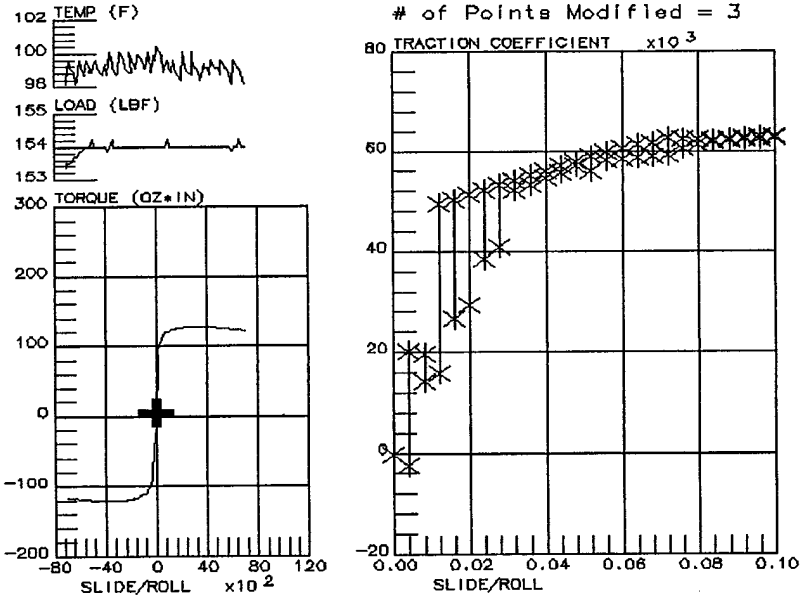
BO 81-288 ApiezonC+5%Bardhal(VacKote) #157
100F 19LBF 273RPM 6 FILE: 81-288bo100



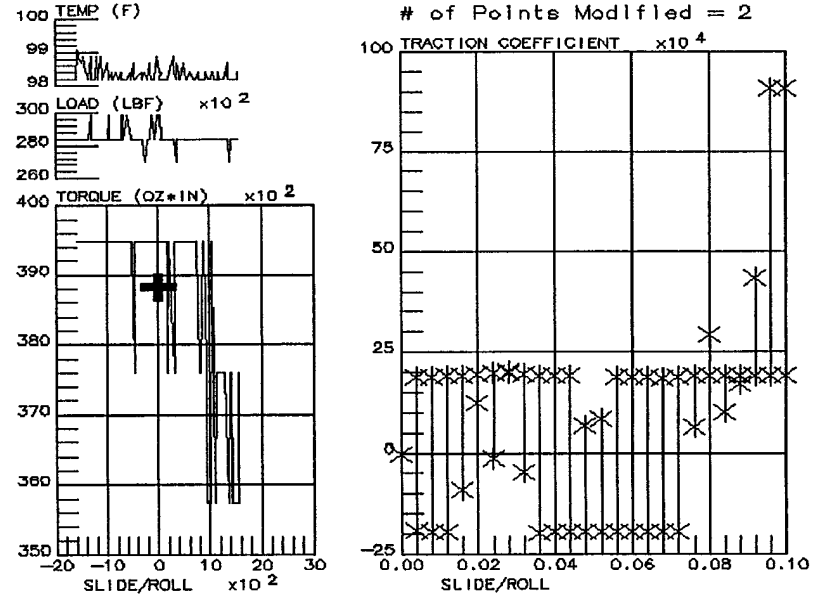
BO 81-288 ApiezonC+5%Bardhal(VacKote) #158
100F 65LBF 273RPM 7 FILE: 81-288bo100



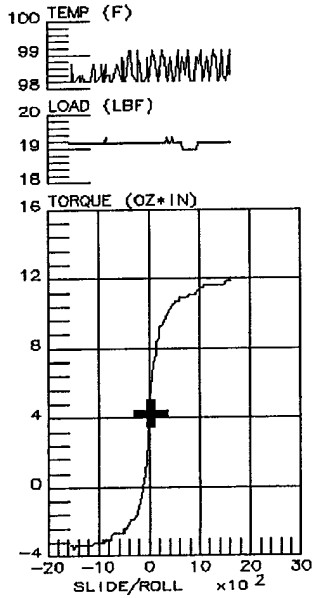
BO 81-288 ApiezonC+5%Bardhal(VacKote) #159
100F 154LBF 273RPM 8 FILE: 81-288bo100



BO 81-288 ApiezonC+5%Bardhal(VacKote) #160
100F 3LBF 1273RPM 9 FILE: 81-288bo100



BO 81-288 ApiezonC+5%Bardhal(VacKote) #161
100F 19LBF 1273RPM 10 FILE: 81-288bo100



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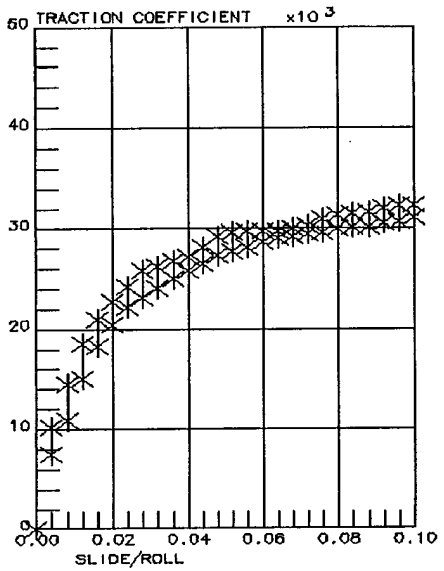
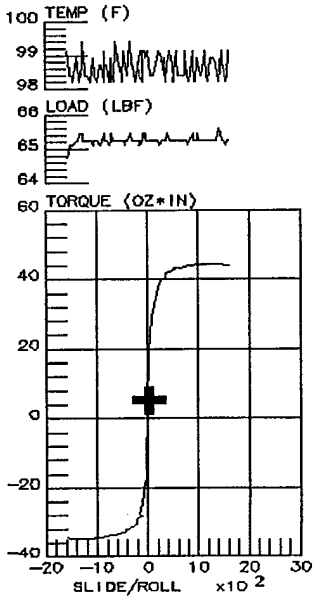


BO 81-288 ApiezonC+5%Bardhal(VacKote) #162
100F 65LBF 1273RPM 11 FILE: 81-288bo100



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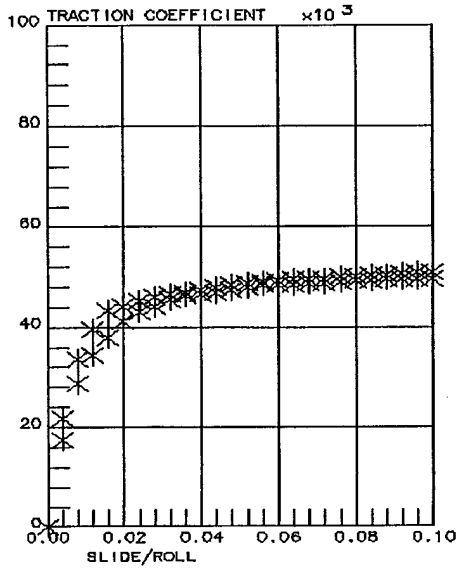
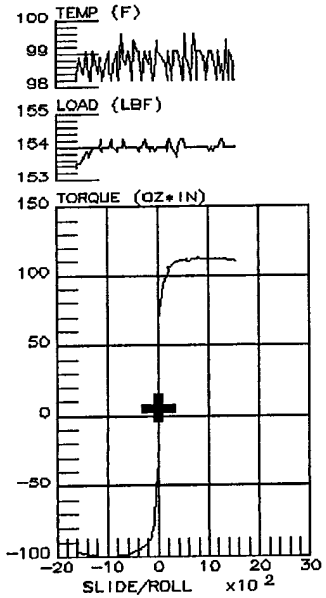


BO 81-288 ApiezonC+5%Bardhal(VacKote) #163
100F 154LBF 1273RPM 12 FILE: 81-288bo100



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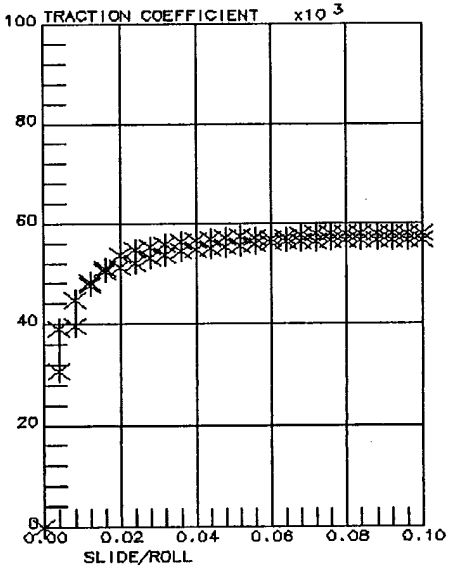
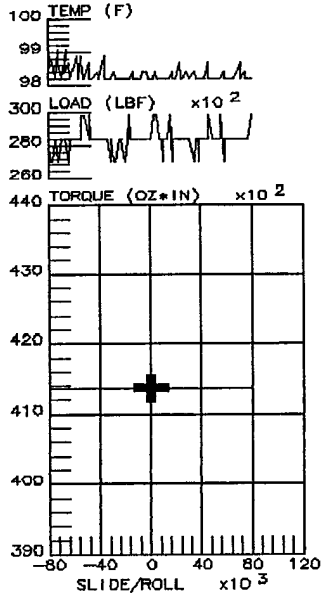


BO 81-288 ApiezonC+5%Bardhal(VacKote) #164
100F 3LBF 2546RPM 13 FILE: 81-288bo100



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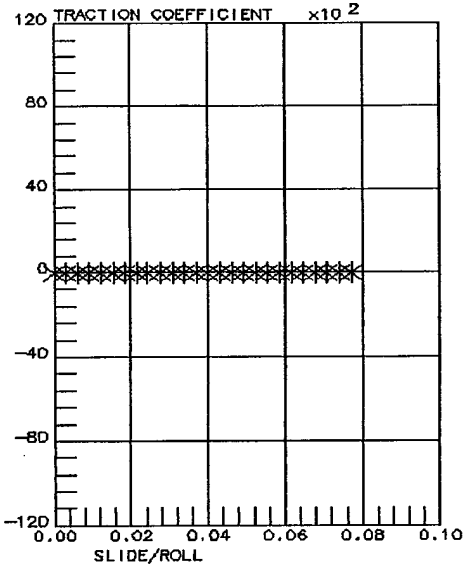
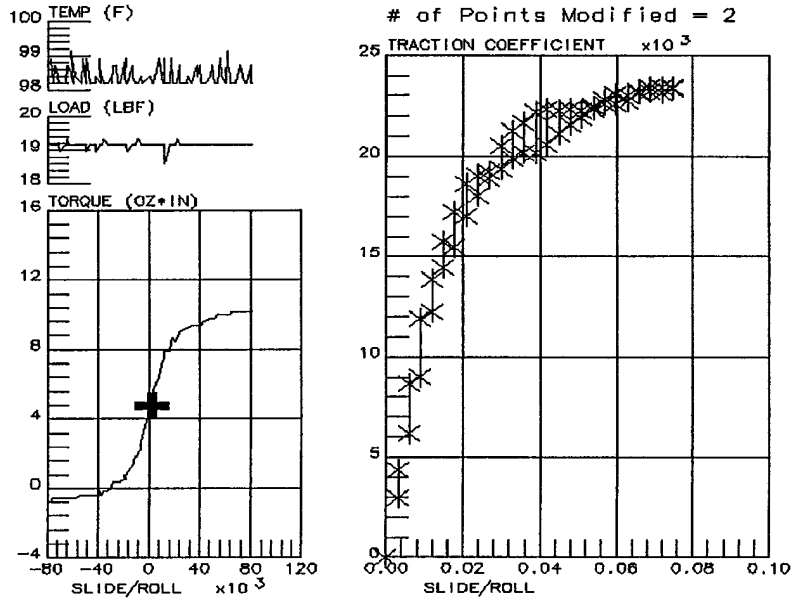
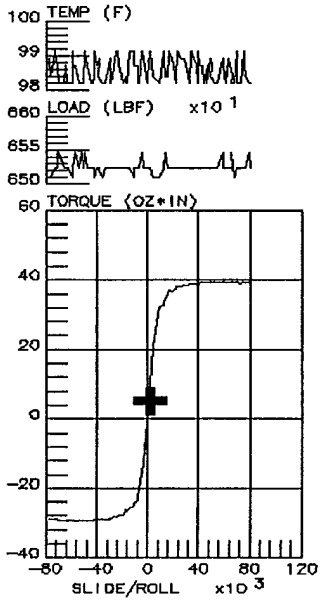
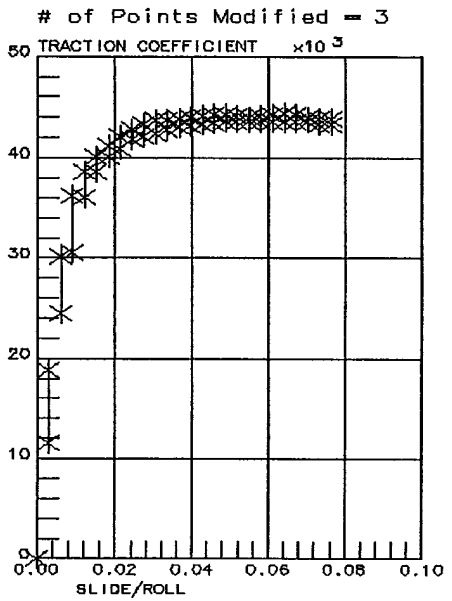


BO 81-288 ApiezonC+5%Bardhal(VacKote) #165
100F 19LBF 2546RPM 14 FILE: 81-288bo100

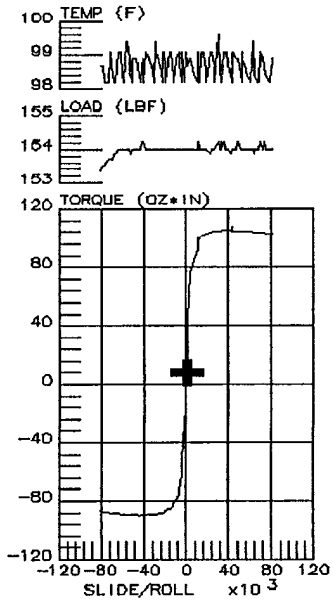


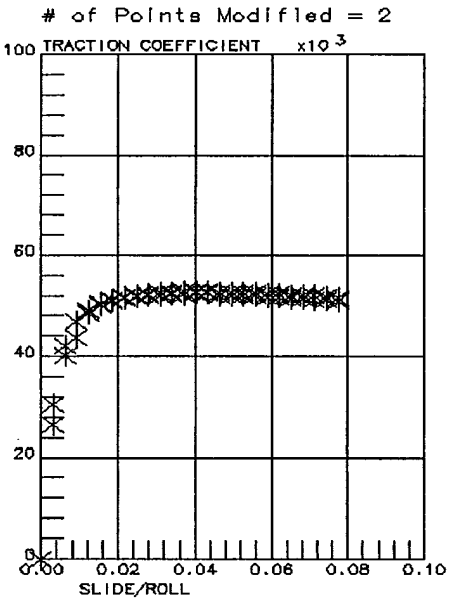
BO 81-288 ApiezonC+5%Bardhal(VacKote) #166
100F 65LBF 2546RPM 15 FILE: 81-288bo100



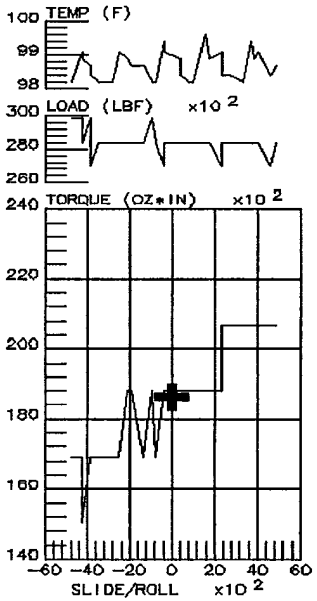


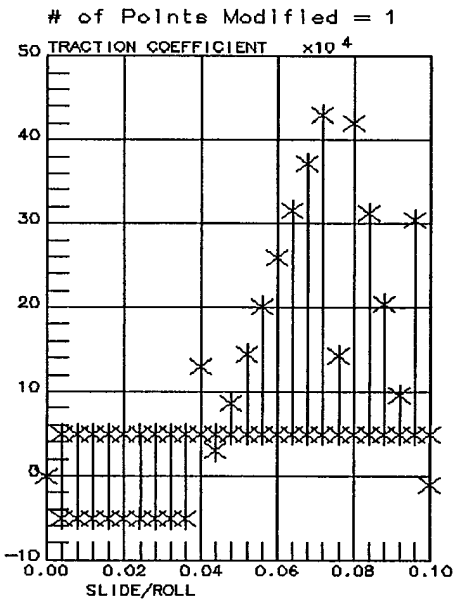
BO 81-288 ApiezonC+5%Bardhal(VacKote) #167
100F 154LBF 2546RPM 16 FILE: 81-288bo100



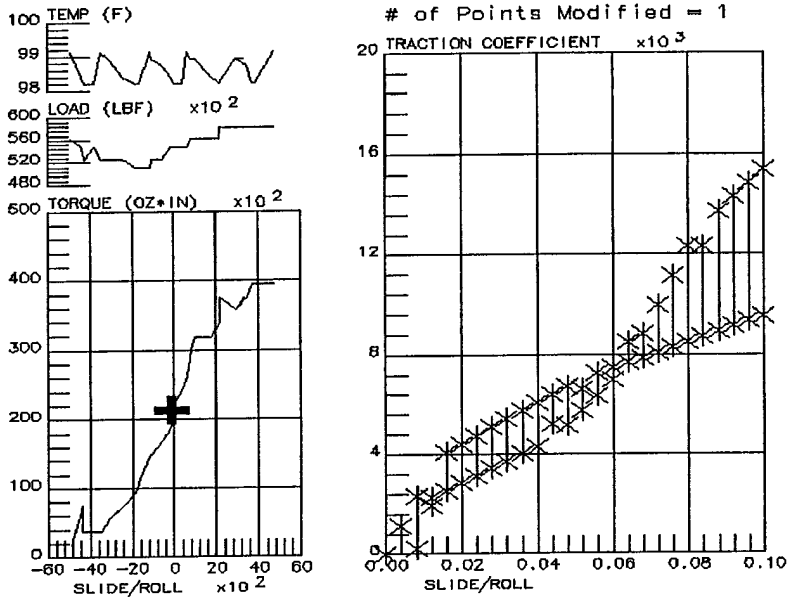


BO 81-288 ApiezonC+5%Bardhal(VacKote) #168
100F 3LBF 170RPM 1 FILE: 81-288bo100

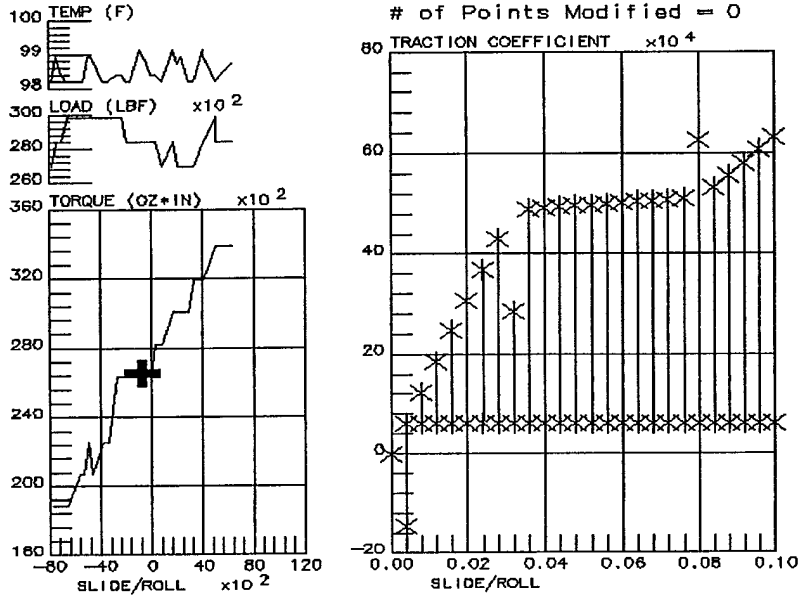




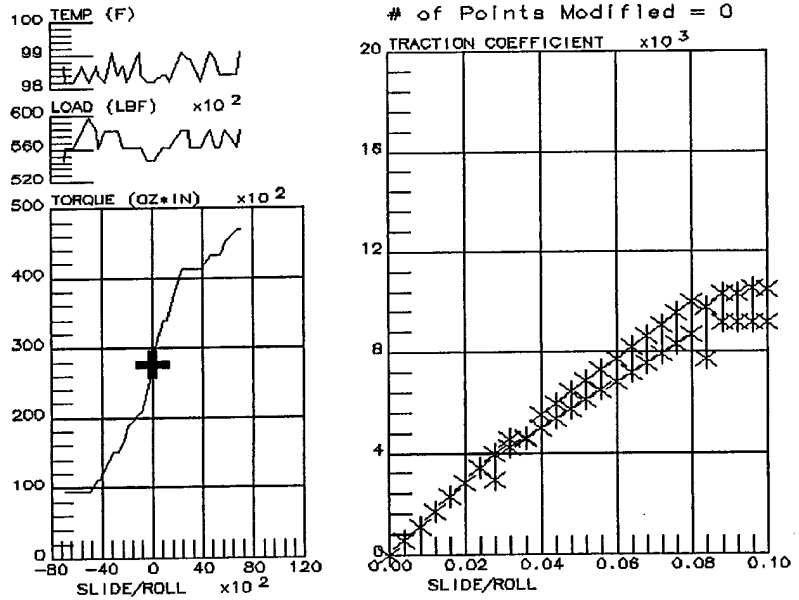
BO 81-288 ApiezonC+5%Bardhal(VacKote) #169
100F 6LBF 170RPM 2 FILE: 81-288bo100



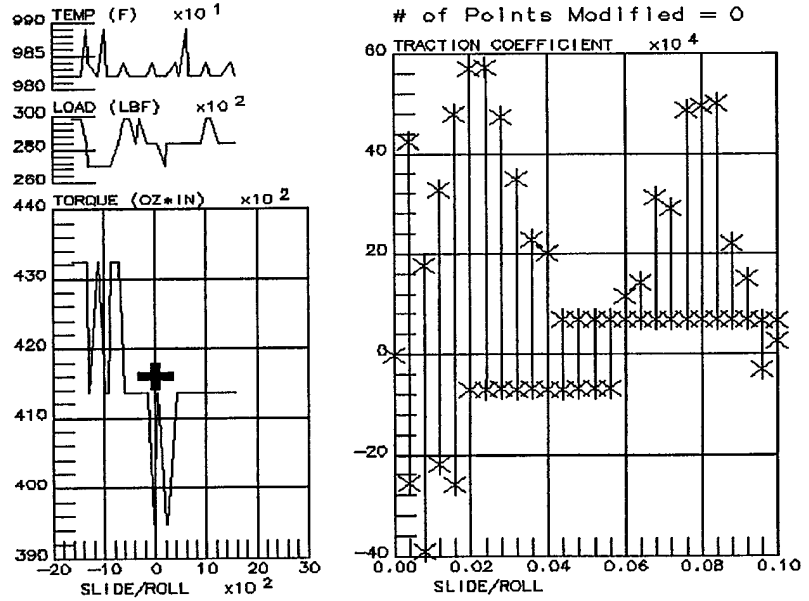
BO 81-288 ApiezonC+5%Bardhal(VacKote) #170
100F 3LBF 273RPM 3 FILE: 81-288bo100



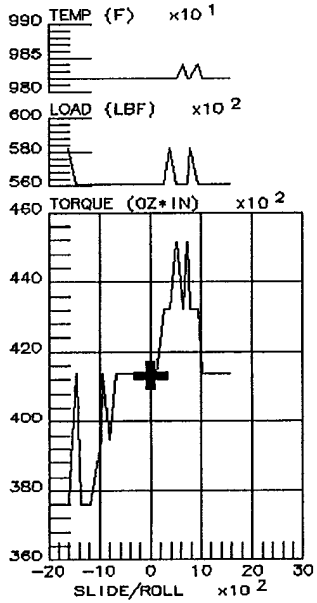
BO 81-288 ApiezonC+5%Bardhal(VacKote) #171
100F 6LBF 273RPM 4 FILE: 81-288bo100

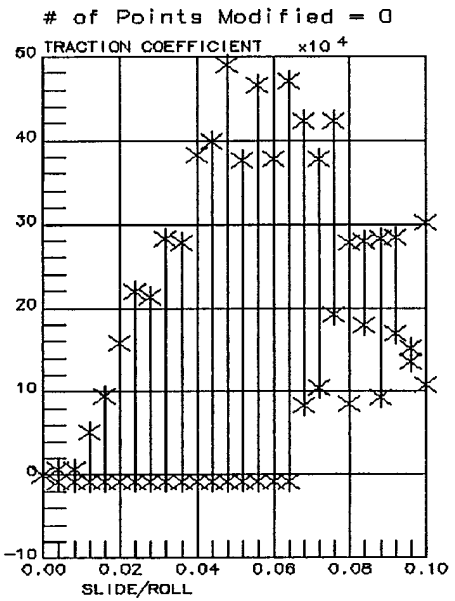


BO 81-288 ApiezonC+5%Bardhal(VacKote) #172
100F 3LBF 1273RPM 5 FILE: 81-288bo100

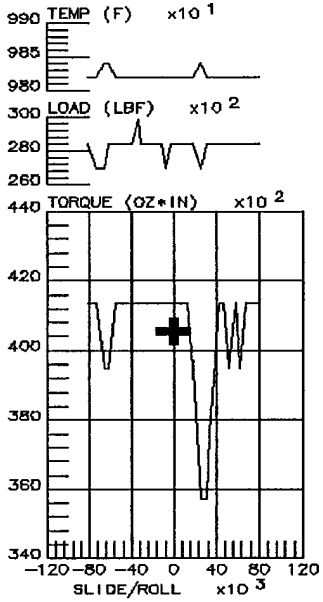


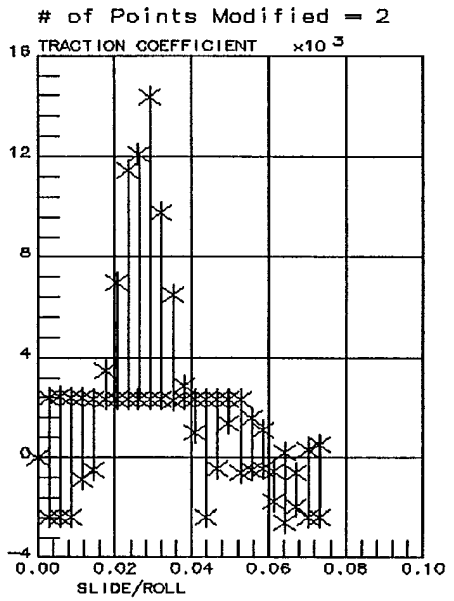
BO 81-288 ApiezonC+5%Bardhal(VacKote) #173
100F 6LBF 1273RPM 6 FILE: 81-288bo100



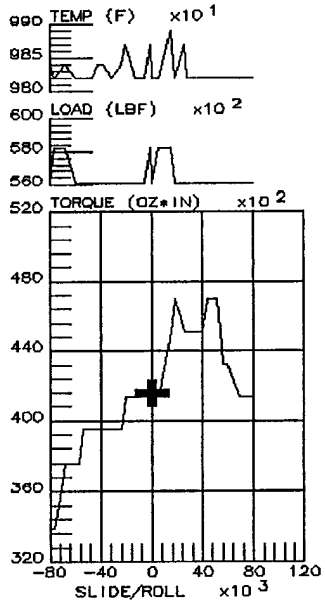


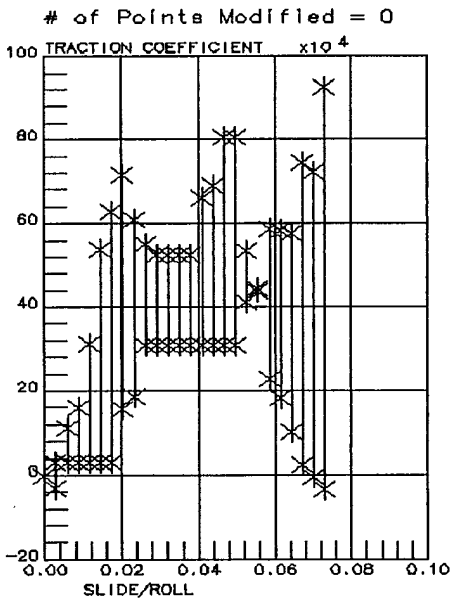
BO 81-288 ApiezonC+5%Bardhal(VacKote) #174
100F 3LBF 2546RPM 7 FILE: 81-288bo100



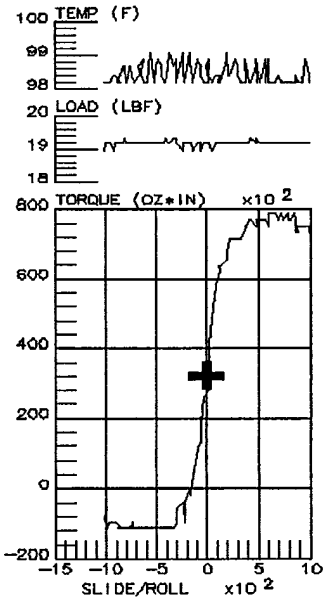


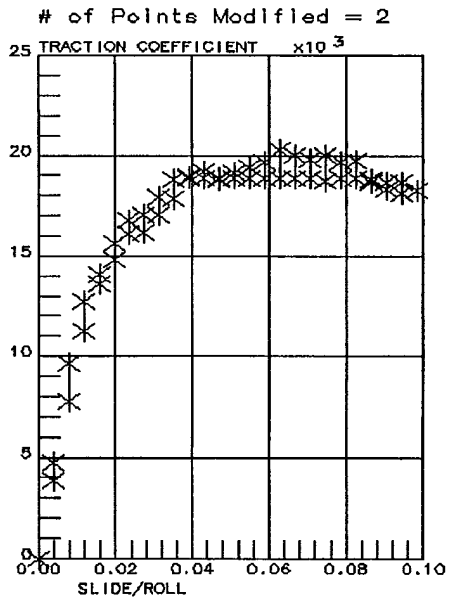
BO 81-288 ApiezonC+5%Bardhal(VacKote) #175
100F 6LBF 2546RPM 8 FILE: 81-288bo100



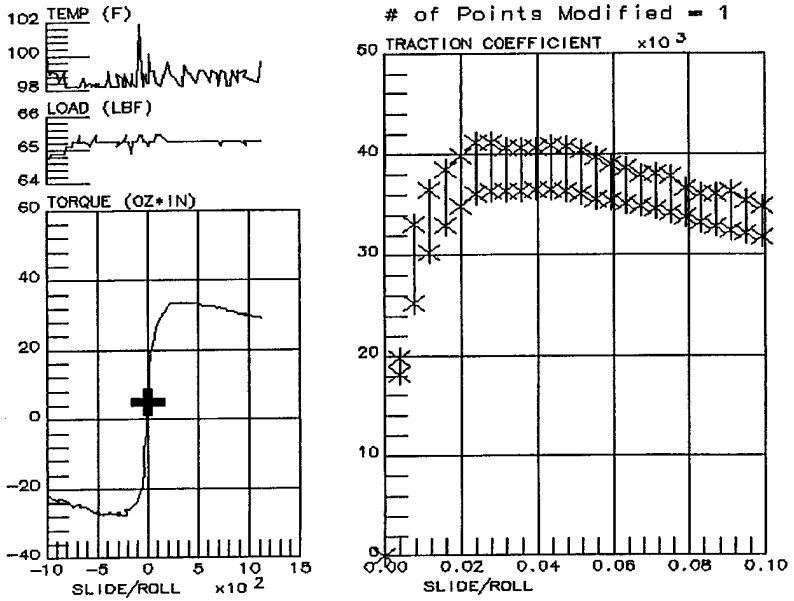


BO 81-288 ApiezonC+5%Bardhal(VacKote) #176
100F 19LBF 5093RPM 1 FILE: 81-288bo100

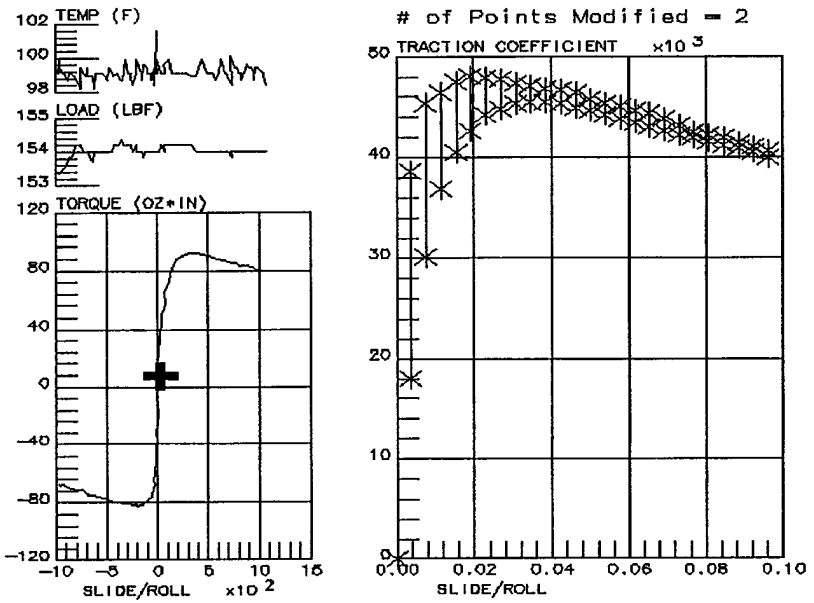




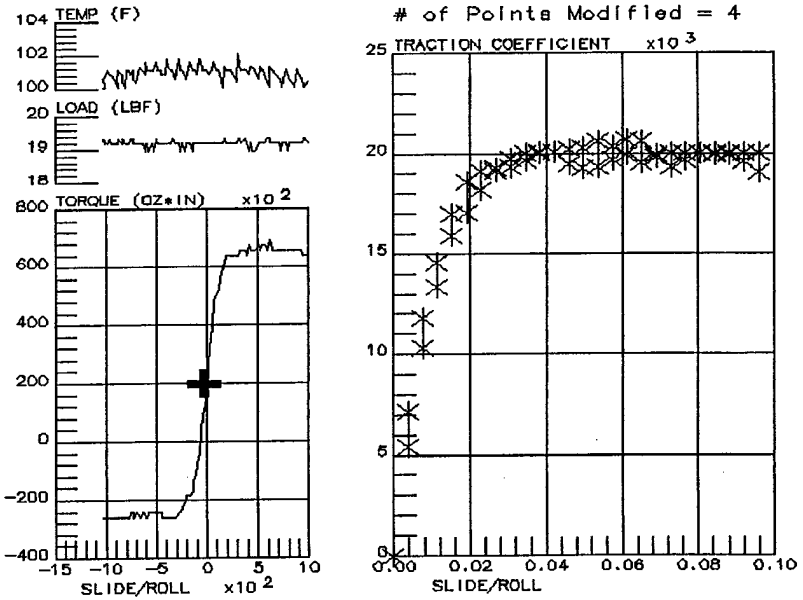
BO 81-288 ApiezonC+5%Bardhal(VacKote) #177
100F 85LBF 5093RPM 2 FILE: 81-288bo100



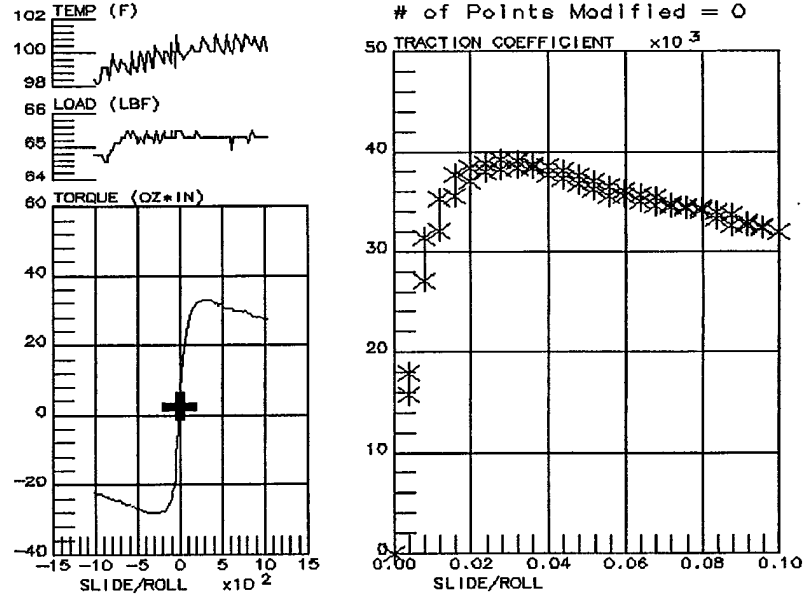
BO 81-288 ApiezonC+5%Bardhal(VacKote) #178
100F 154LBF 5093RPM 3 FILE: 81-288bo100



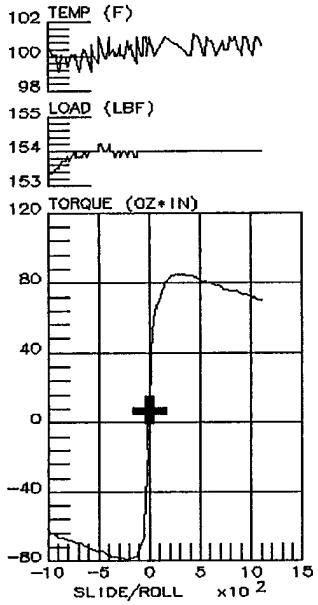
BO 81-288 ApiezonC+5%Bardhal(VacKote) #179
100F 19LBF 7639RPM 4 FILE: 81-288bo100

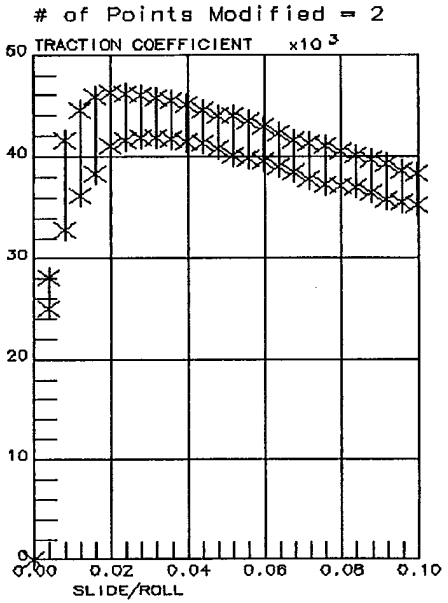


BO 81-288 ApiezonC+5%Bardhal(VacKote) #180
100F 65LBF 7639RPM 5 FILE: 81-288bo100

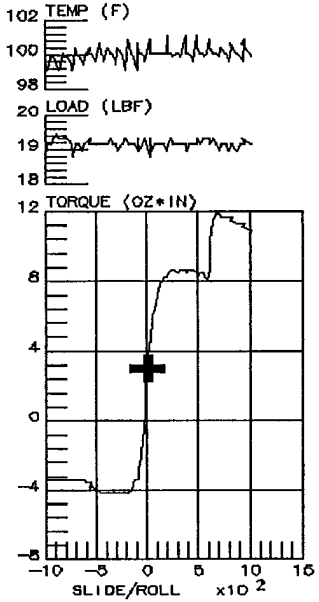


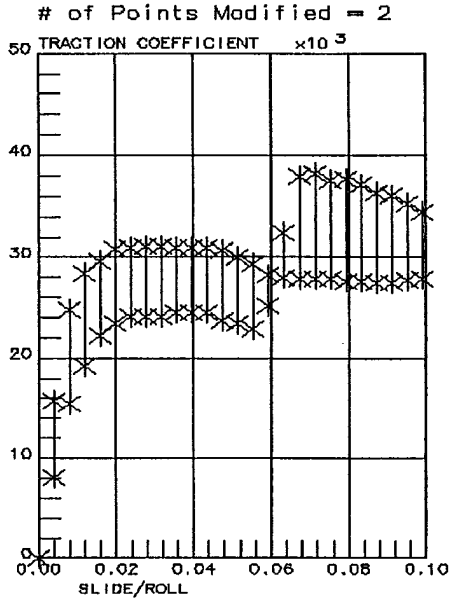
BO 81-288 ApiezonC+5%Bardhal(VacKote) #181
100F 154LBF 7639RPM 6 FILE: 81-288bo100



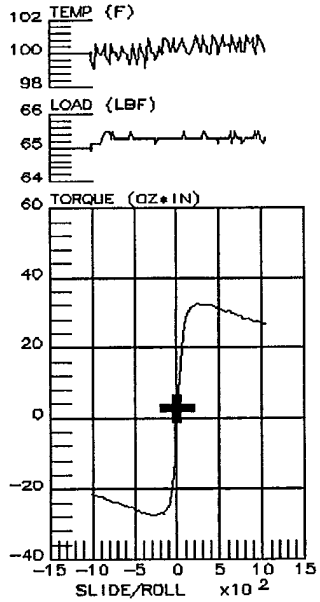


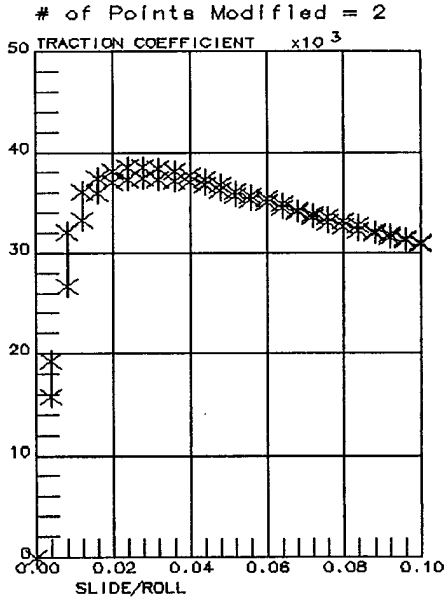
BO 81-288 ApiezonC+5%Bardhal(VacKote) #182
100F 19LBF 10186RPM 7 FILE: 81-288bo100



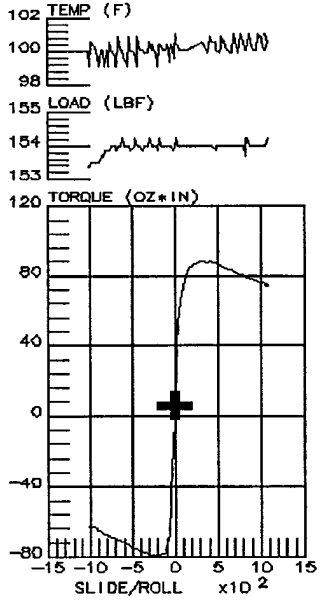


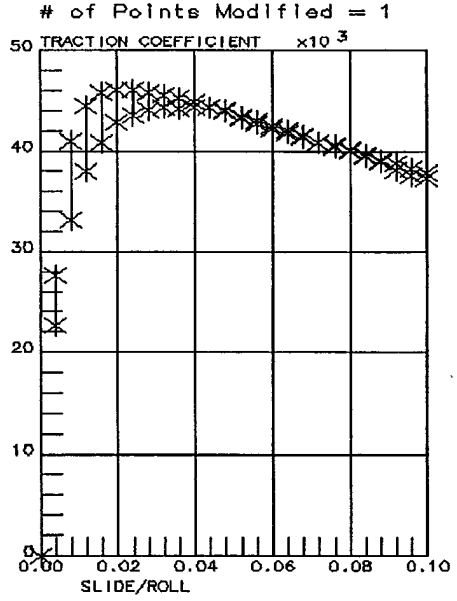
BO 81-288 ApiezonC+5%Bardhal(VacKote) #183
100F 65LBF 10186RPM 8 FILE: 81-288bo100



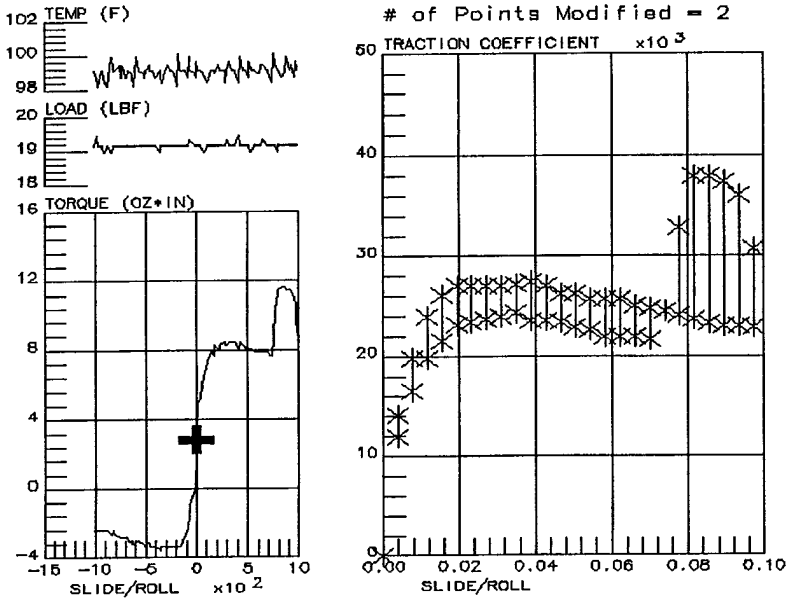


BO 81-288 ApiezonC+5%Bardhal(VacKote) #184
100F 154LBF 10186RPM 9 FILE: 81-288bo100

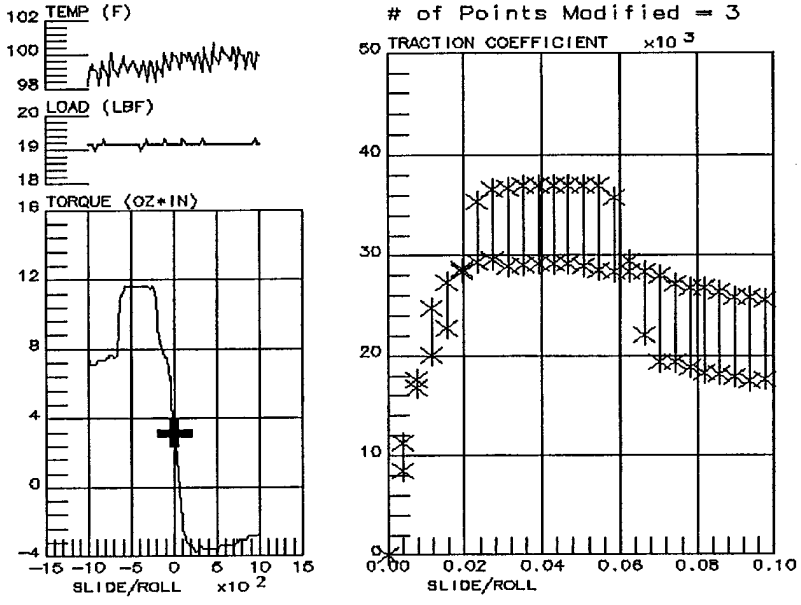




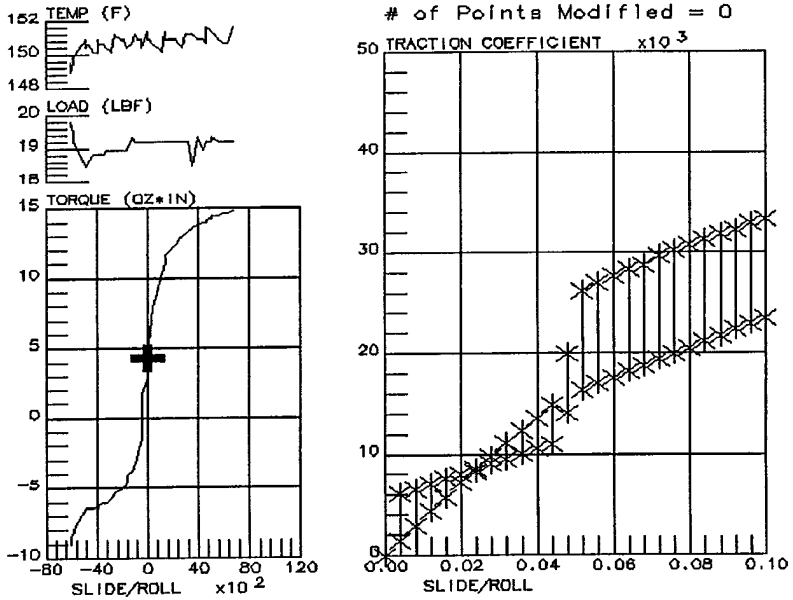
BO 81-288 ApiezonC+5%Bardhal(VacKote) #185
100F 19LBF 10186RPM 1 FILE: 81-288bo100



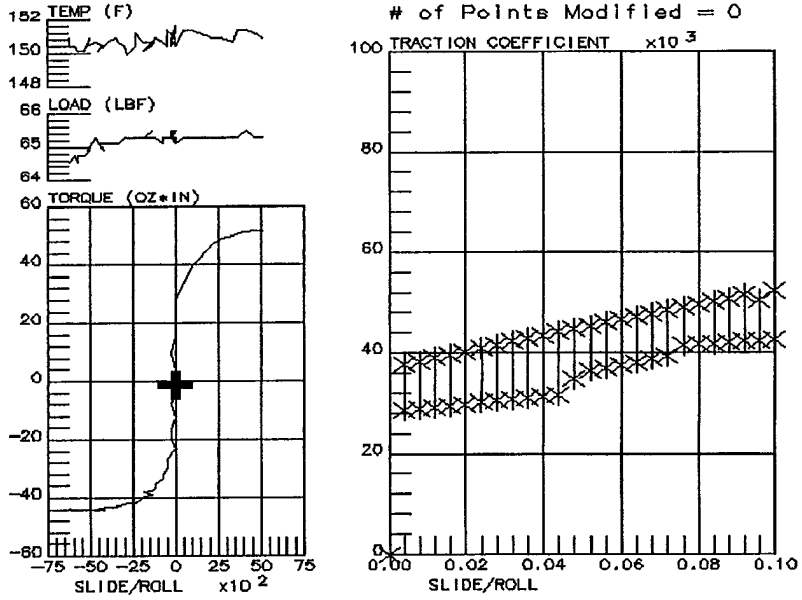
BO 81-288 ApiezonC+5%Bardhal(VacKote) #186
100F 19LBF 10186RPM 2 FILE: 81-288bo100



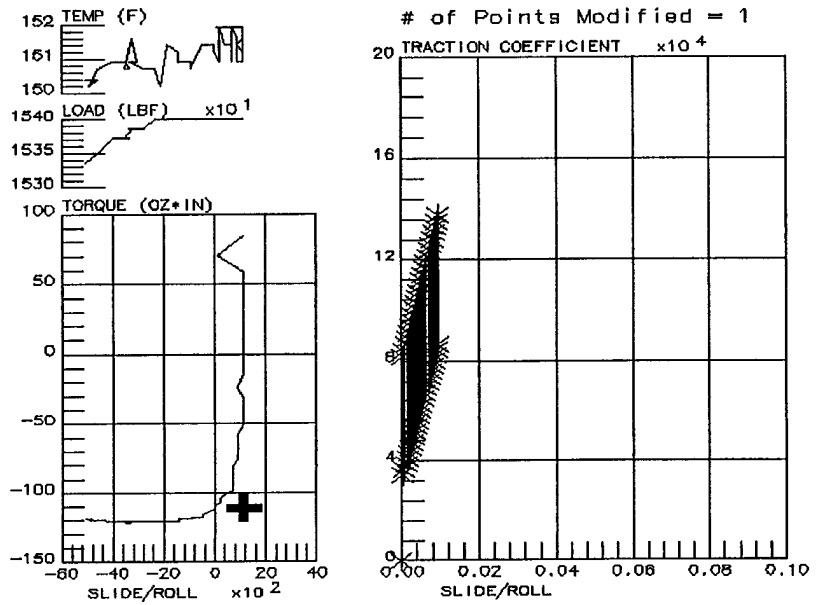
BO 81-288 ApiezonC+5%Bardhal(VacKote) #187
150F 19LBF 318RPM 1 FILE: 81-288bo150



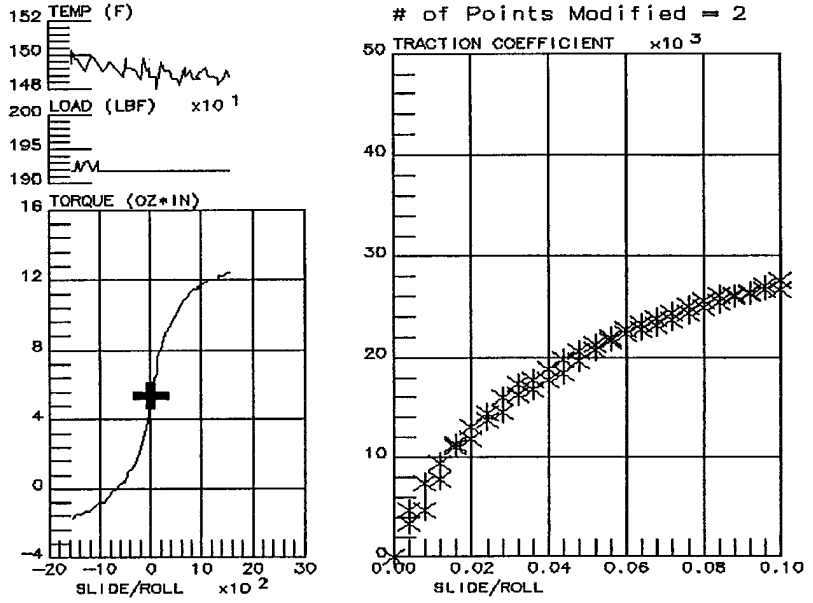
BO 81-288 ApiezonC+5%Bardhal(VacKote) #188
150F 65LBF 318RPM 2 FILE: 81-288bo150



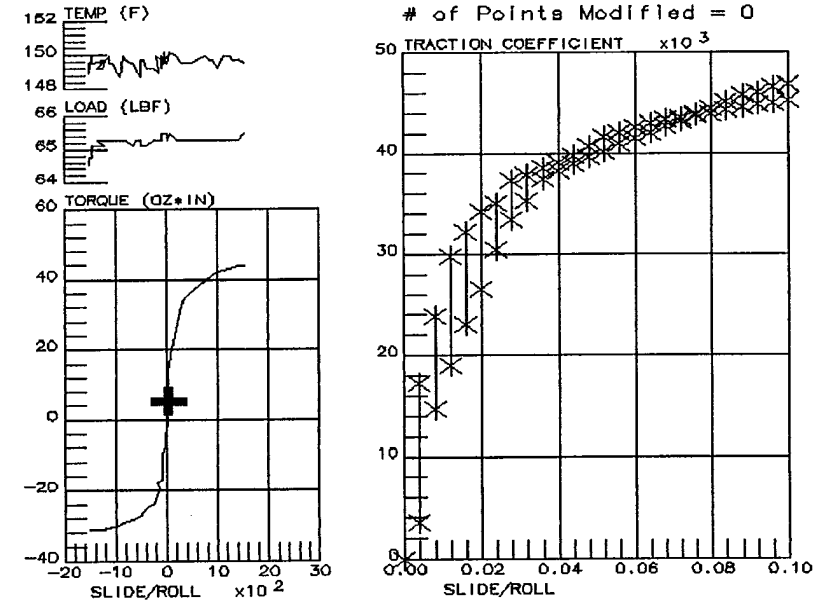
BO 81-288 ApiezonC+5%Bardhal(VacKote) #189
150F 154LBF 318RPM 3 FILE: 81-288bo150



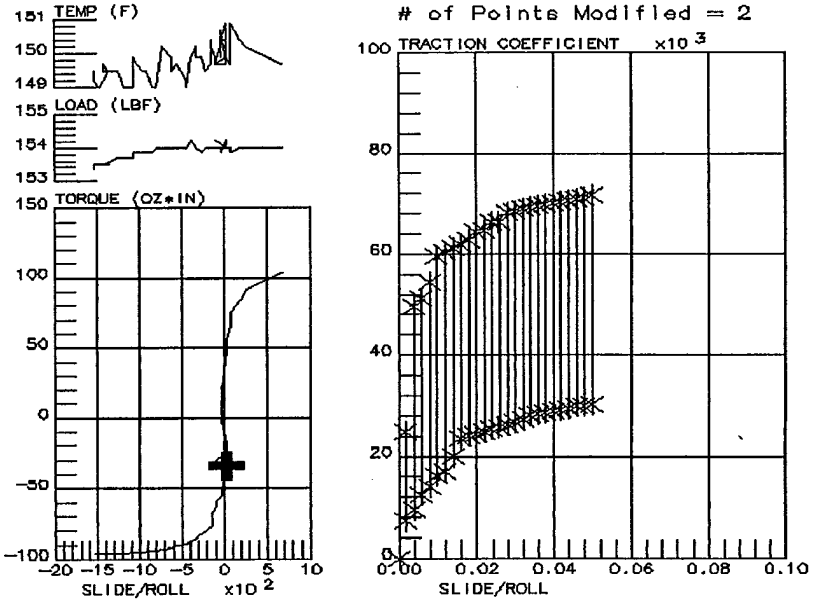
BO 81-288 ApiezonC+5%Bardhal(VacKote) #190
150F 19LBF 1273RPM 4 FILE: 81-288bo150



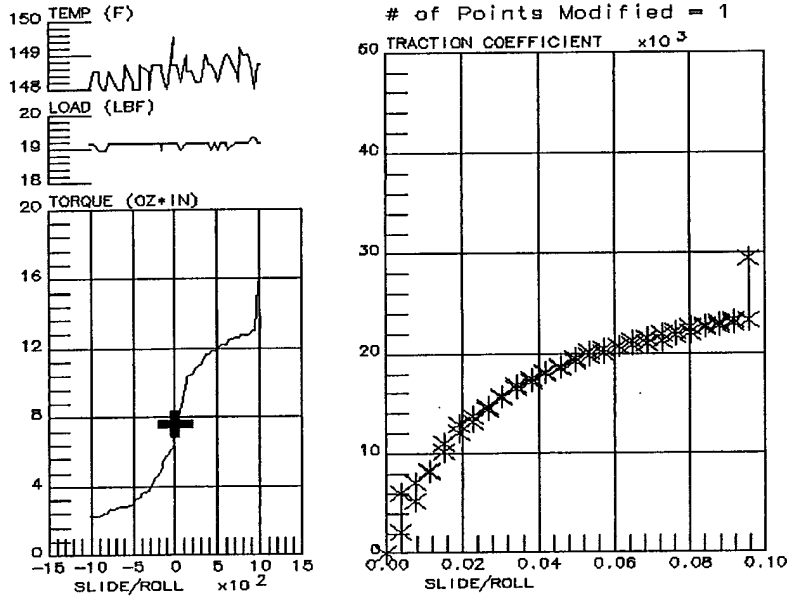
BO 81-288 ApiezonC+5%Bardhal(VacKote) #191
150F 65LBF 1273RPM 5 FILE: 81-288bo150



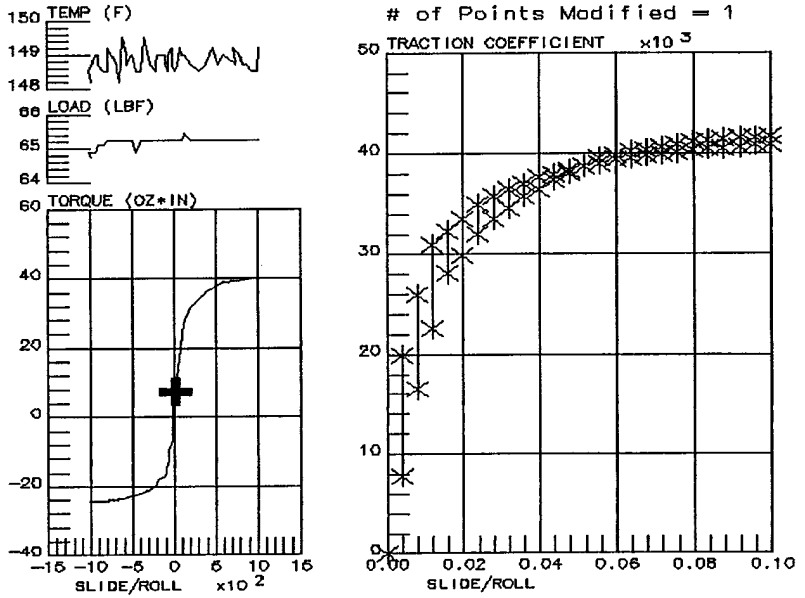
BO 81-288 ApiezonC+5%Bardhal(VacKote) #192
150F 154LBF 1273RPM 6 FILE: 81-288bo150



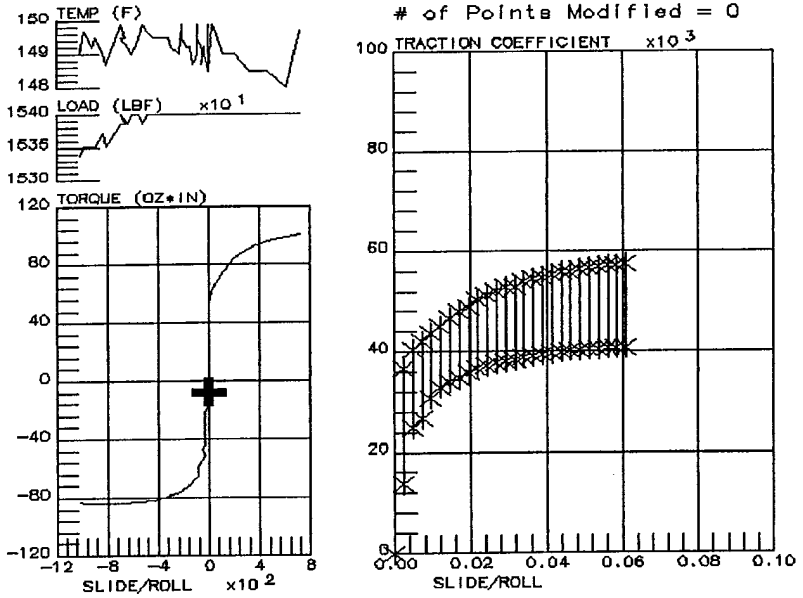
BO 81-288 ApiezonC+5%Bardhal(VacKote) #193
150F 19LBF 2546RPM 7 FILE: 81-288bo150



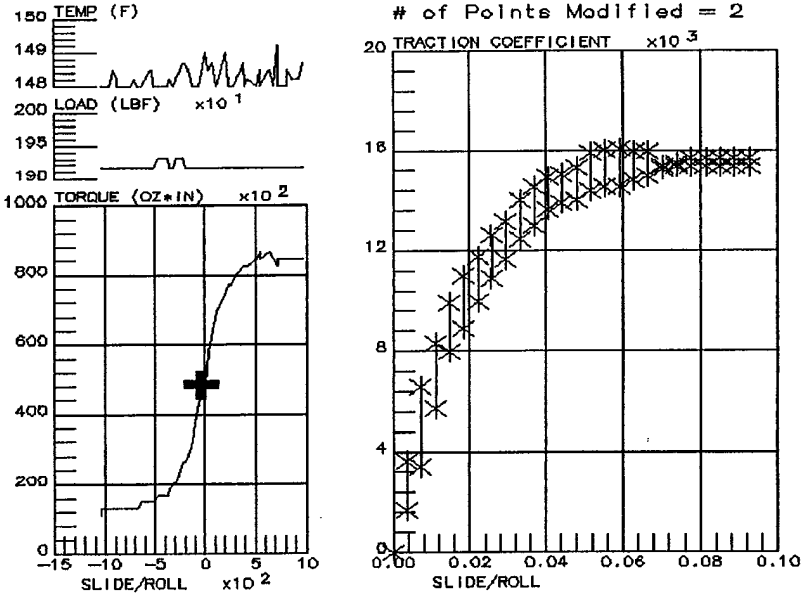
BO 81-288 ApiezonC+5%Bardhal(VacKote) #194
150F 65LBF 2546RPM 8 FILE: 81-288bo150



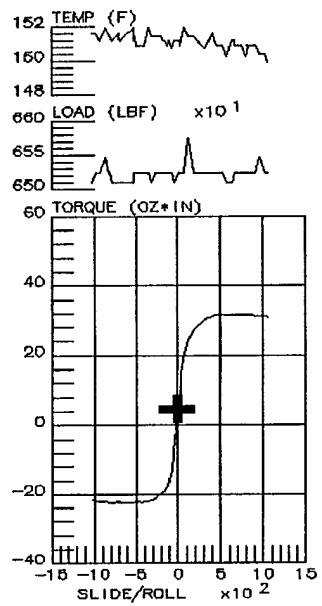
BO 81-288 ApiezonC+5%Bardhal(VacKote) #195
150F 154LBF 2546RPM 9 FILE: 81-288bo150

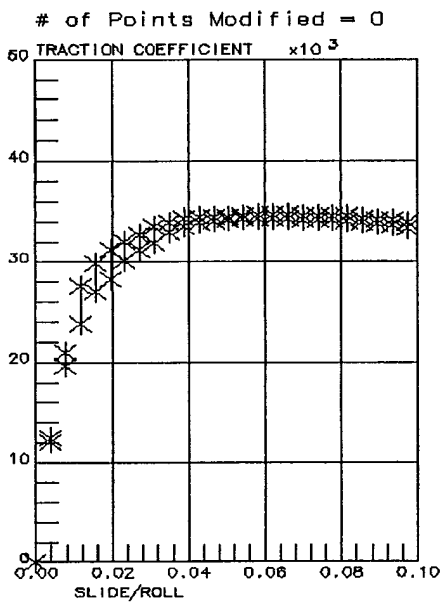


BO 81-288 ApiezonC+5%Bardhal(VacKote) #196
150F 19LBF 5093RPM 10 FILE: 81-288bo150

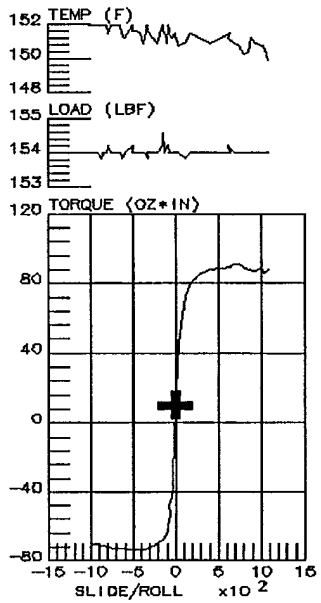


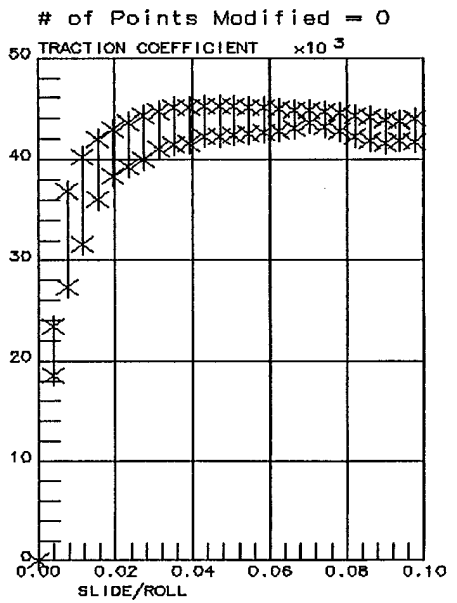
BO 81-288 ApiezonC+5%Bardhal(VacKote) #197
150F 85LBF 5093RPM 11 FILE: 81-288bo150



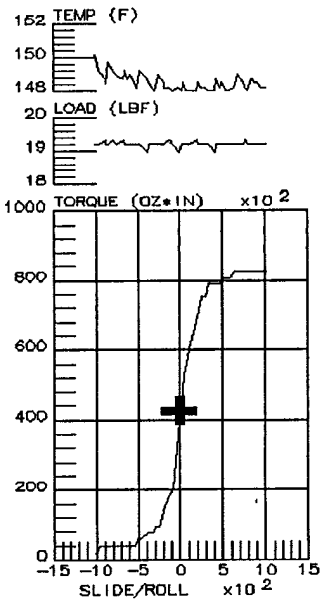


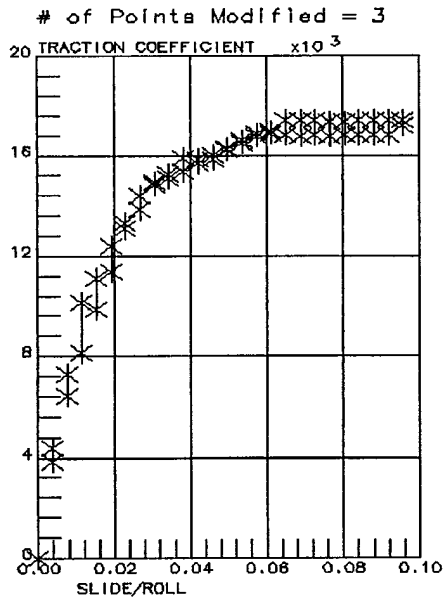
BO 81-288 ApiezonC+5%Bardhal(VacKote) #198
150F 154LBF 5093RPM 12 FILE: 81-288bo150



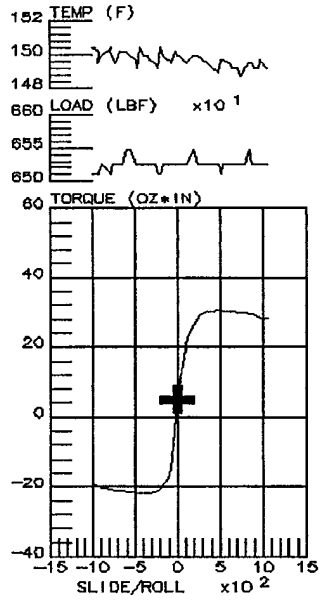


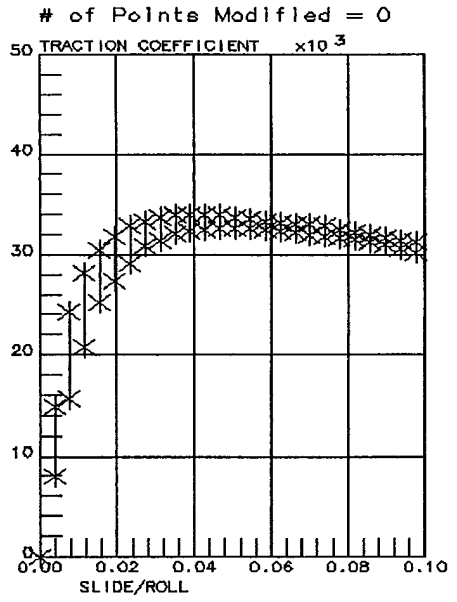
BO 81-288 ApiezonC+5%Bardhal(VacKote) #199
150F 19LBF 7639RPM 13 FILE: 81-288bo150



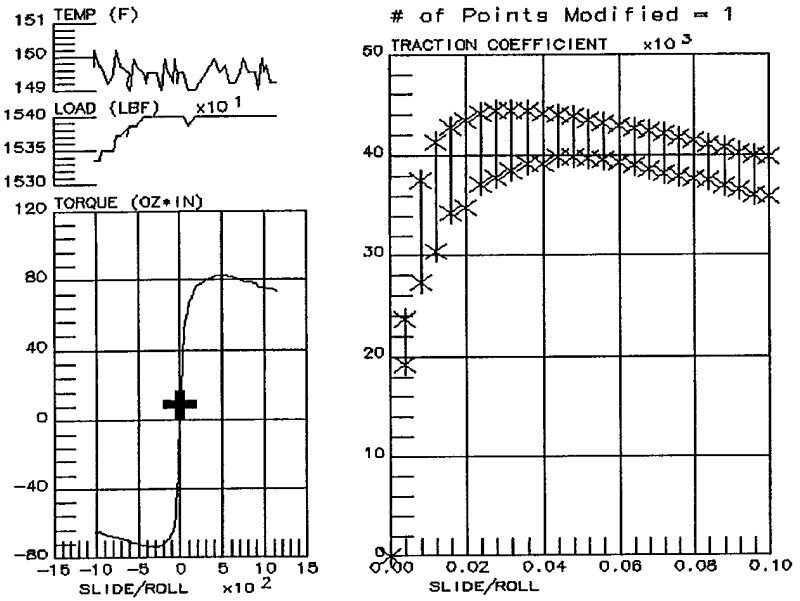


BO 81-288 ApiezonC+5%Bardhal(VacKote) #200
150F 85LBF 7639RPM 14 FILE: 81-288bo150

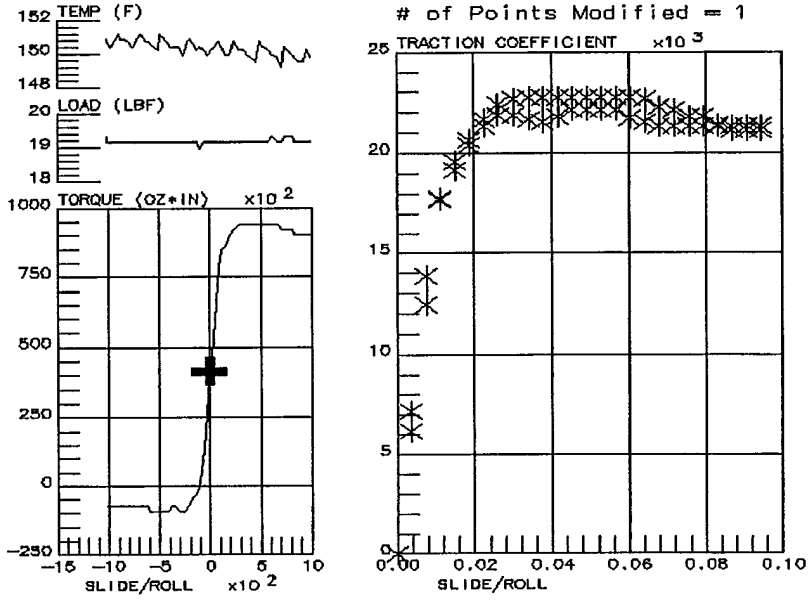




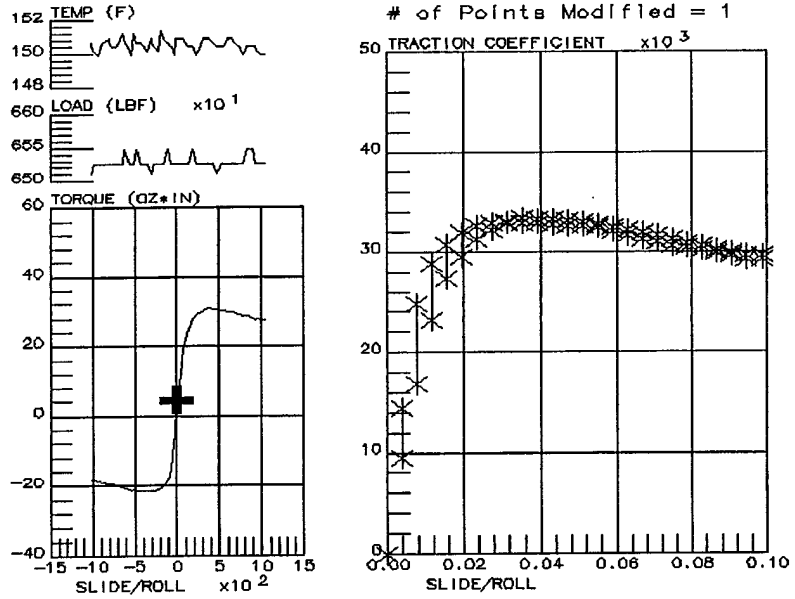
BO 81-288 ApiezonC+5%Bardhal(VacKote) #201
150F 154LBF 7639RPM 15 FILE: 81-288bo150



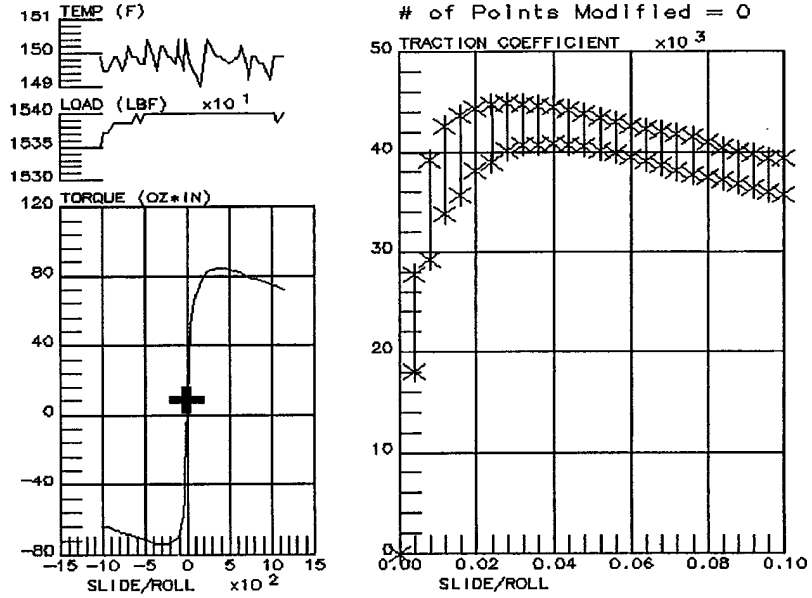
BO 81-288 ApiezonC+5%Bardhal(VacKote) #202
150F 19LBF 10186RPM 16 FILE: 81-288bo150



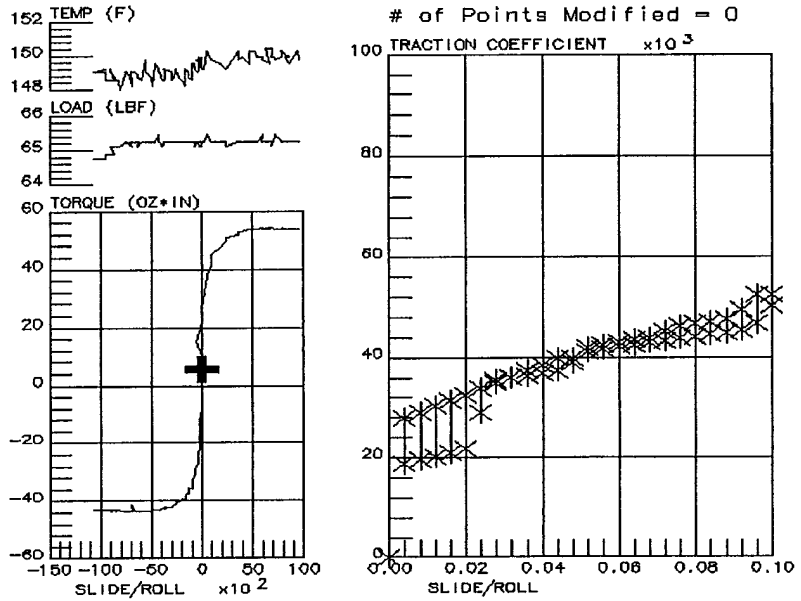
BO 81-288 ApiezonC+5%Bardhal(VacKote) #203
150F 65LBF 10186RPM 17 FILE: 81-288bo150



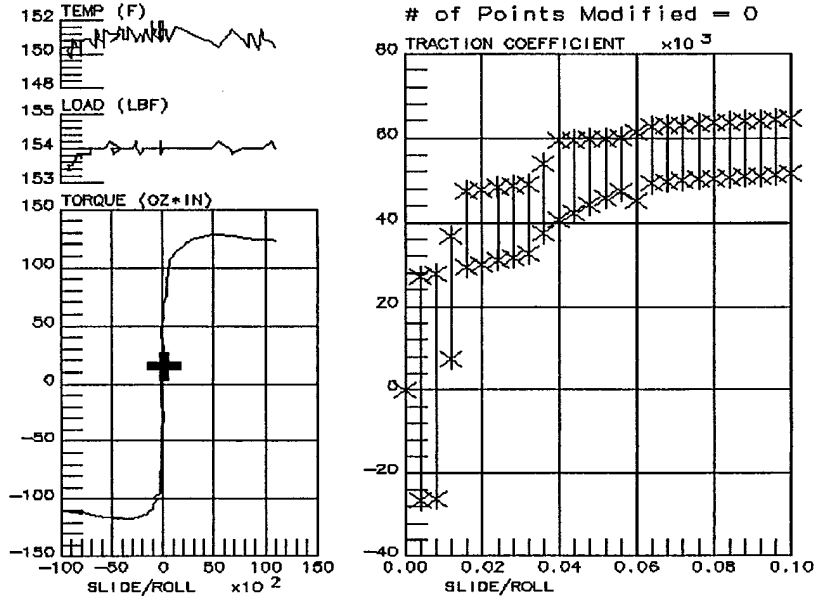
BO 81-288 ApiezonC+5%Bardhal(VacKote) #204
150F 154LBF 10186RPM 18 FILE: 81-288bo150



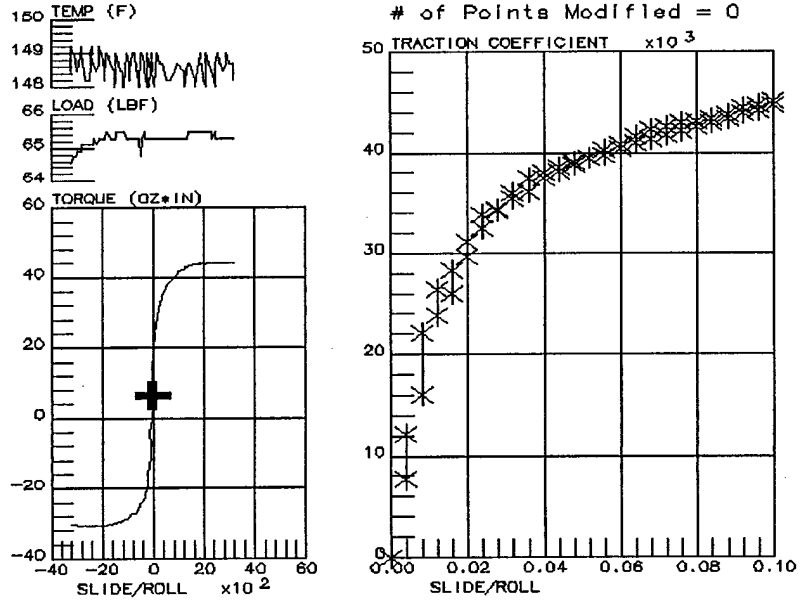
BO 81-288 ApiezonC+5%Bardhal(VacKote) #205
150F 65LBF 318RPM 1 FILE: 81-288bo150



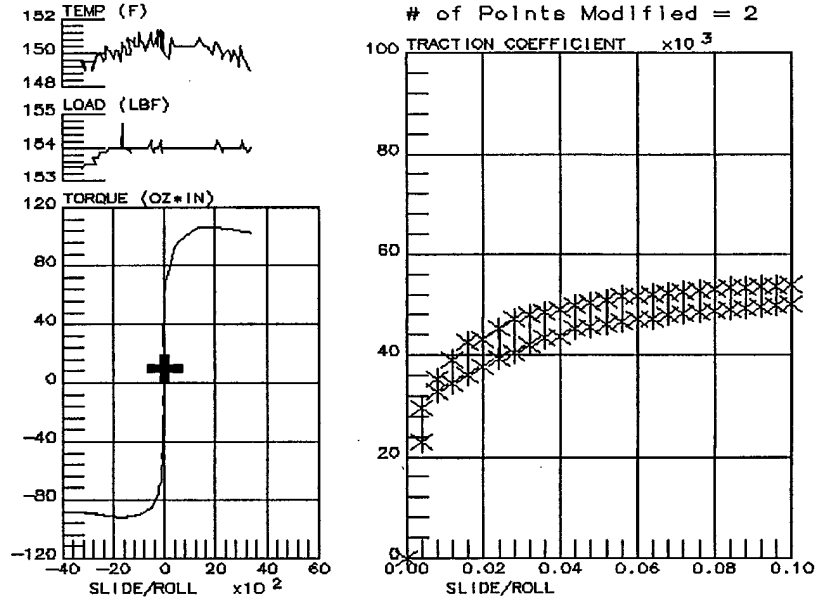
BO 81-288 ApiezonC+5%Bardhal(VacKote) #206
150F 154LBF 318RPM 2 FILE: 81-288bo150



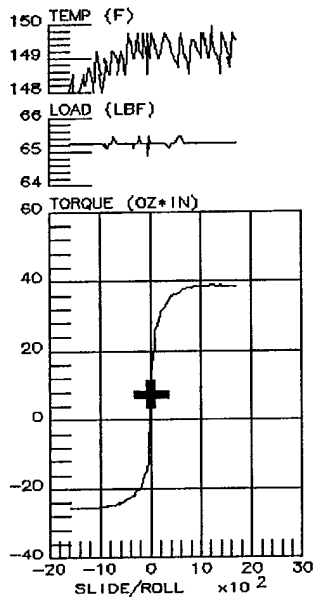
BO 81-288 ApiezonC+5%Bardhal(VacKote) #207
150F 65LBF 1273RPM 3 FILE: 81-288bo150

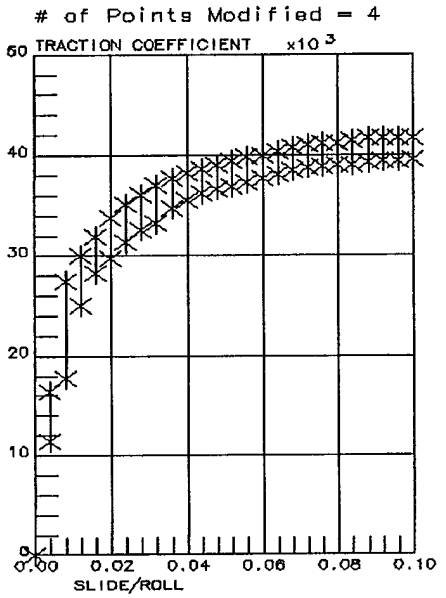


BO 81-288 ApiezonC+5%Bardhal(VacKote) #208
150F 154LBF 1273RPM 4 FILE: 81-288bo150

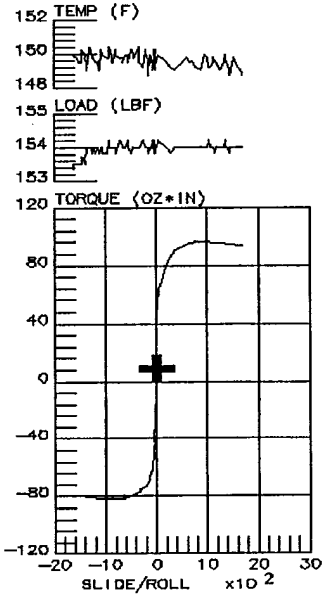


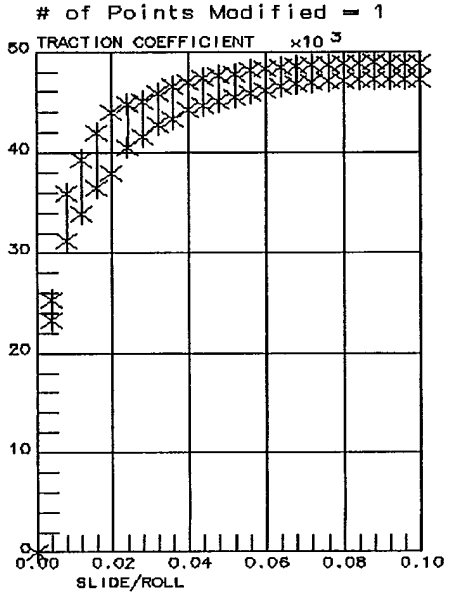
BO 81-288 ApiezonC+5%Bardhal(VacKote) #209
150F 85LBF 2546RPM 5 FILE: 81-288bo150



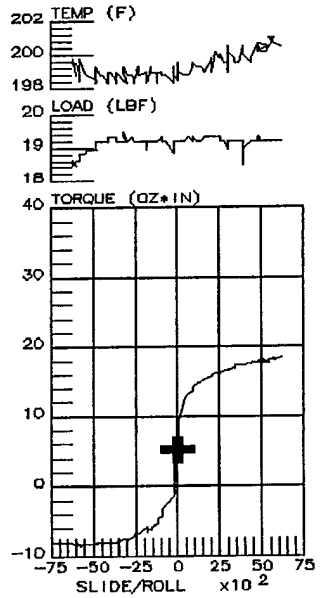


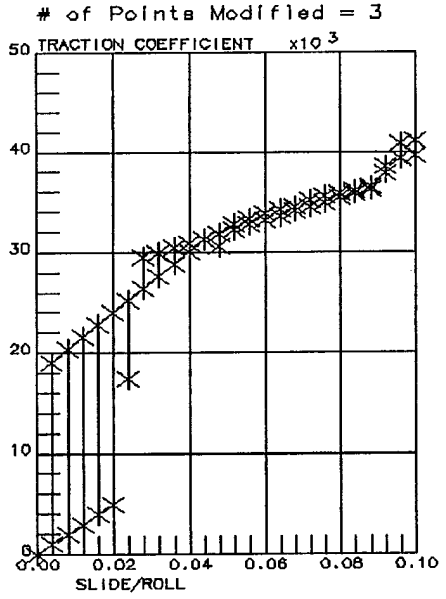
BO 81-288 ApiezonC+5%Bardhal(VacKote) #210
150F 154LBF 2546RPM 6 FILE: 81-288bo150



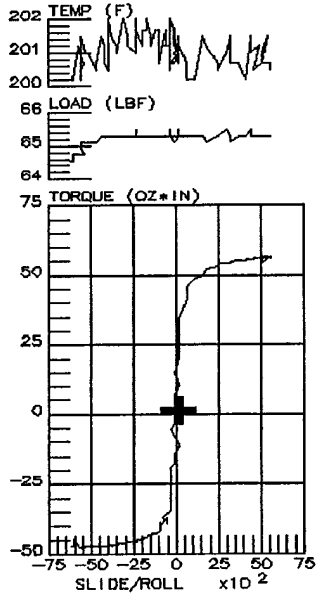


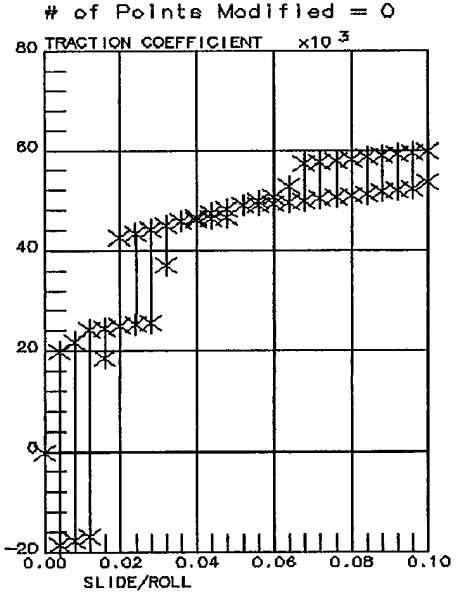
BO 81-288 ApiezonC+5%Bardhal(VacKote) #211
200F 19LBF 318RPM 1 FILE: 81-288bo200



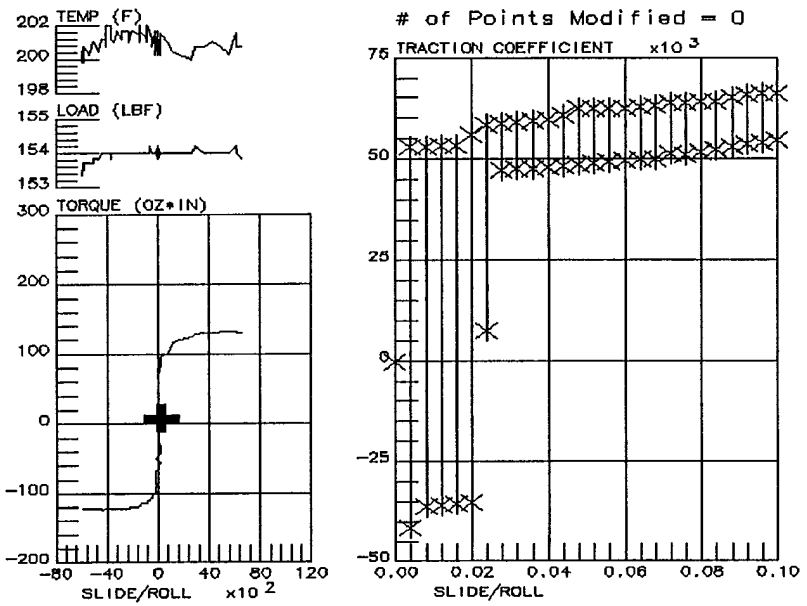


BO 81-288 ApiezonC+5%Bardhal(VacKote) #212
200F 65LBF 318RPM 2 FILE: 81-288bo200

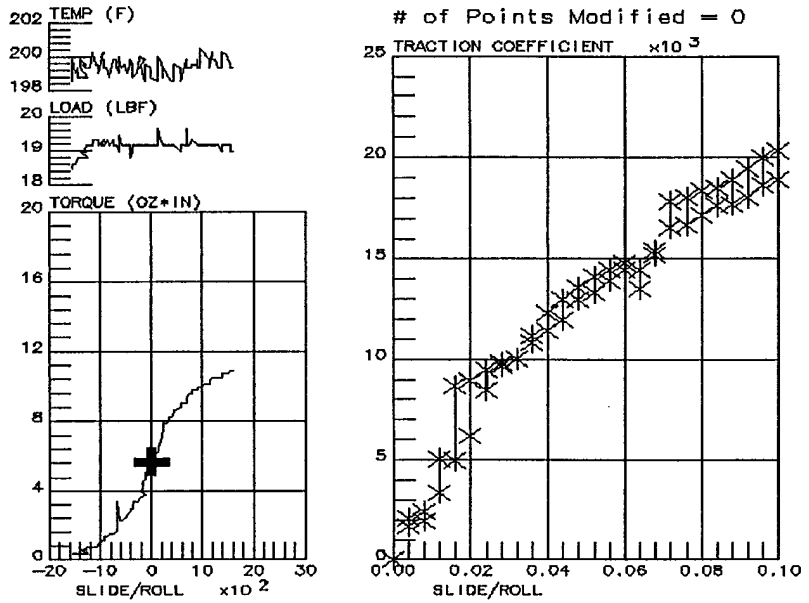




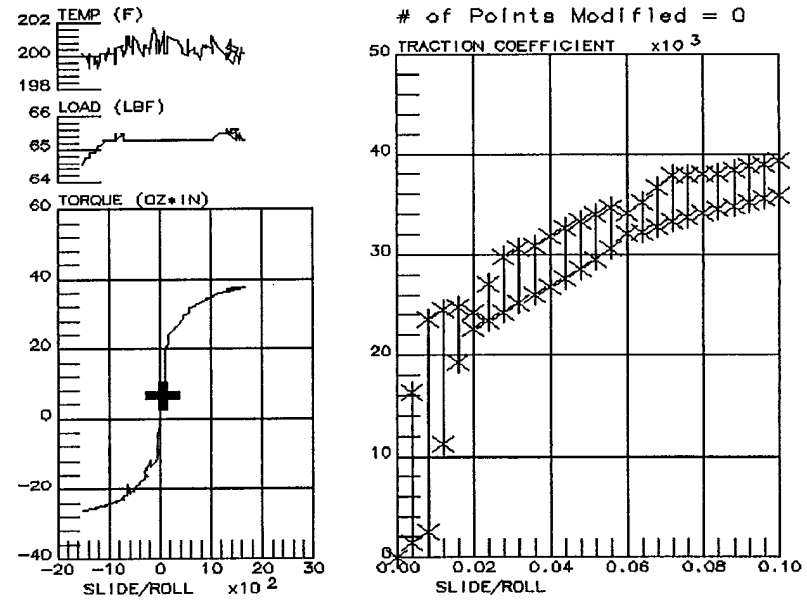
BO 81-288 ApiezonC+5%Bardhal(VacKote) #213
200F 154LBF 318RPM 3 FILE: 81-288bo200



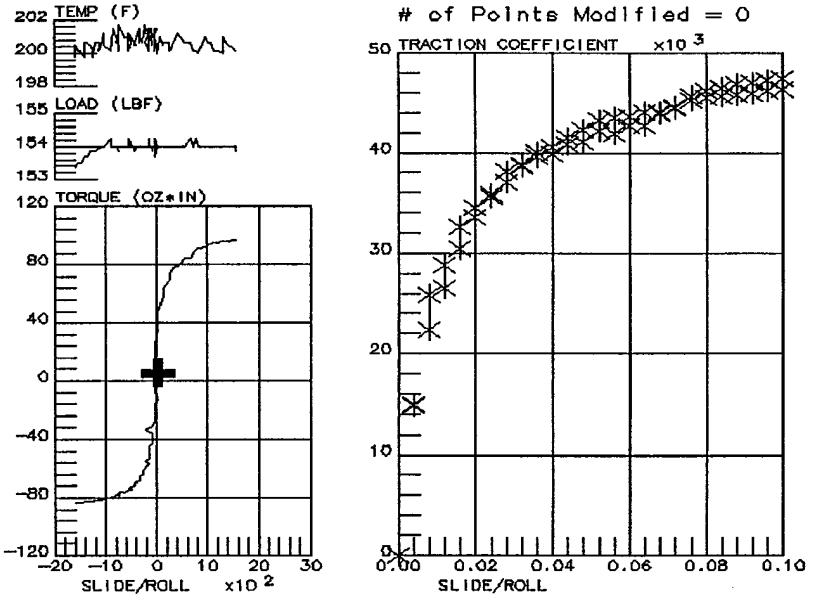
BO 81-288 ApiezonC+5%Bardhal(VacKote) #214
200F 19LBF 1273RPM 4 FILE: 81-288bo200



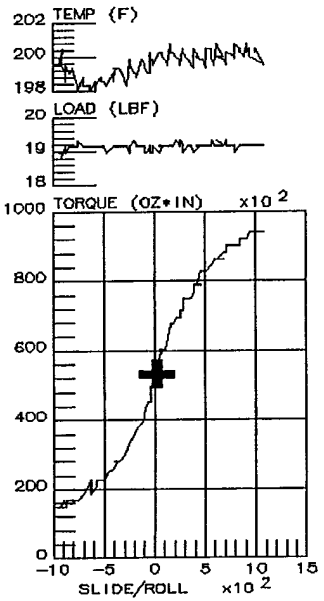
BO 81-288 ApiezonC+5%Bardhal(VacKote) #215
200F 65LBF 1273RPM 5 FILE: 81-288bo200



BO 81-288 ApiezonC+5%Bardhal(VacKote) #216
200F 154LBF 1273RPM 6 FILE: 81-288bo200



BO 81-288 ApiezonC+5%Bardhal(VacKote) #217
200F 19LBF 2546RPM 7 FILE: 81-288bo200



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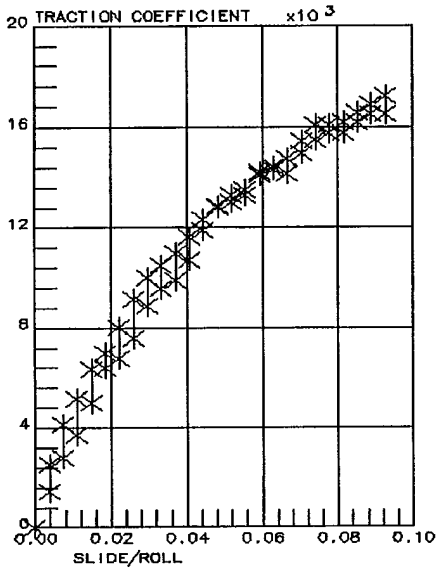
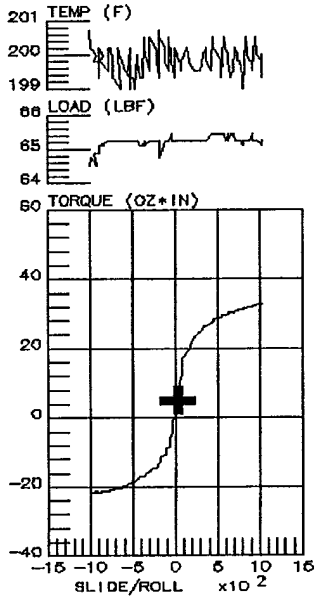


BO 81-288 ApiezonC+5%Bardhal(VacKote) #218
200F 65LBF 2546RPM 8 FILE: 81-288bo200



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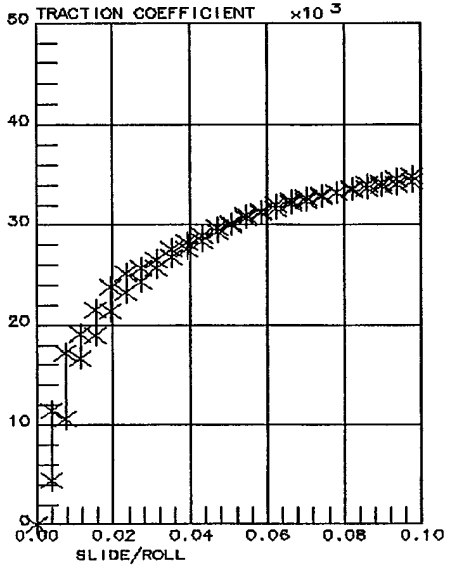
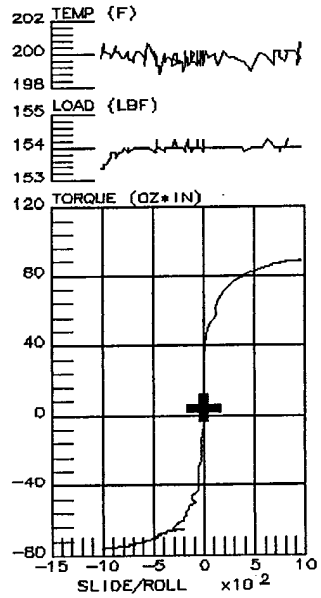


BO 81-288 ApiezonC+5%Bardhal(VacKote) #219
200F 154LBF 2546RPM 9 FILE: 81-288bo200



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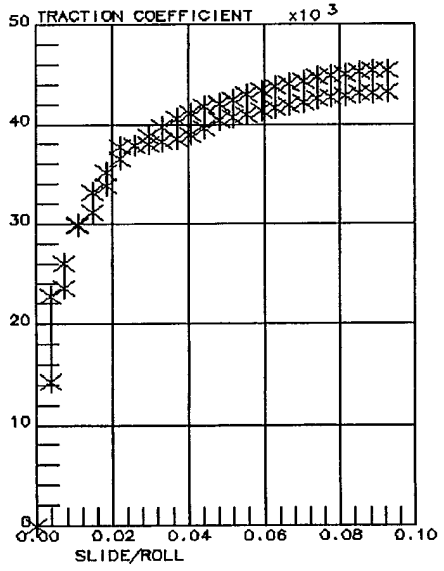
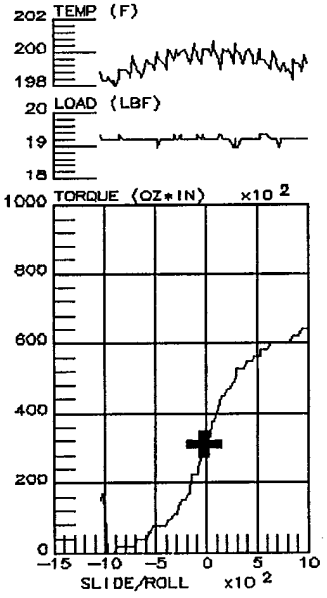


BO 81-288 ApiezonC+5%Bardhal(VacKote) #220
200F 19LBF 5093RPM 10 FILE: 81-288bo200



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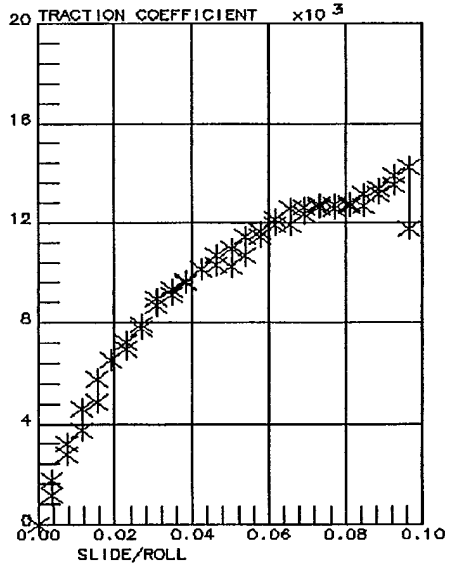
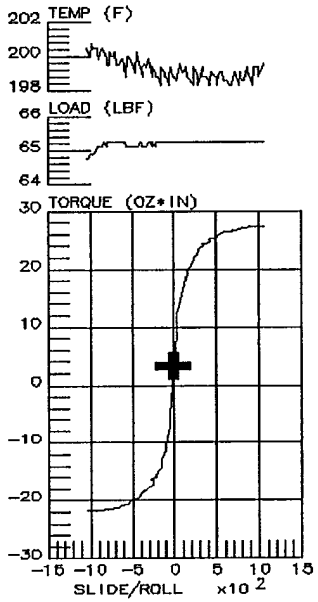
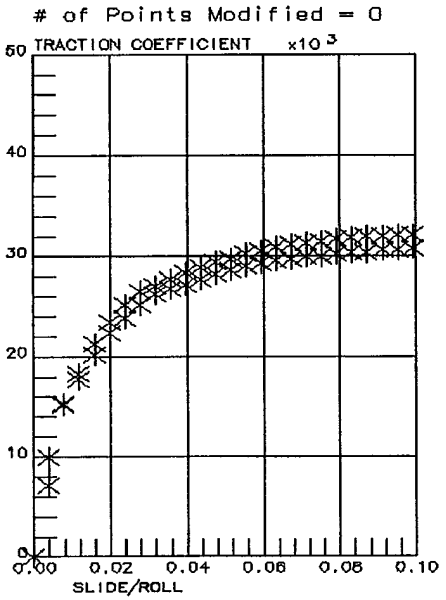
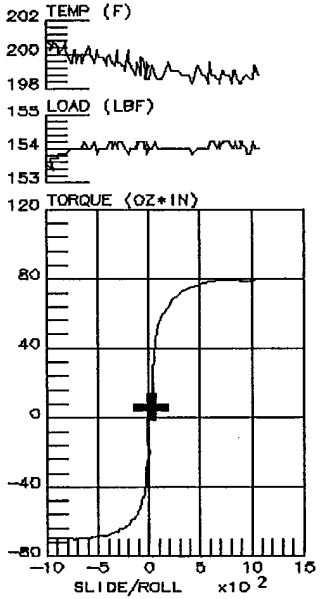


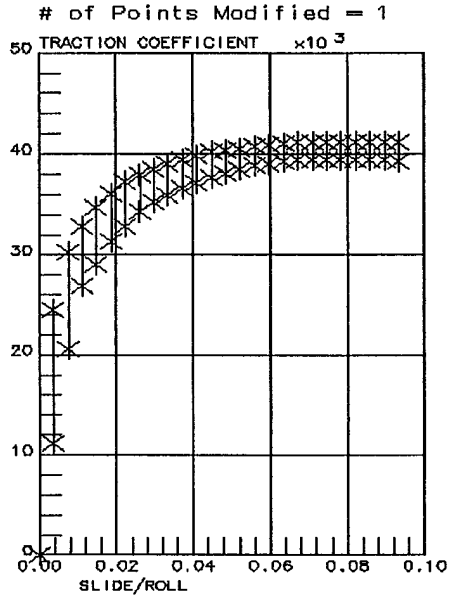
BO 81-288 ApiezonC+5%Bardhal(VacKote) #221
200F 65LBF 5093RPM 11 FILE: 81-288bo200



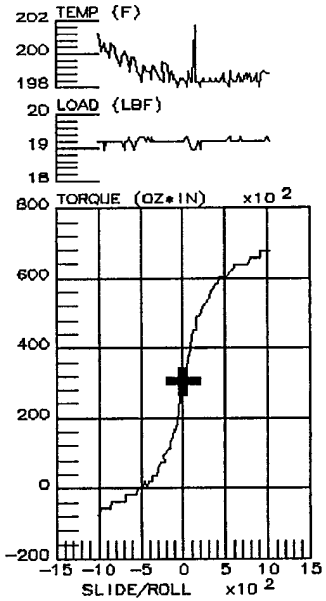


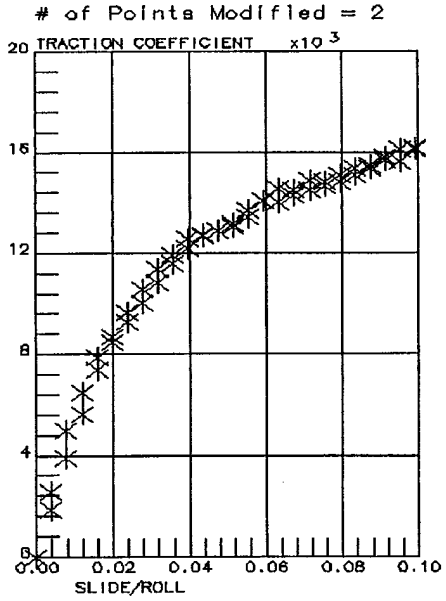
BO 81-288 ApiezonC+5%Bardhal(VacKote) #222
200F 154LBF 5093RPM 12 FILE: 81-288bo200



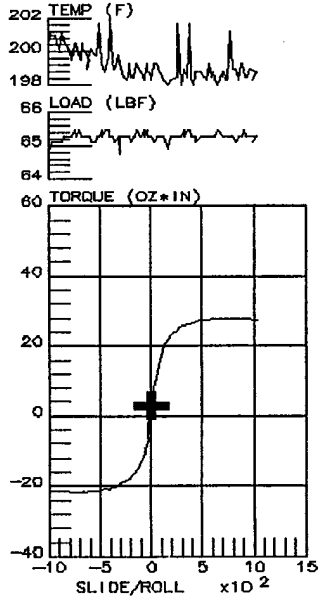


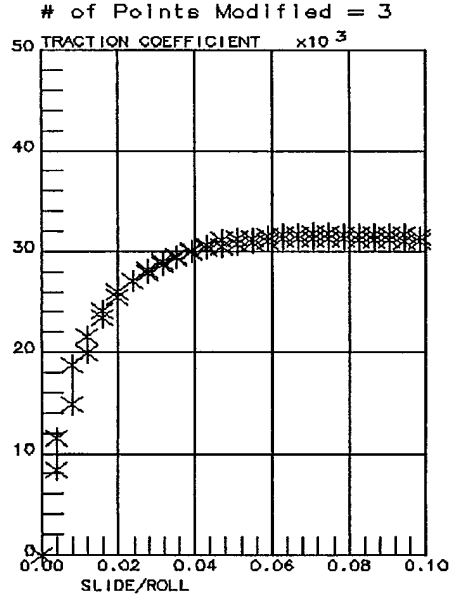
BO 81-288 ApiezonC+5%Bardhal(VacKote) #223
200F 19LBF 7639RPM 13 FILE: 81-288bo200



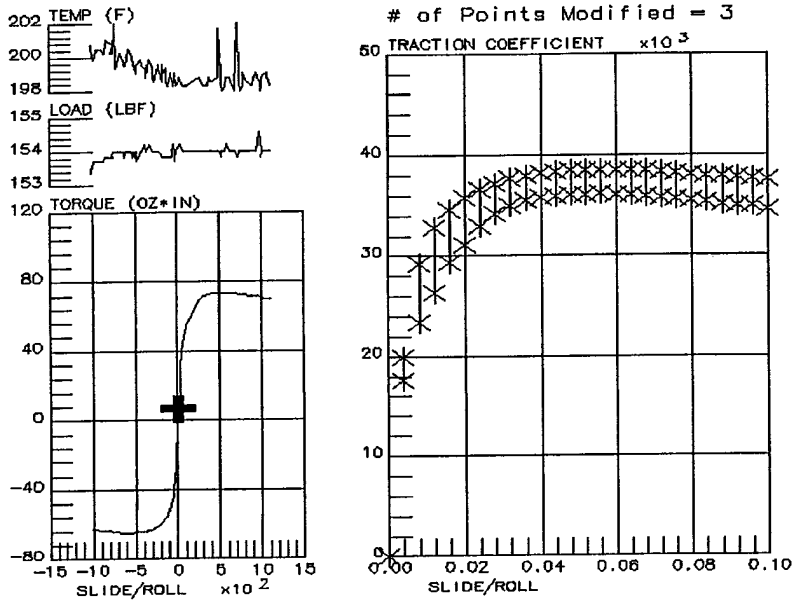


BO 81-288 ApiezonC+5%Bardhal(VacKote) #224
200F 65LBF 7639RPM 14 FILE: 81-288bo200

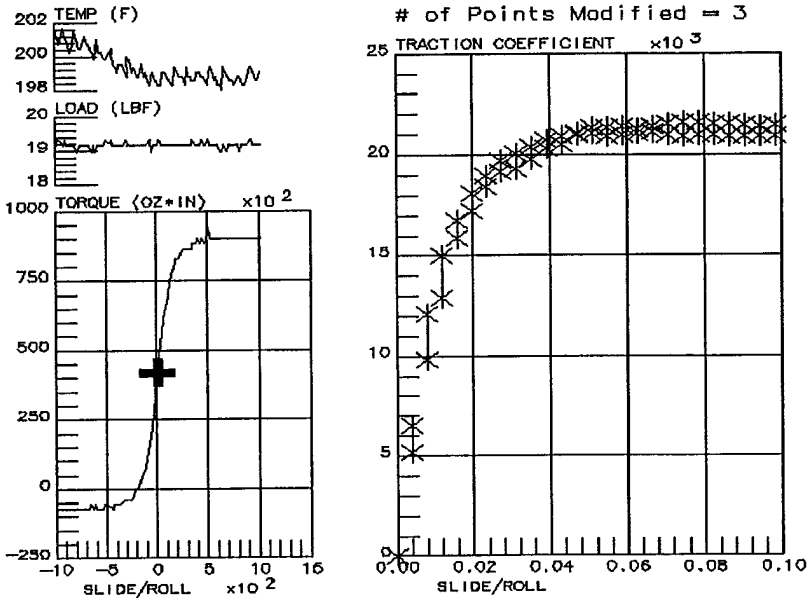




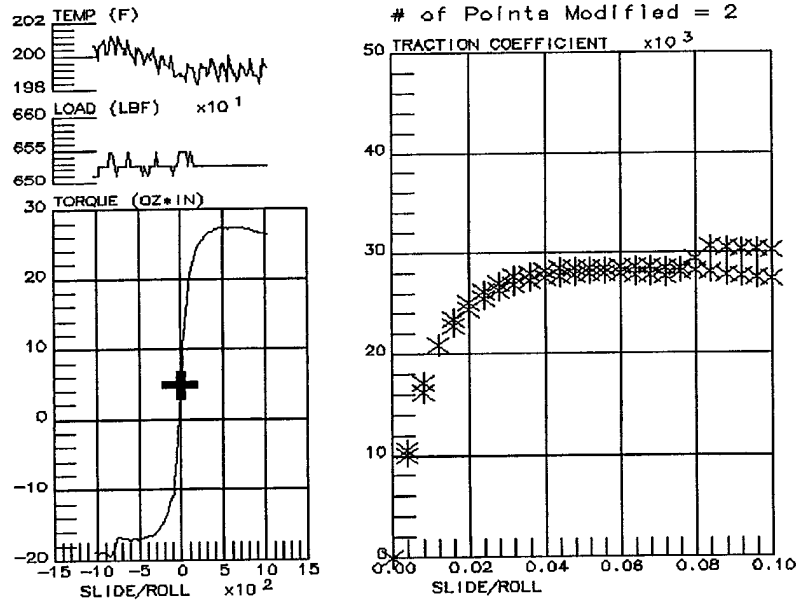
BO 81-288 ApiezonC+5%Bardhal(VacKote) #225
200F 154LBF 7639RPM 15 FILE: 81-288bo200



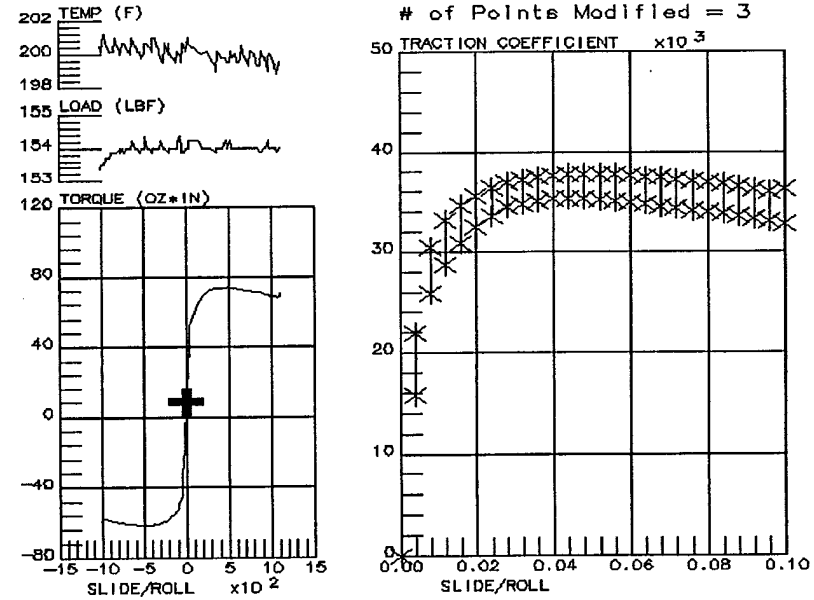
BO 81-288 ApiezonC+5%Bardhal(VacKote) #226
200F 19LBF 10186RPM 16 FILE: 81-288bo200



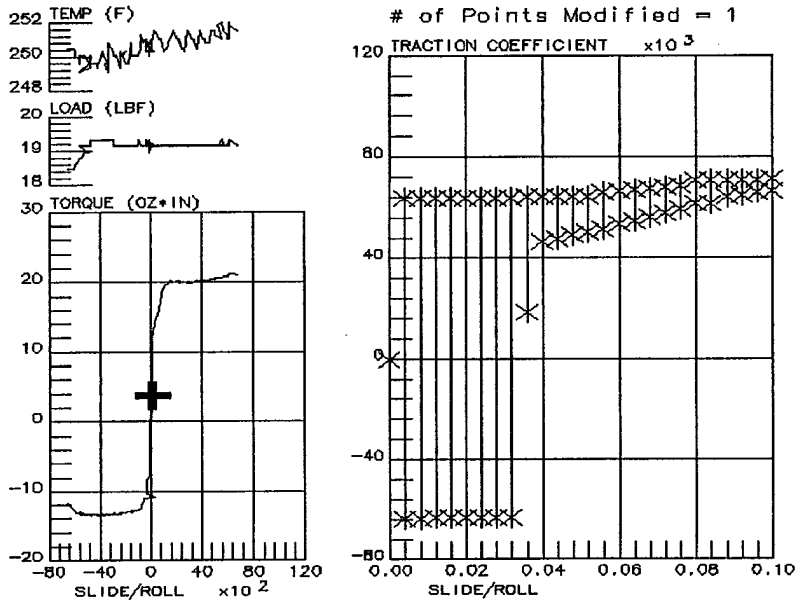
BO 81-288 ApiezonC+5%Bardhal(VacKote) #227
200F 65LBF 10186RPM 17 FILE: 81-288bo200



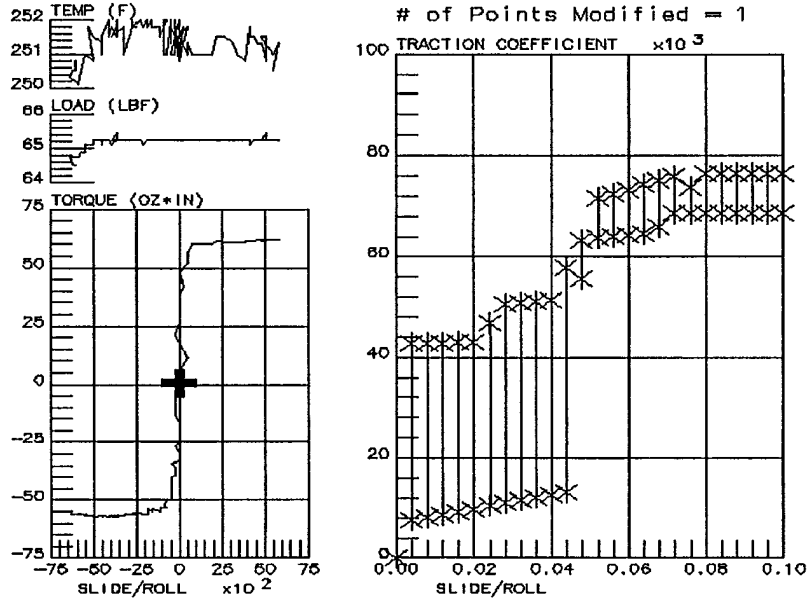
BO 81-288 ApiezonC+5%Bardhal(VacKote) #228
200F 154LBF 10186RPM 18 FILE: 81-288bo200



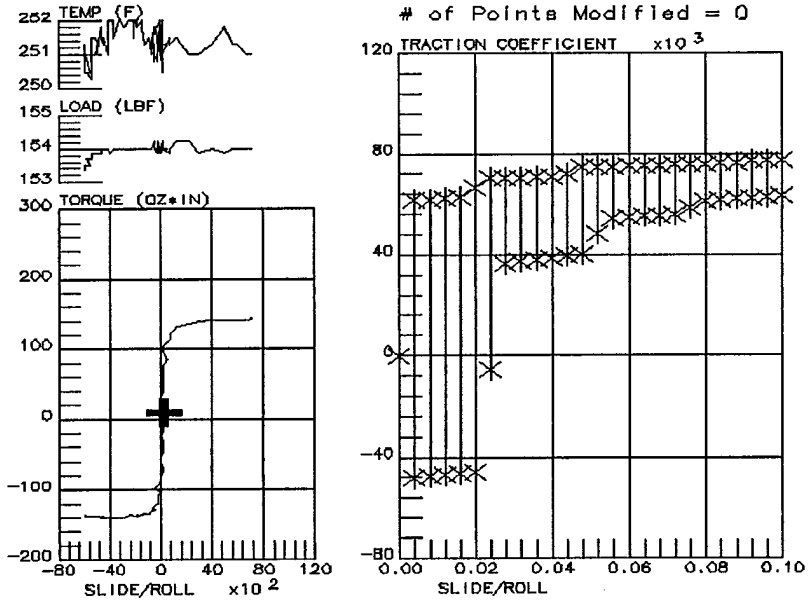
BO 81-288 ApiezonC+5%Bardhal(VacKote) #229
250F 19LBF 318RPM 1 FILE: 81-288bo250



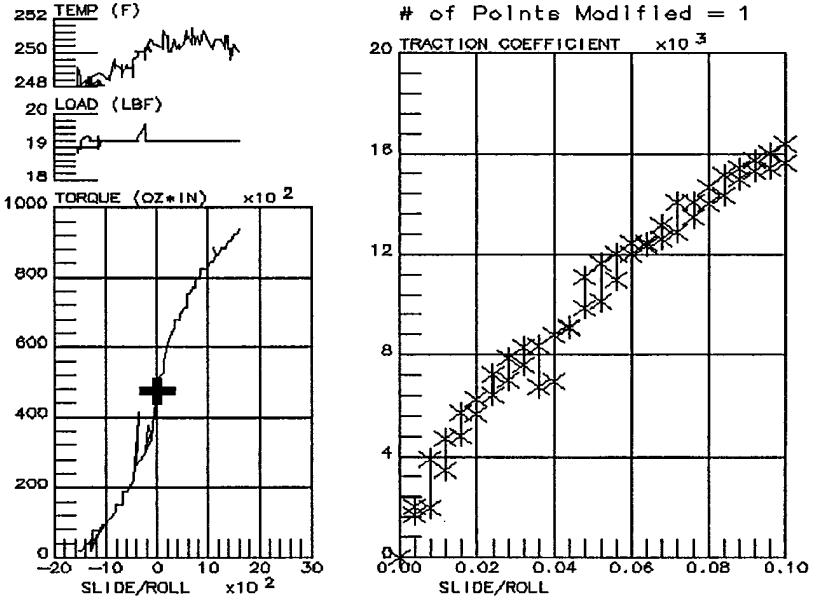
BO 81-288 ApiezonC+5%Bardhal(VacKote) #230
250F 65LBF 318RPM 2 FILE: 81-288bo250



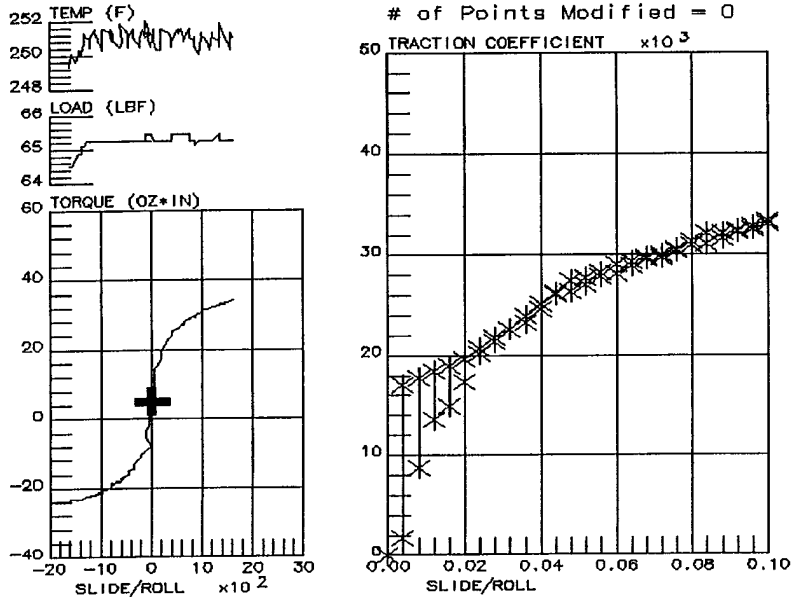
BO 81-288 ApiezonC+5%Bardhal(VacKote) #231
250F 154LBF 318RPM 3 FILE: 81-288bo250



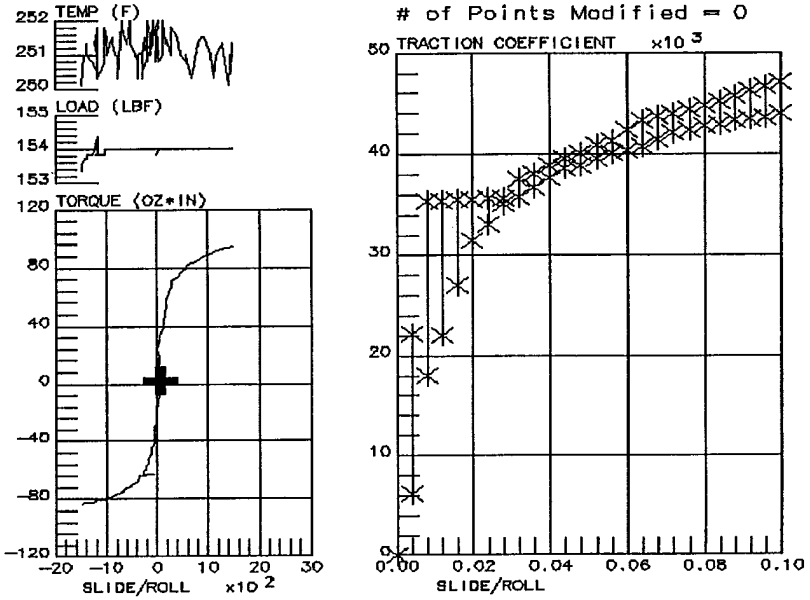
BO 81-288 ApiezonC+5%Bardhal(VacKote) #232
250F 19LBF 1273RPM 4 FILE: 81-288bo250



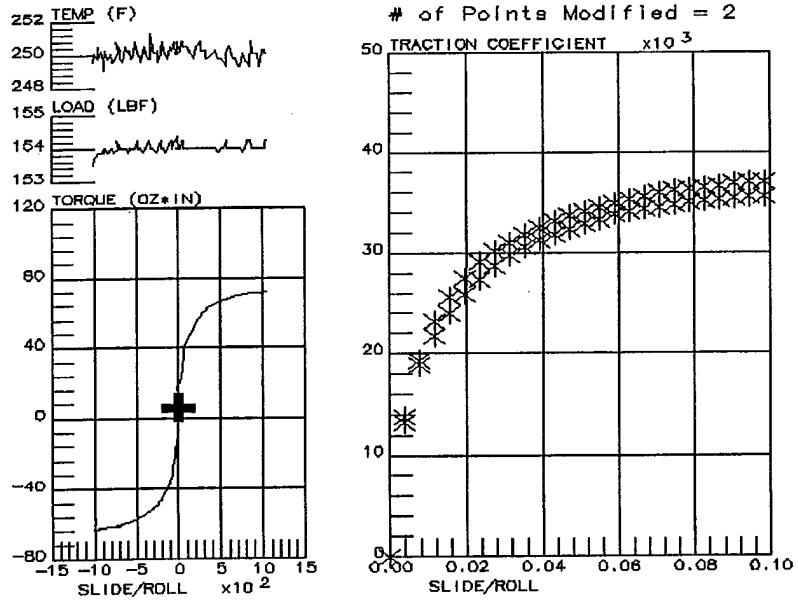
BO 81-288 ApiezonC+5%Bardhal(VacKote) #233
250F 85LBF 1273RPM 5 FILE: 81-288bo250



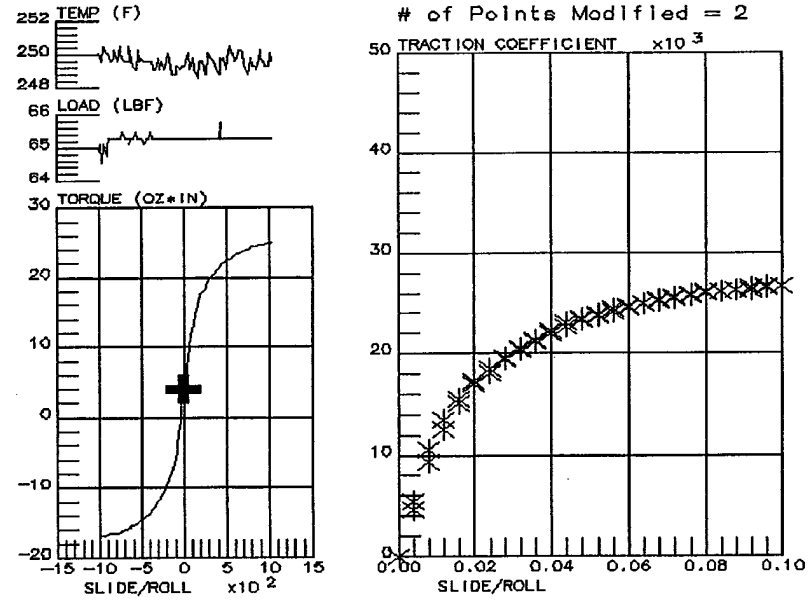
BO 81-288 ApiezonC+5%Bardhal(VacKote) #234
250F 154LBF 1273RPM 6 FILE: 81-288bo250



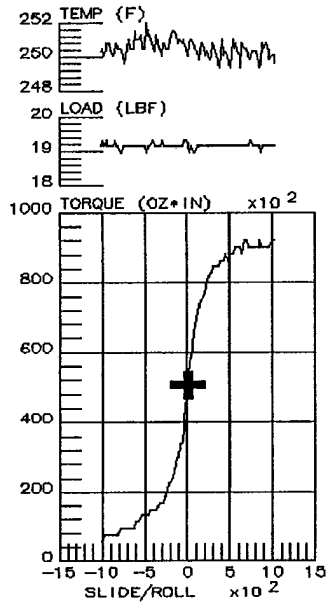
BO 81-288 ApiezonC+5%Bardhal(VacKote) #235
250F 154LBF 5093RPM 12 FILE: 81-288bo250

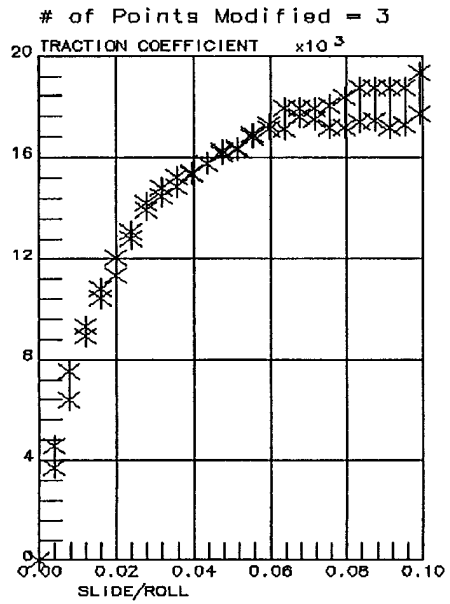


BO 81-288 ApiezonC+5%Bardhal(VacKote) #236
250F 85LBF 7639RPM 14 FILE: 81-288bo250

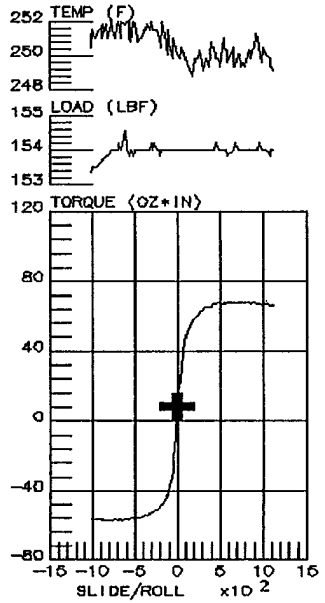


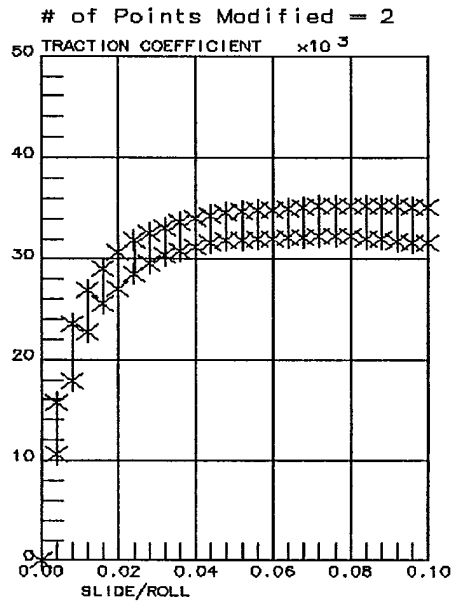
BO 81-288 ApiezonC+5%Bardhal(VacKote) #237
250F 19LBF 10186RPM 16 FILE: 81-288bo250



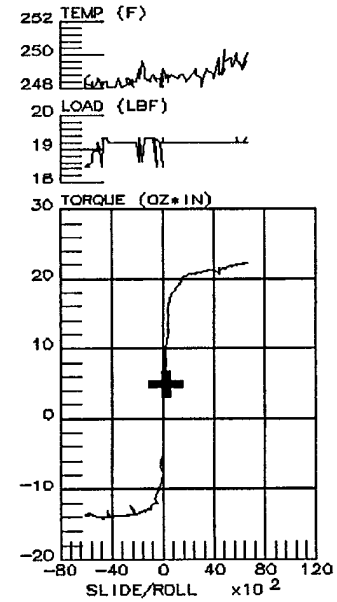


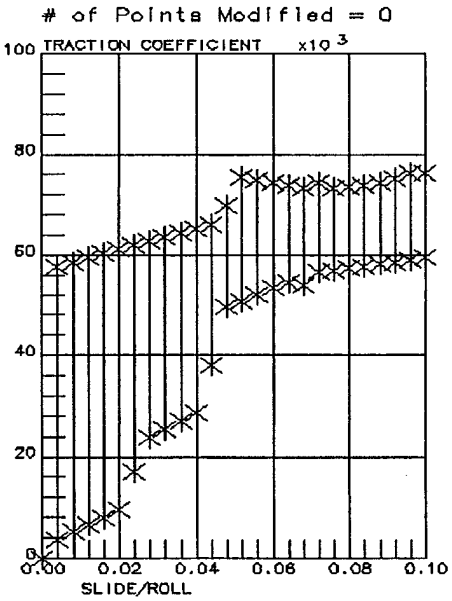
BO 81-288 ApiezonC+5%Bardhal(VacKote) #238
250F 154LBF 10186RPM 18 FILE: 81-288bo250



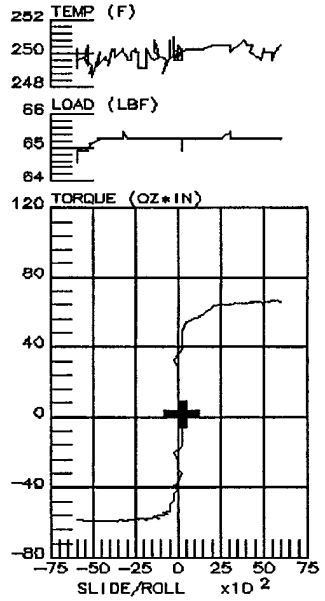


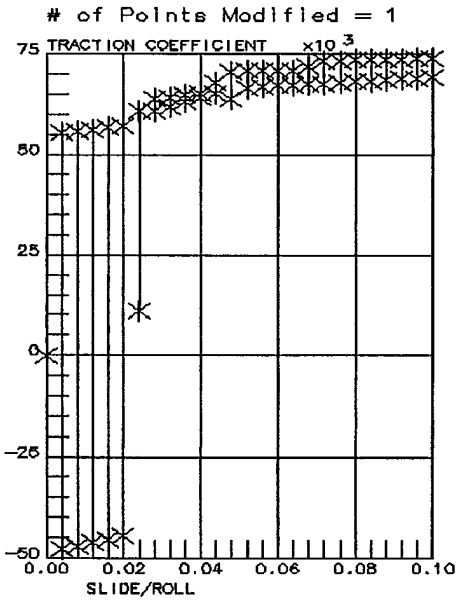
BO 81-288 ApiezonC+5%Bardhal(VacKote) #239
250F 19LBF 318RPM 1 FILE: 81-288bo250



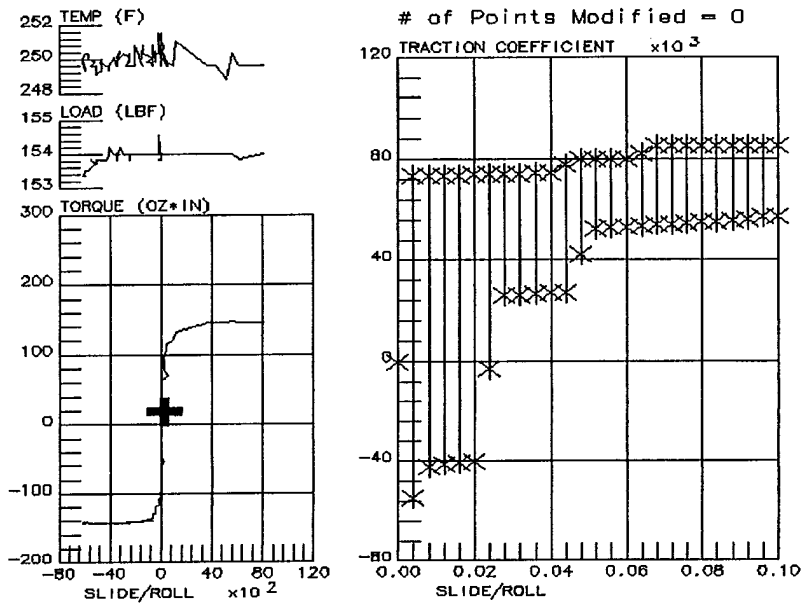


BO 81-288 ApiezonC+5%Bardhal(VacKote) #240
250F 65LBF 318RPM 2 FILE: 81-288bo250

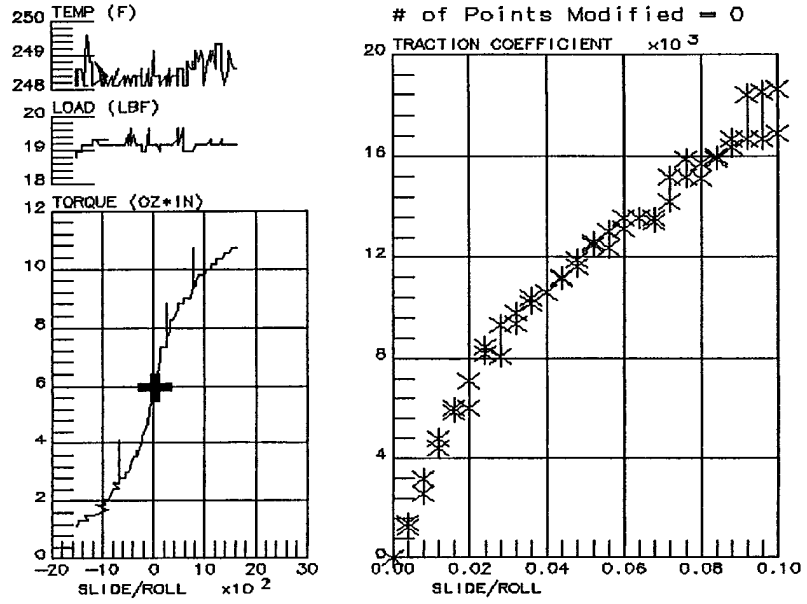




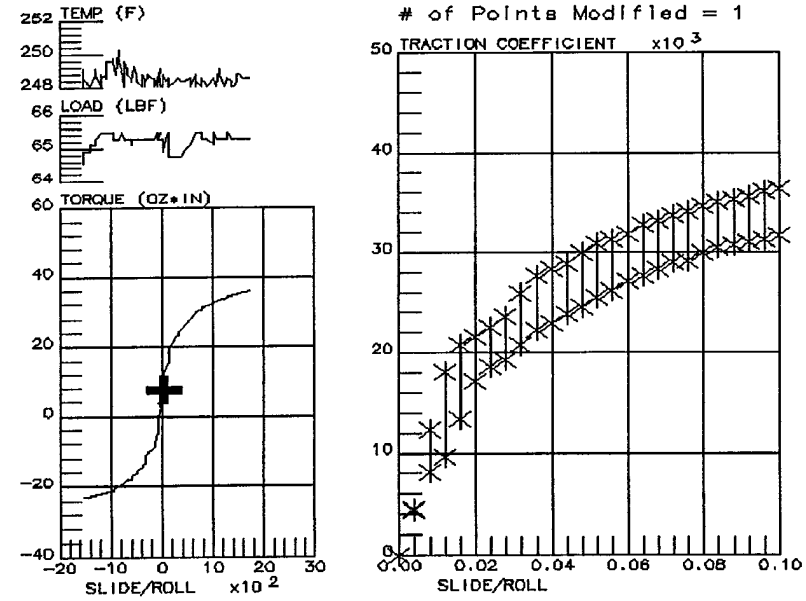
BO 81-288 ApiezonC+5%Bardhal(VacKote) #241
250F 154LBF 318RPM 3 FILE: 81-288bo250



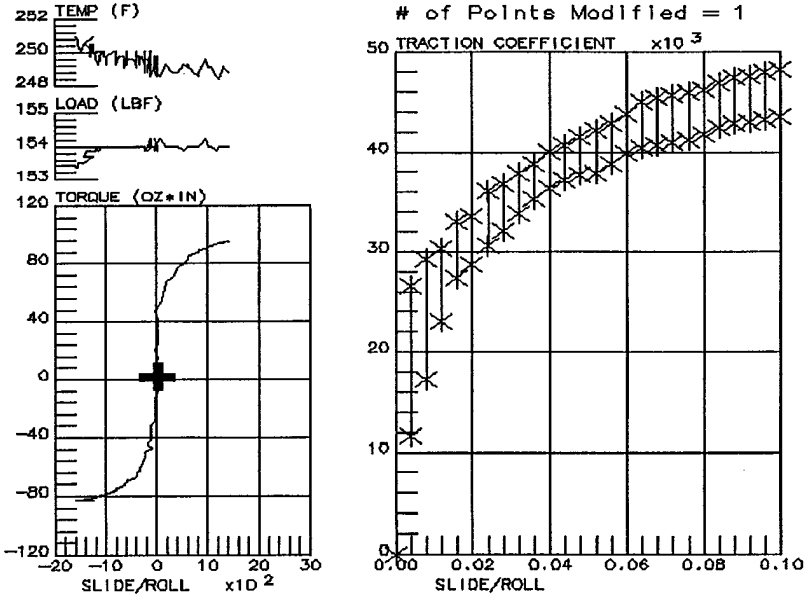
BO 81-288 ApiezonC+5%Bardhal(VacKote) #242
250F 19LBF 1273RPM 4 FILE: 81-288bo250



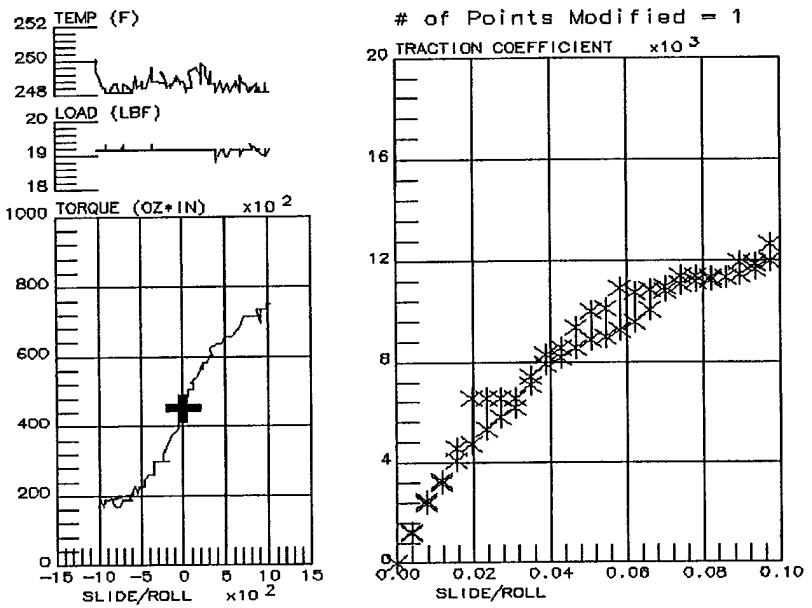
BO 81-288 ApiezonC+5%Bardhal(VacKote) #243
250F 65LBF 1273RPM 5 FILE: 81-288bo250



BO 81-288 ApiezonC+5%Bardhal(VacKote) #244
250F 154LBF 1273RPM 6 FILE: 81-288bo250



BO 81-288 ApiezonC+5%Bardhal(VacKote) #245
250F 19LBF 2546RPM 7 FILE: 81-288bo250



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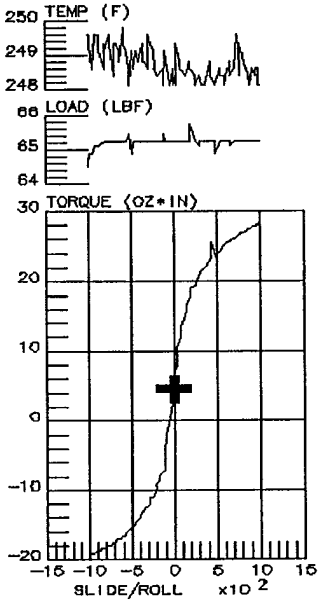
BO 81-288 ApiezonC+5%Bardhal(VacKote) #246
250F 65LBF 2546RPM 8 FILE: 81-288bo250



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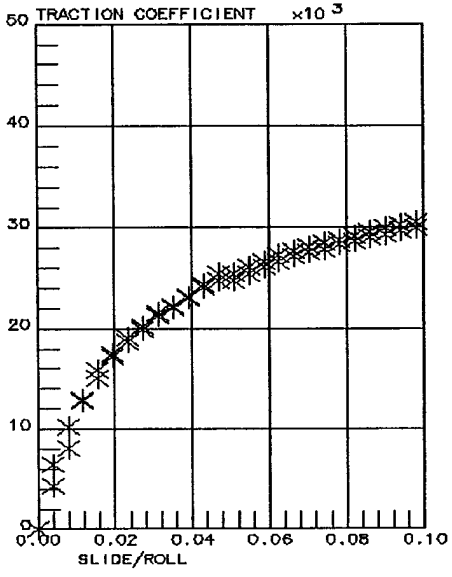
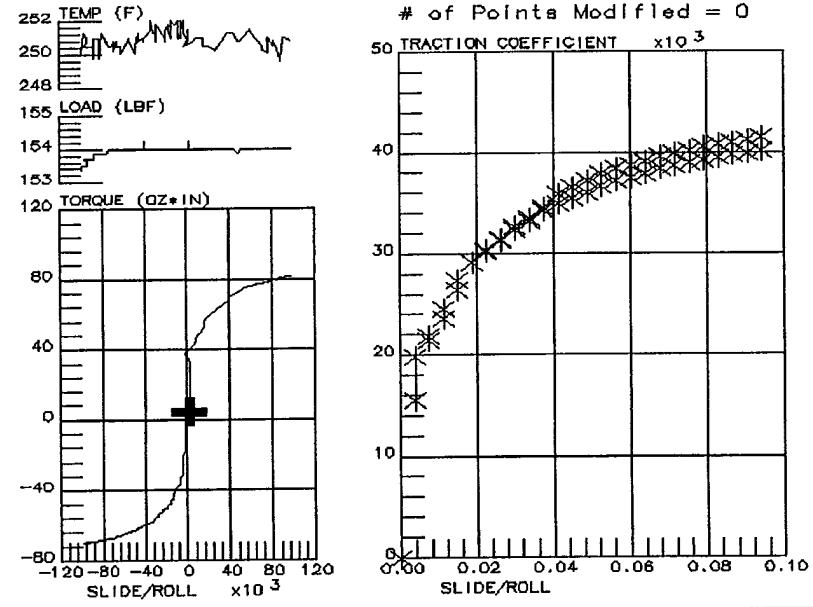
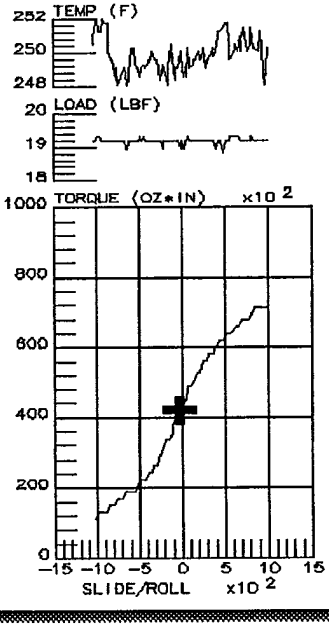


BO 81-288 ApiezonC+5%Bardhal(VacKote) #247
250F 154LBF 2546RPM 9 FILE: 81-288bo250



# of Points Modified = 0

BO 81-288 ApiezonC+5%Bardhal(VacKote) #248
250F 19LBF 5093RPM 10 FILE: 81-288bo250



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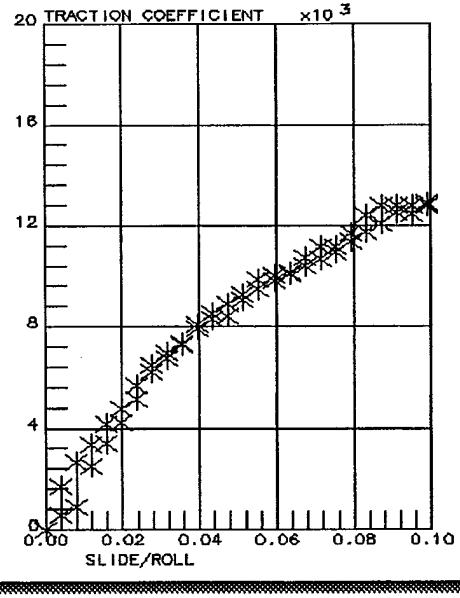
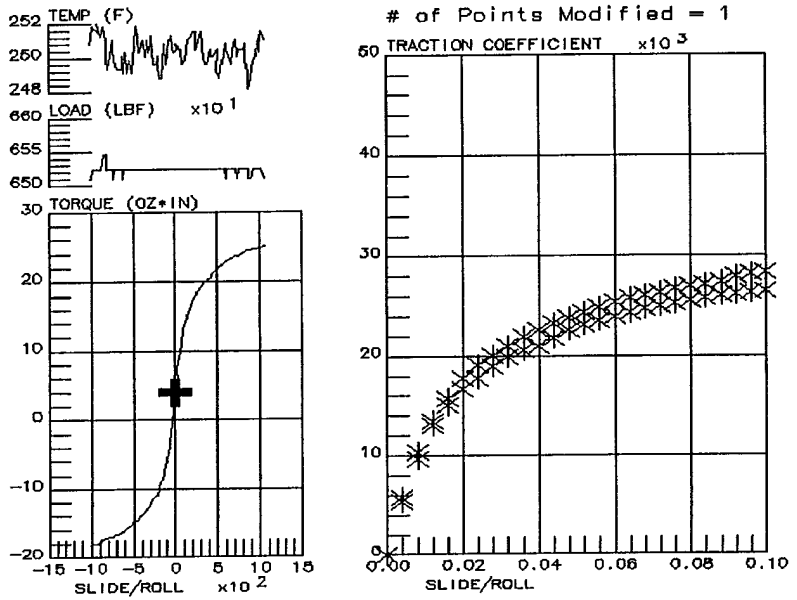
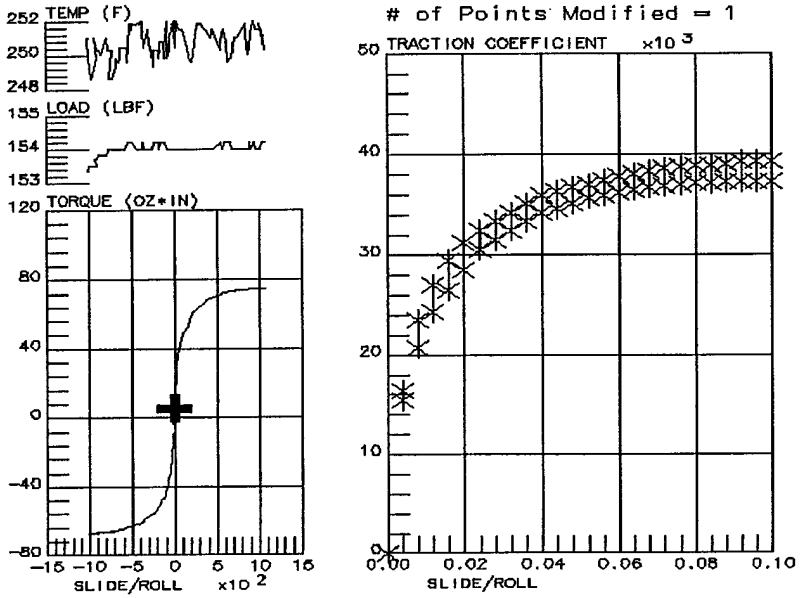


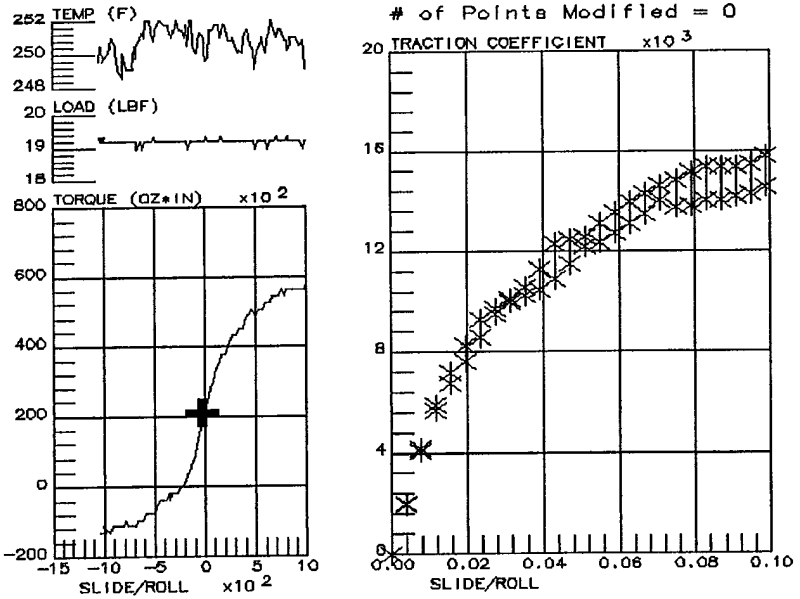
BO 81-288 ApiezonC+5%Bardhal(VacKote) #249
250F 65LBF 5093RPM 11 FILE: 81-288bo250



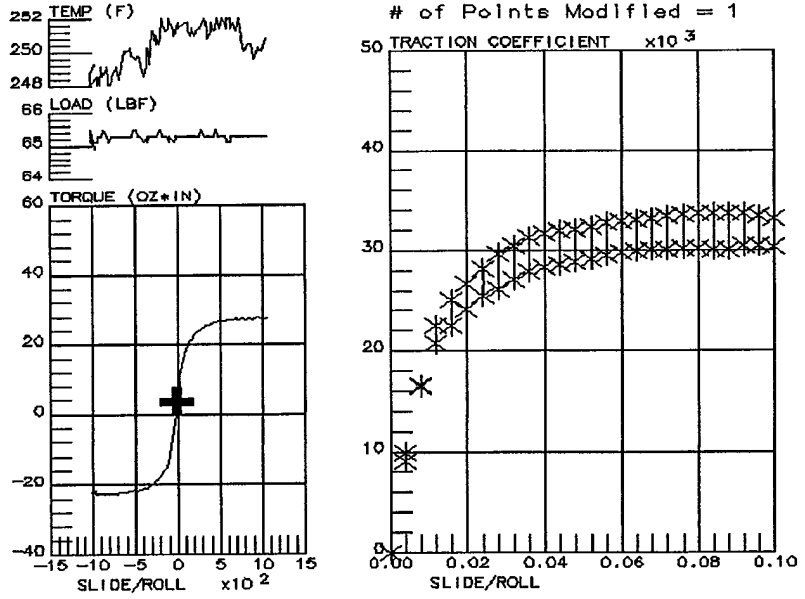
BO 81-288 ApiezonC+5%Bardhal(VacKote) #250
250F 154LBF 5093RPM 12 FILE: 81-288bo250



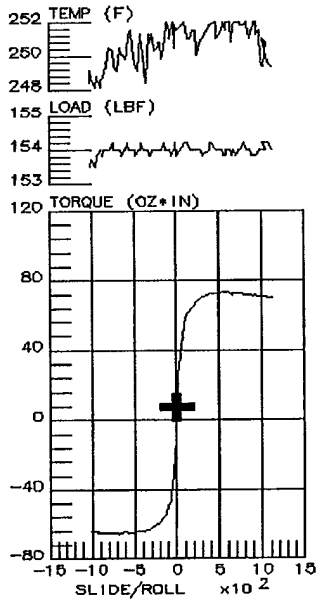
BO 81-288 ApiezonC+5%Bardhal(VacKote) #251
250F 19LBF 7639RPM 13 FILE: 81-288bo250

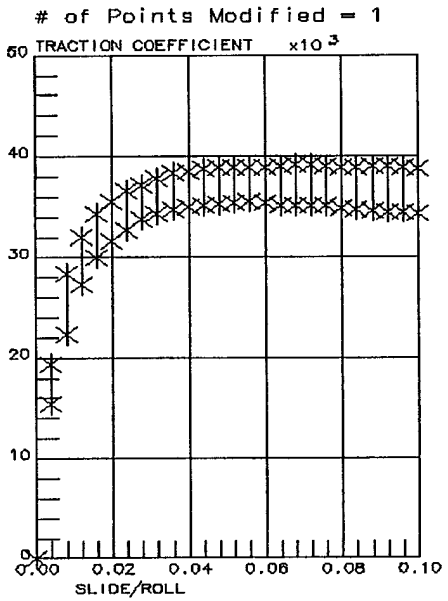


BO 81-288 ApiezonC+5%Bardhal(VacKote) #252
250F 65LBF 7639RPM 14 FILE: 81-288bo250

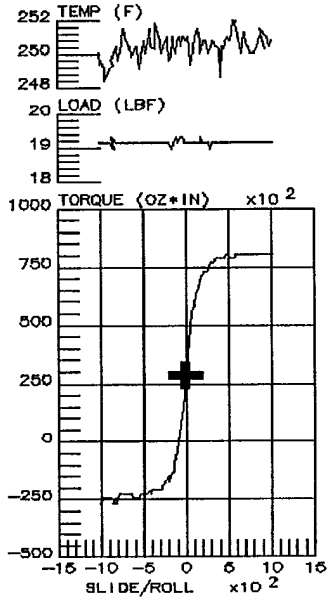


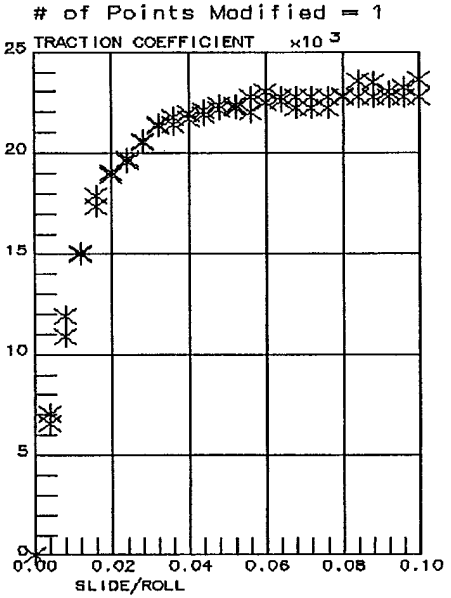
BO 81-288 ApiezonC+5%Bardhal(VacKote) #253
250F 154LBF 7639RPM 15 FILE: 81-288bo250



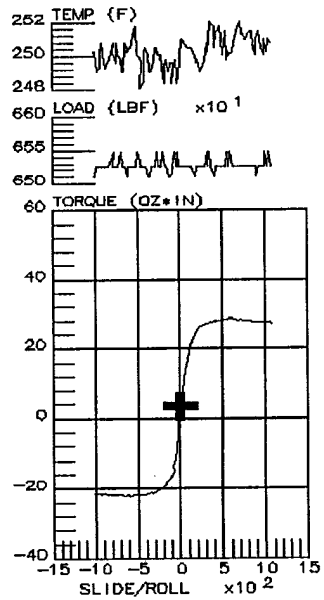


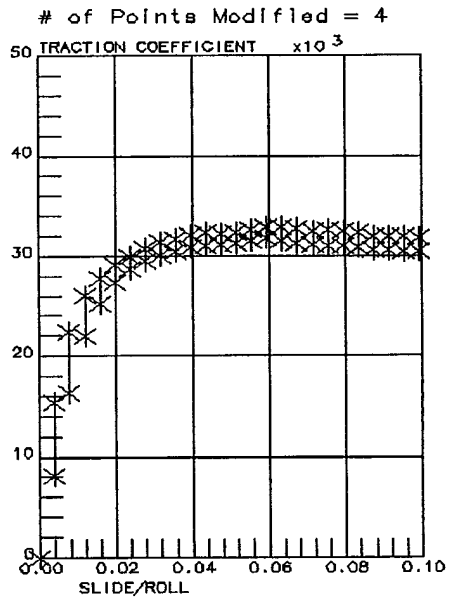
BO 81-288 ApiezonC+5%Bardhal(VacKote) #254
250F 19LBF 10186RPM 16 FILE: 81-288bo250



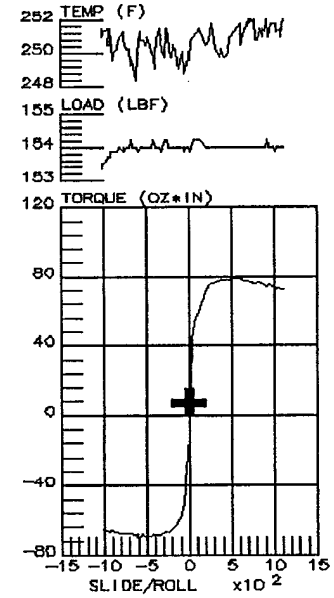


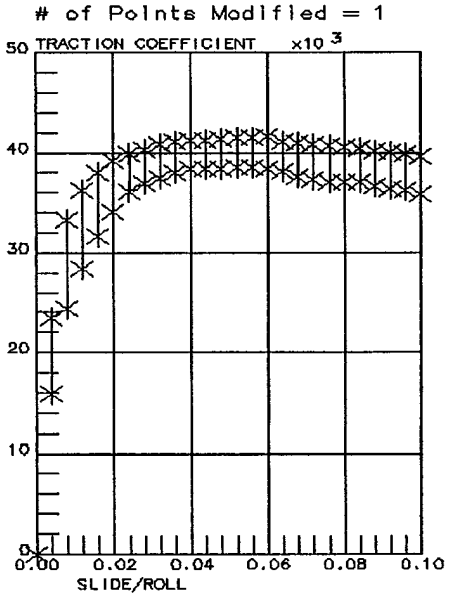
BO 81-288 ApiezonC+5%Bardhal(VacKote) #255
250F 65LBF 10186RPM 17 FILE: 81-288bo250



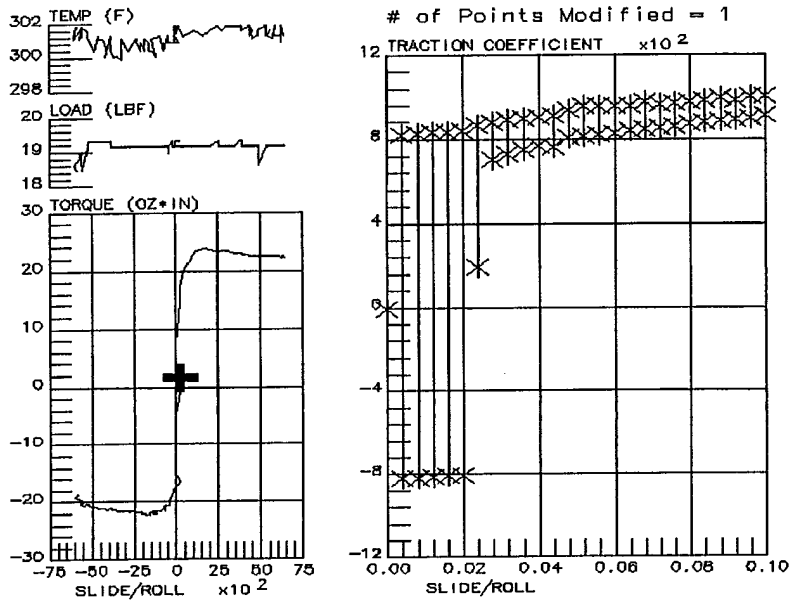


BO 81-288 ApiezonC+5%Bardhal(VacKote) #256
250F 154LBF 10186RPM 18 FILE: 81-288bo250

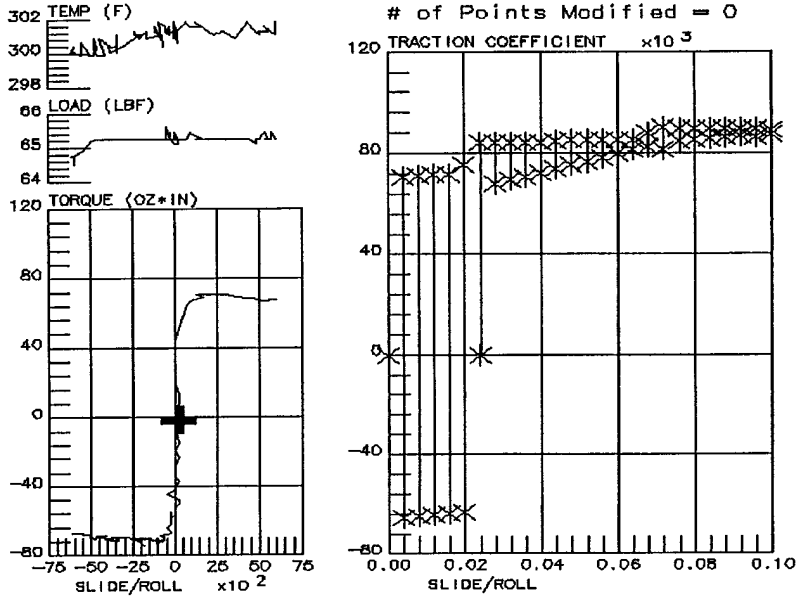




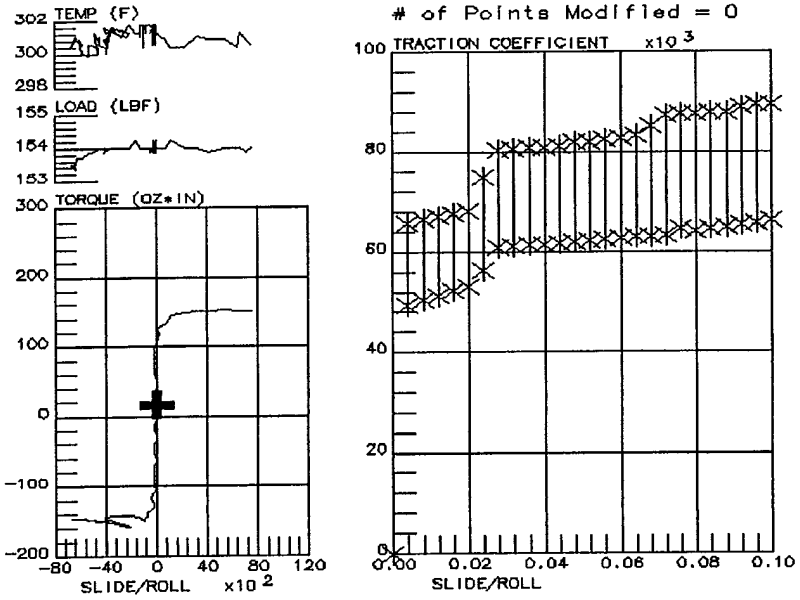
BO 81-288 ApiezonC+5%Bardhal(VacKote) #257
300F 19LBF 318RPM 1 FILE: 81-288bo300



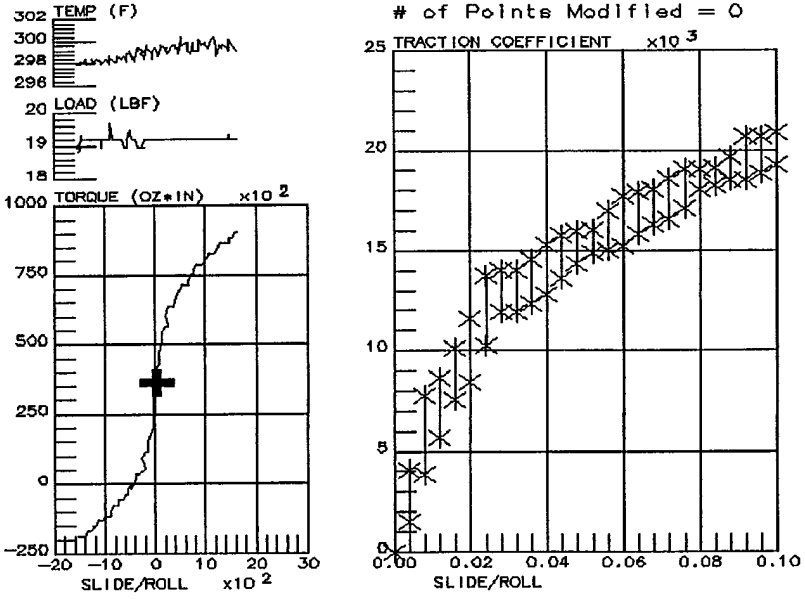
BO 81-288 ApiezonC+5%Bardhal(VacKote) #258
300F 65LBF 318RPM 2 FILE: 81-288bo300



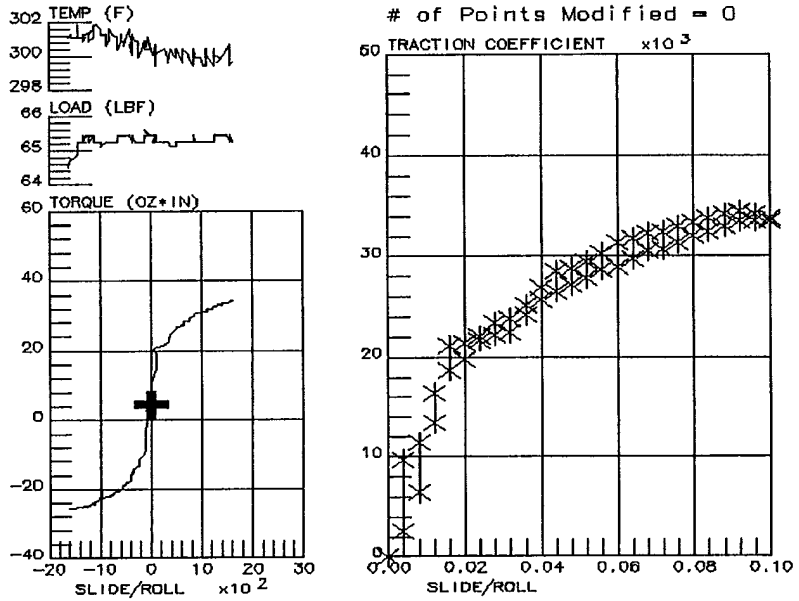
BO 81-288 ApiezonC+5%Bardhal(VacKote) #259
300F 154LBF 318RPM 3 FILE: 81-288bo300



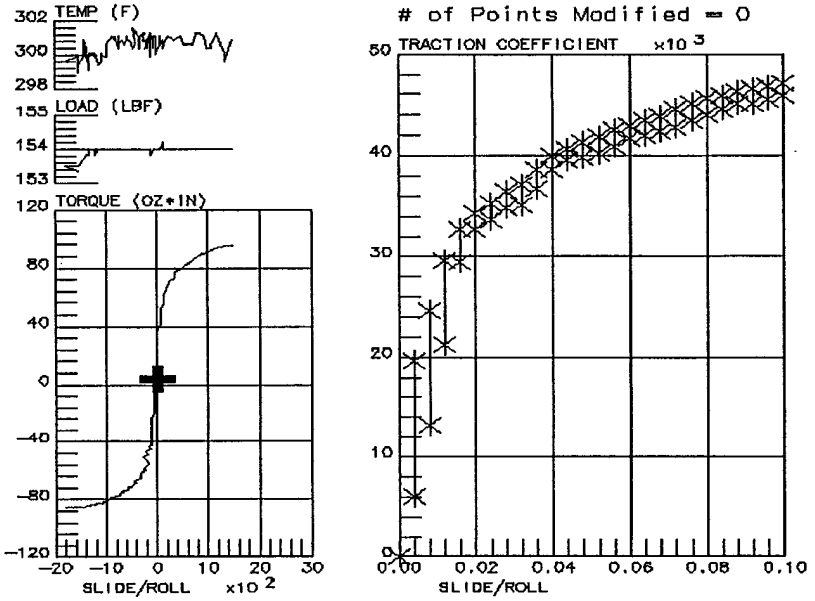
BO 81-288 ApiezonC+5%Bardhal(VacKote) #260
300F 19LBF 1273RPM 4 FILE: 81-288bo300



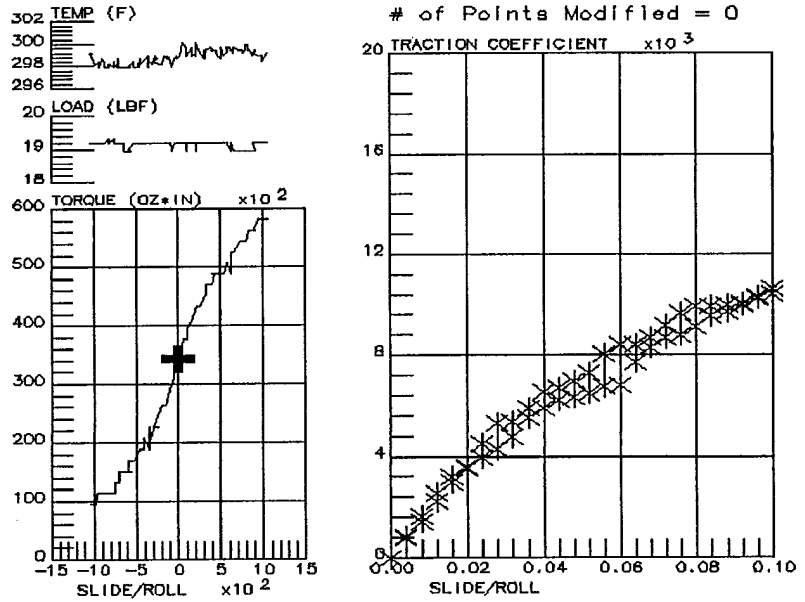
BO 81-288 ApiezonC+5%Bardhal(VacKote) #261
300F 65LBF 1273RPM 5 FILE: 81-288bo300



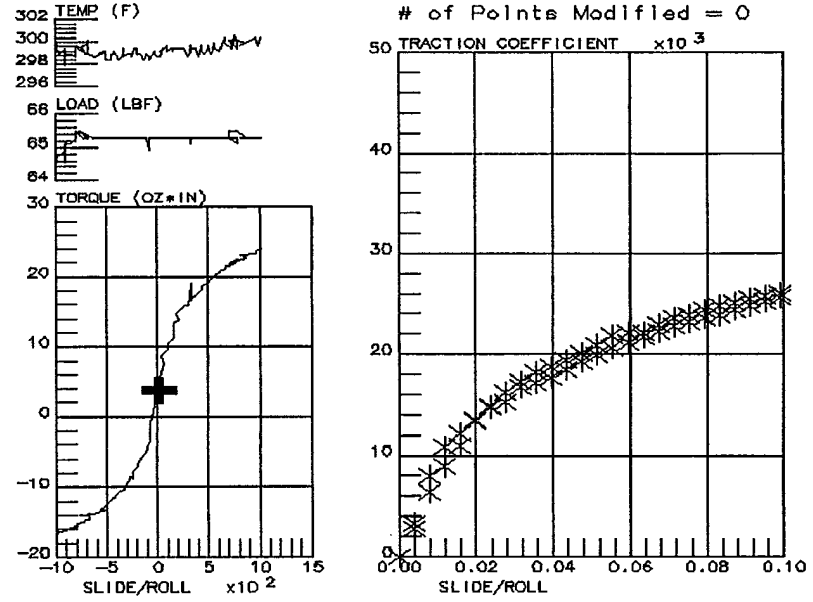
BO 81-288 ApiezonC+5%Bardhal(VacKote) #262
300F 154LBF 1273RPM 6 FILE: 81-288bo300



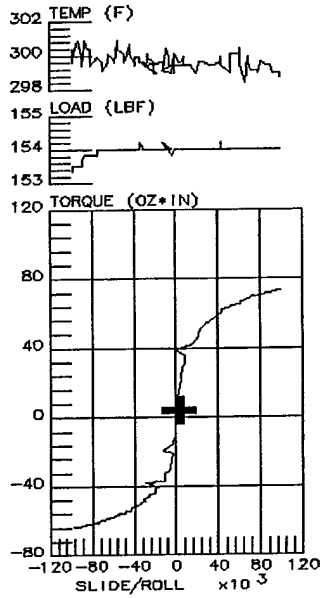
BO 81-288 ApiezonC+5%Bardhal(VacKote) #263
300F 19LBF 2546RPM 7 FILE: 81-288bo300



BO 81-288 ApiezonC+5%Bardhal(VacKote) #264
300F 65LBF 2546RPM 8 FILE: 81-288bo300



BO 81-288 ApiezonC+5%Bardhal(VacKote) #265
300F 154LBF 2546RPM 9 FILE: 81-288bo300



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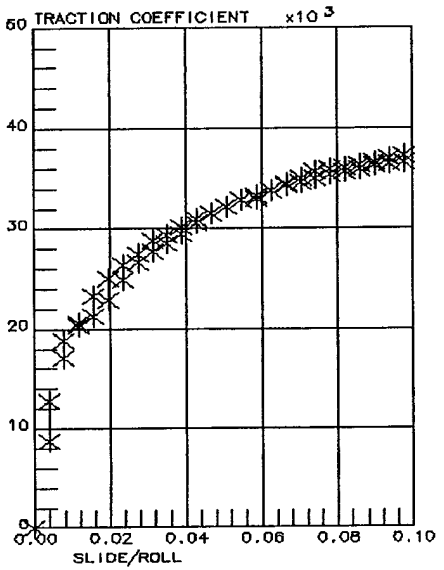
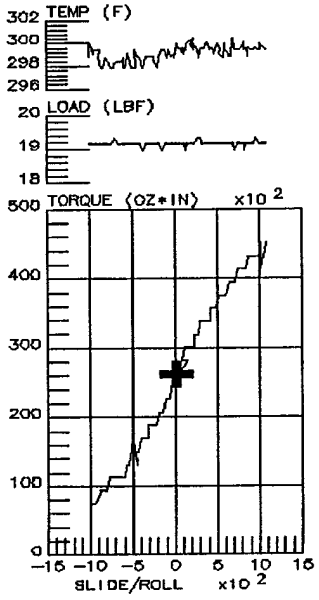


BO 81-288 ApiezonC+5%Bardhal(VacKote) #266
300F 19LBF 5093RPM 10 FILE: 81-288bo300



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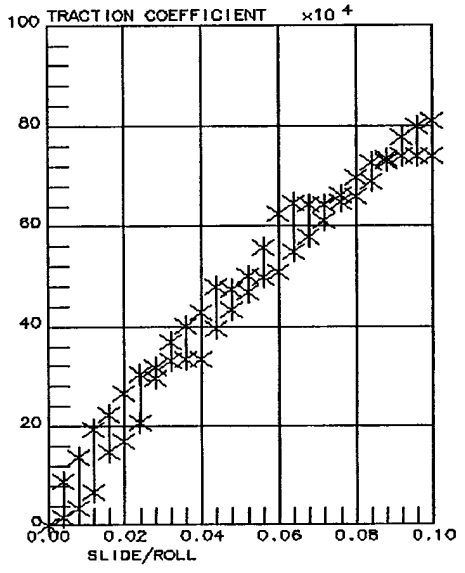
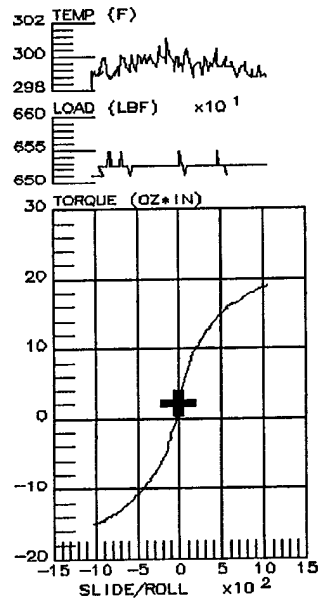


BO 81-288 ApiezonC+5%Bardhal(VacKote) #267
300F 65LBF 5093RPM 11 FILE: 81-288bo300



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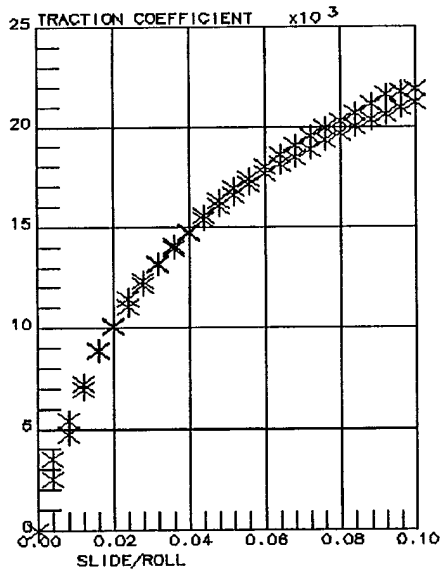
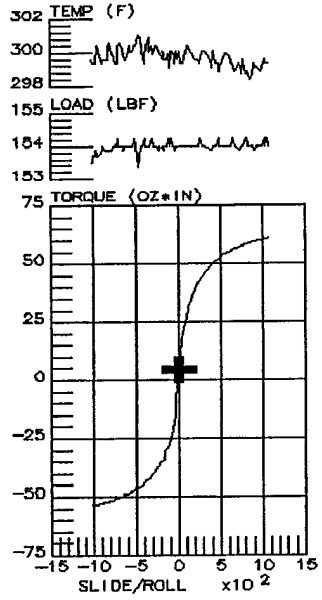


BO 81-288 ApiezonC+5%Bardhal(VacKote) #268
300F 154LBF 5093RPM 12 FILE: 81-288bo300



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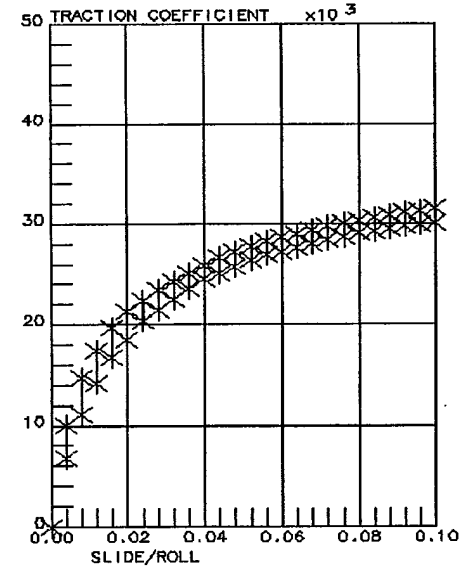
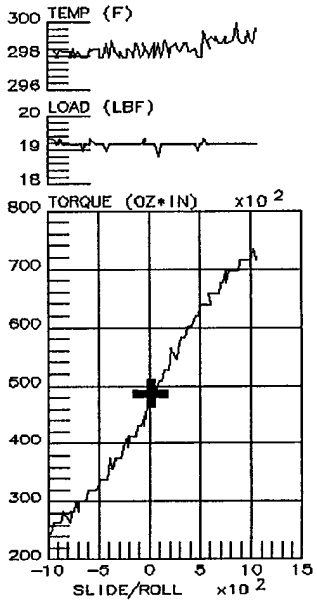
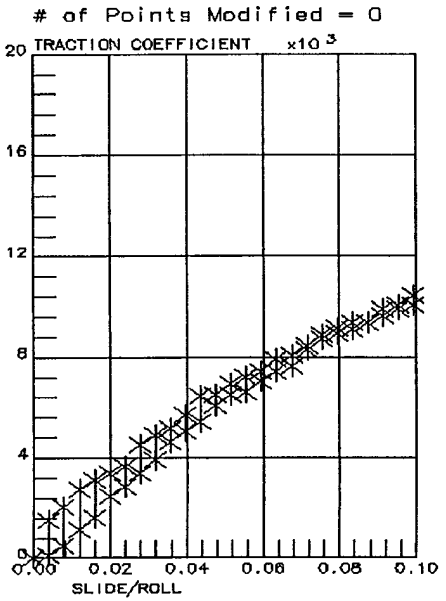
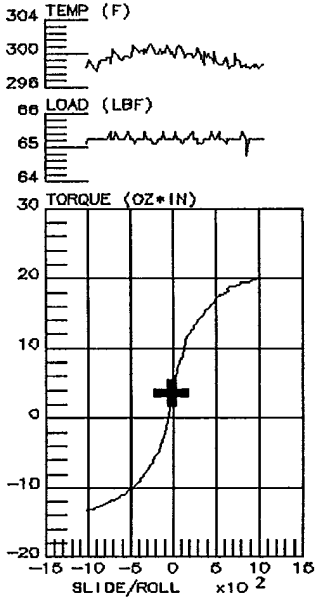


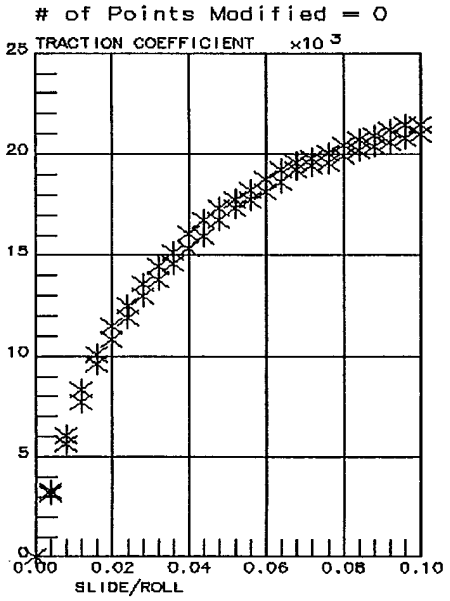
BO 81-288 ApiezonC+5%Bardhal(VacKote) #269
300F 19LBF 7639RPM 13 FILE: 81-288bo300



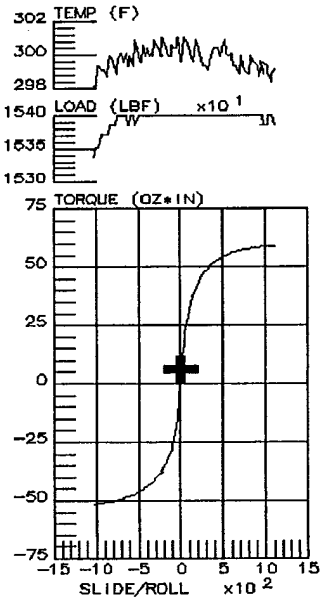


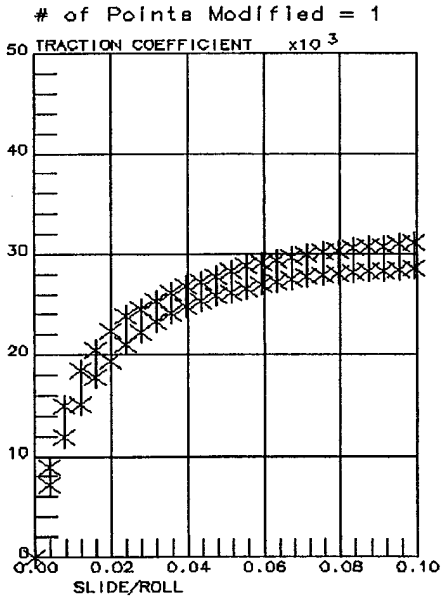
BO 81-288 ApiezonC+5%Bardhal(VacKote) #270
300F 65LBF 7639RPM 14 FILE: 81-288bo300



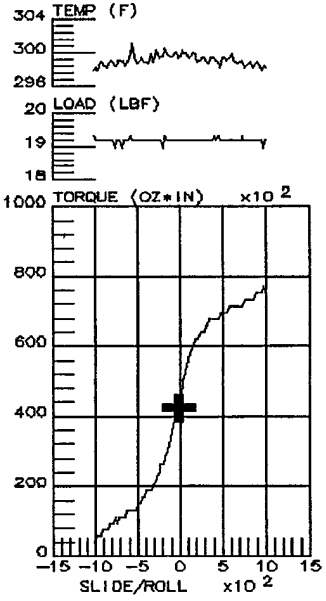


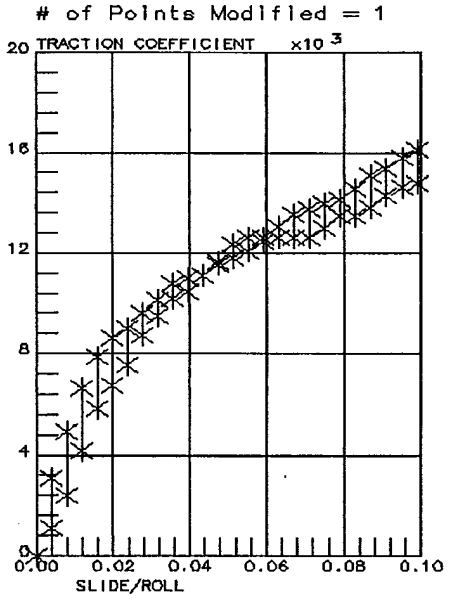
BO 81-288 ApiezonC+5%Bardhal(VacKote) #271
300F 154LBF 7639RPM 15 FILE: 81-288bo300



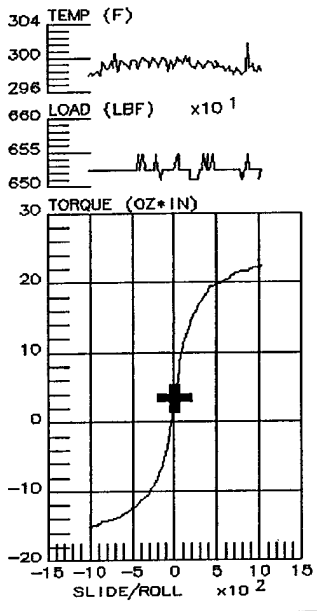


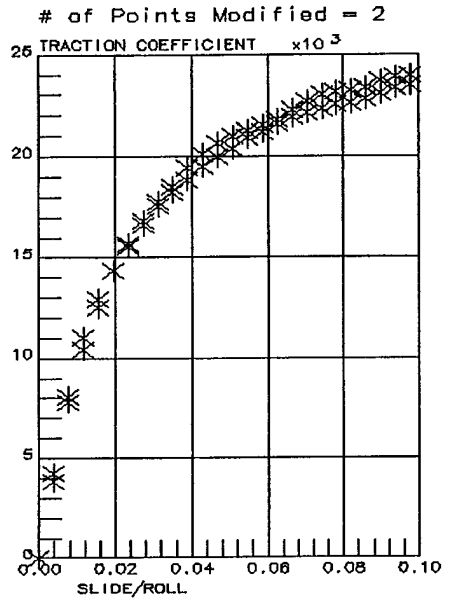
BO 81-288 ApiezonC+5%Bardhal(VacKote) #272
300F 19LBF 10186RPM 16 FILE: 81-288bo300



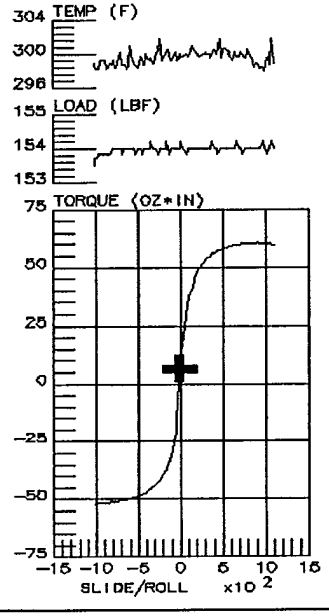


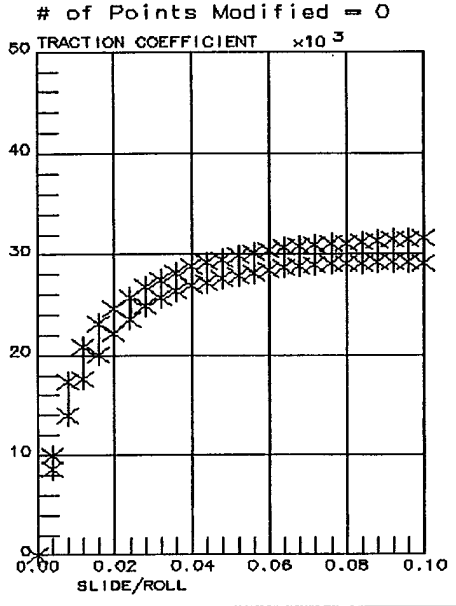
BO 81-288 ApiezonC+5%Bardhal(VacKote) #273
300F 65LBF 10186RPM 17 FILE: 81-288bo300





BO 81-288 ApiezonC+5%Bardhal(VacKote) #274
300F 154LBF 10186RPM 18 FILE: 81-288bo300

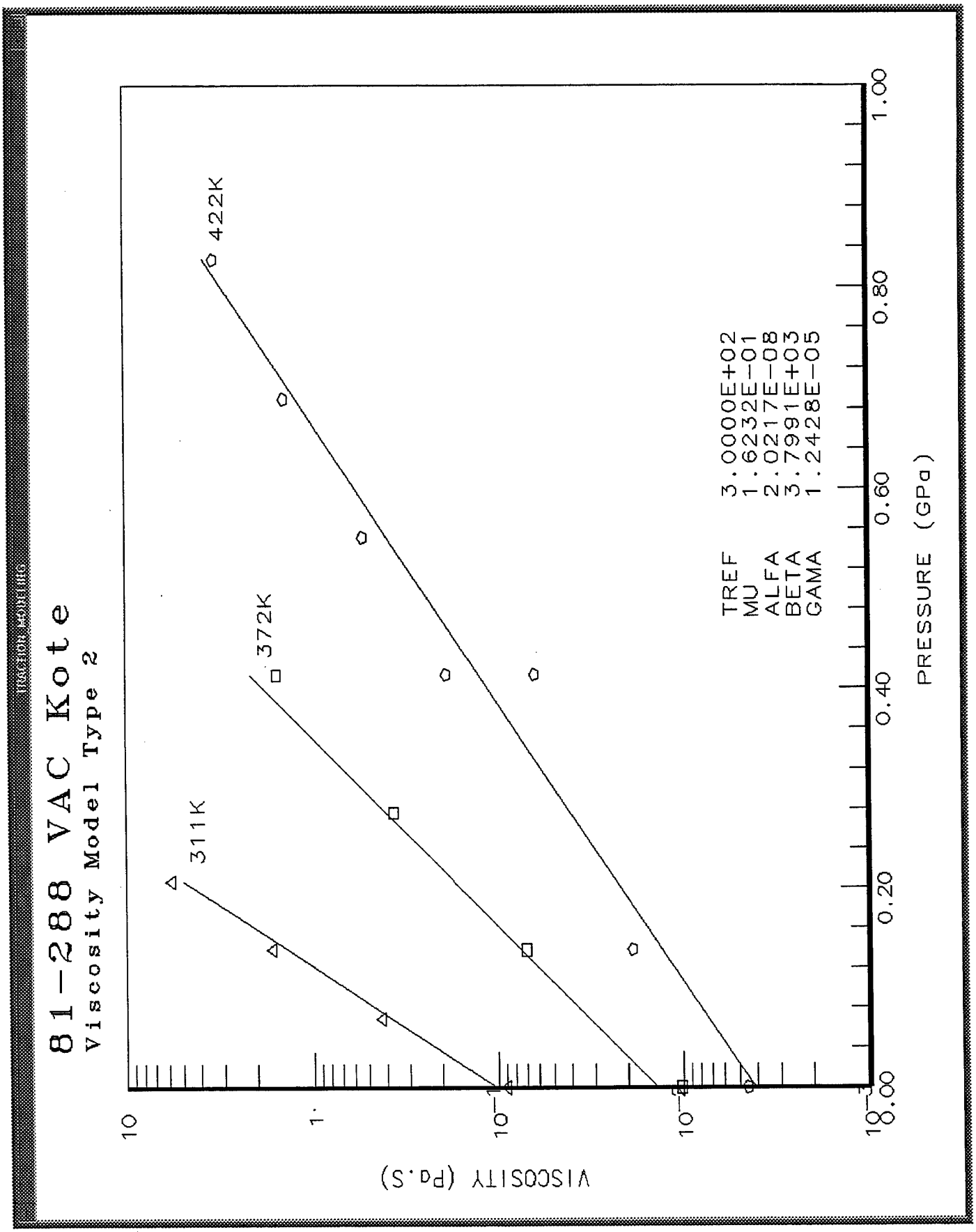




Lubricant name = BO 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1

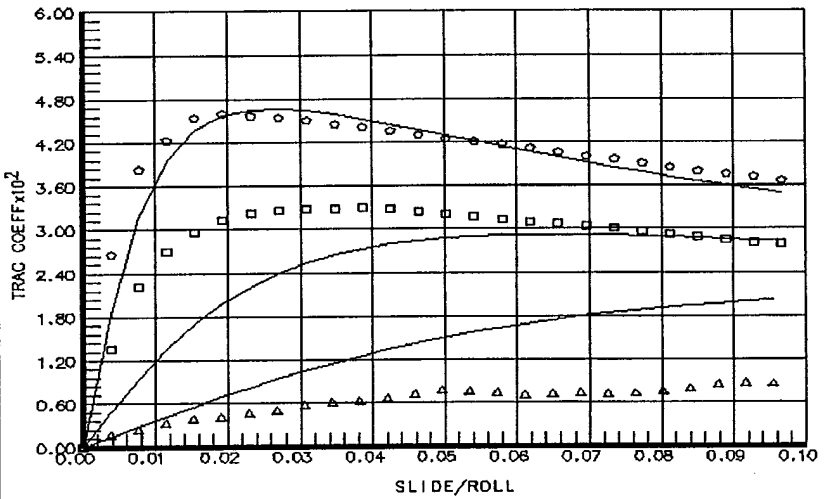
Dataset Name	Inlet Temp (K)	Roll Velocity (M/S)	XMU* (Pa.S)	ALFA* (1/Pa)	BETA* (1/K)
bo1.dat	3.0000E+02	5.0790E+00	4.1257E+00	6.0000E-09	8.9632E-02
bo2.dat	3.0000E+02	1.0160E+01	1.6956E+00	6.0000E-09	4.3121E-02
bo3.dat	3.0000E+02	1.5239E+01	1.4524E+00	6.0000E-09	3.4818E-02
bo4.dat	3.0000E+02	2.0320E+01	1.7824E+00	6.0000E-09	3.8083E-02
bo5.dat	3.1111E+02	5.0790E+00	3.3478E+00	6.0000E-09	1.1317E-01
bo6.dat	3.1111E+02	1.0160E+01	2.0868E+00	6.0000E-09	5.1280E-02
bo7.dat	3.1111E+02	1.5239E+01	1.7896E+00	6.0000E-09	4.7212E-02
bo8.dat	3.1111E+02	2.0320E+01	1.3464E+00	6.0000E-09	3.6815E-02
bo9.dat	3.3889E+02	5.0790E+00	1.3261E+00	6.0000E-09	1.6552E-01
bo10.dat	3.3889E+02	1.0160E+01	8.7282E-01	6.0000E-09	6.7358E-02
bo11.dat	3.3889E+02	1.5239E+01	7.4268E-01	6.0000E-09	4.9028E-02
bo12.dat	3.3889E+02	2.0320E+01	8.2648E-01	6.0000E-09	4.3151E-02
bo13.dat	3.6667E+02	5.0790E+00	5.0837E-01	6.0000E-09	2.5989E-01
bo14.dat	3.6667E+02	1.0160E+01	3.6428E-01	6.0000E-09	9.8547E-02
bo15.dat	3.6667E+02	1.5239E+01	3.7224E-01	6.0000E-09	6.8380E-02
bo16.dat	3.6667E+02	2.0320E+01	4.5221E-01	6.0000E-09	6.1175E-02
bo17.dat	3.9444E+02	5.0790E+00	2.0582E-01	6.0000E-09	3.1561E-01
bo18.dat	3.9444E+02	1.0160E+01	1.8062E-01	6.0000E-09	1.5342E-01
bo19.dat	3.9444E+02	1.5239E+01	1.8979E-01	6.0000E-09	8.7490E-02
bo20.dat	3.9444E+02	2.0320E+01	3.4516E-01	6.0000E-09	9.4670E-02
bo21.dat	4.2222E+02	5.0790E+00	8.9828E-02	6.0000E-09	4.9566E-01
bo22.dat	4.2222E+02	1.0160E+01	6.3344E-02	6.0000E-09	1.9749E-01
bo23.dat	4.2222E+02	1.5239E+01	6.5332E-02	6.0000E-09	1.2363E-01
bo24.dat	4.2222E+02	2.0320E+01	8.9956E-02	6.0000E-09	1.0216E-01


81-288 VAC Kote
Viscosity Model Type 2
VISCOSITY (Pa.S)
PRESSURE (GPa)
311K
372K
422K
TREF 3.0000E+02
MU 1.6232E-01
ALFA 2.0217E-08
BETA 3.7991E+03
GAMA 1.2428E-05
10
1.
10⁻¹
10⁻²
10⁻³
0.00
0.20
0.40
0.60
0.80
1.00

BQ 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1 bq1.dat

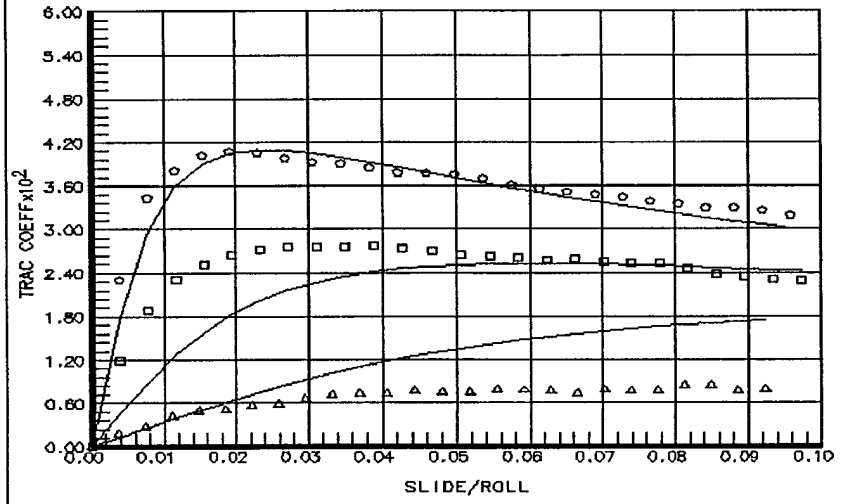
					XMU*	ALFA*	BETA*
△	599MPA	93N	10.13M/S 300K # 3		2.233E+00	6.000E-09	4.590E-02
□	909MPA	320N	10.13M/S 300K # 4		2.233E+00	6.000E-09	4.590E-02
○	1217MPA	765N	10.13M/S 300K # 5		2.233E+00	6.000E-09	4.590E-02



BQ 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1 bq2.dat

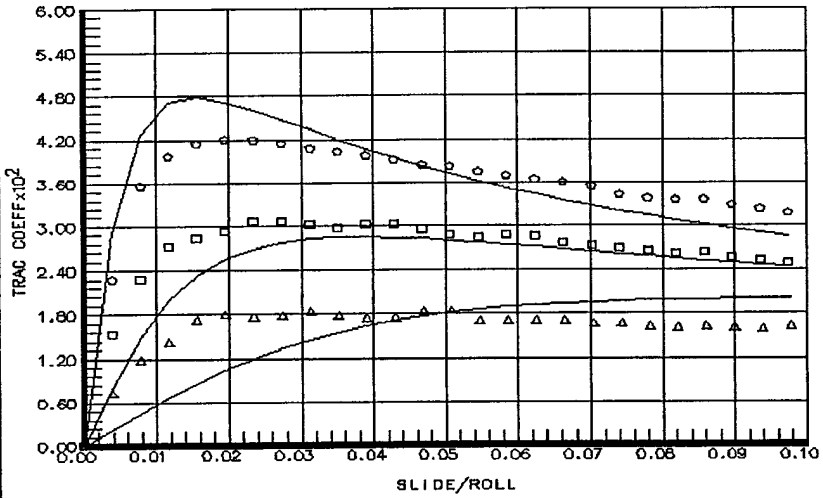
					XMU*	ALFA*	BETA*
△	600MPA	93N	15.24M/S 300K # 8		1.345E+00	6.000E-09	3.942E-02
□	909MPA	320N	15.24M/S 300K # 9		1.345E+00	6.000E-09	3.942E-02
○	1217MPA	765N	15.24M/S 300K # 10		1.345E+00	6.000E-09	3.942E-02



BQ 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1 bq3.dat

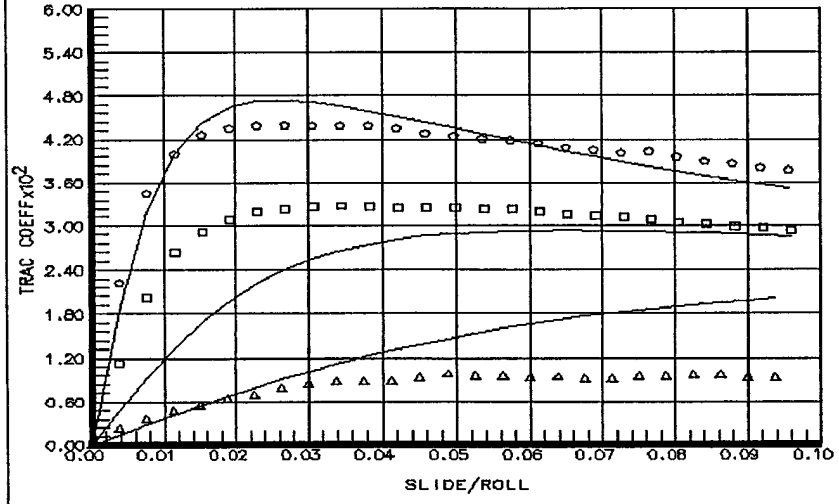
					XMU*	ALFA*	BETA*
△	600MPA	93N	20.34M/S 300K # 13		1.676E+00	6.000E-09	4.247E-02
□	909MPA	320N	20.34M/S 300K # 14		1.676E+00	6.000E-09	4.247E-02
○	1217MPA	765N	20.34M/S 300K # 15		1.676E+00	6.000E-09	4.247E-02



BQ 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1 bq4.dat

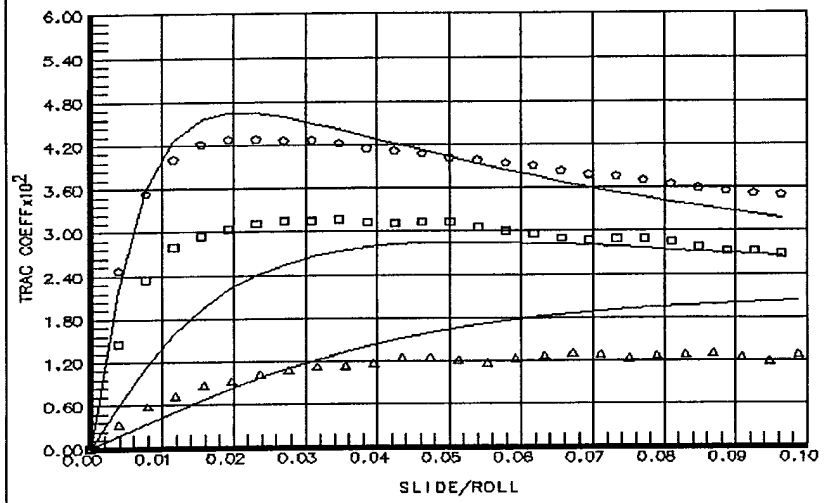
					XMU*	ALFA*	BETA*
△	600MPA	93N	10.13M/S 311K # 63		1.831E+00	6.000E-09	5.130E-02
□	909MPA	320N	10.13M/S 311K # 64		1.831E+00	6.000E-09	5.130E-02
○	1217MPA	765N	10.13M/S 311K # 65		1.831E+00	6.000E-09	5.130E-02



BQ 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1 bq6.dat

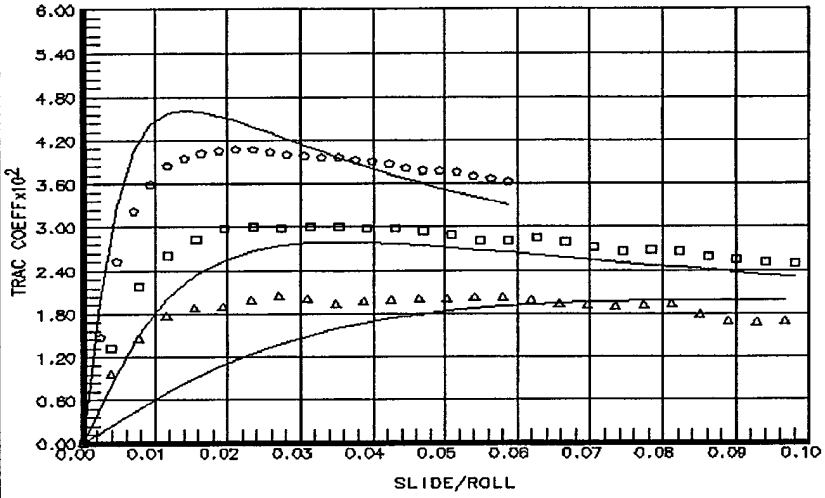
					XMU*	ALFA*	BETA*
△	600MPA	93N	15.24M/S	311K # 68	1.532E+00	6.000E-09	4.261E-02
□	909MPA	320N	15.24M/S	311K # 69	1.532E+00	6.000E-09	4.261E-02
○	1217MPA	765N	15.24M/S	311K # 70	1.532E+00	6.000E-09	4.261E-02



BQ 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1 bq6.dat

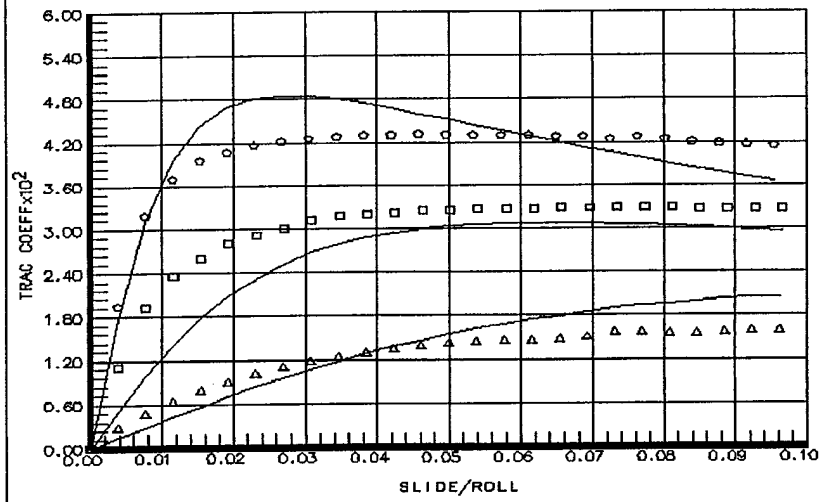
					XMU*	ALFA*	BETA*
△	600MPA	93N	20.34M/S	311K # 73	1.608E+00	6.000E-09	4.782E-02
□	909MPA	320N	20.34M/S	311K # 74	1.608E+00	6.000E-09	4.782E-02
○	1217MPA	765N	20.34M/S	311K # 75	1.608E+00	6.000E-09	4.782E-02



BQ 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1 bq7.dat

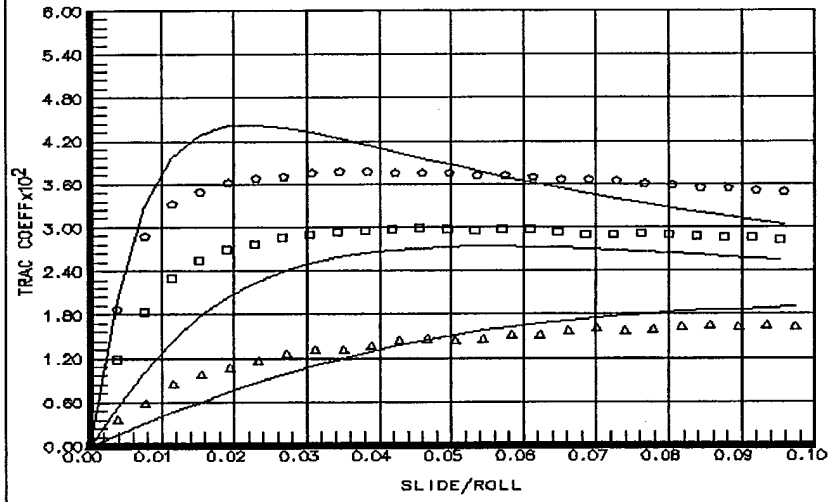
					XMU*	ALFA*	BETA*
△	599MPA	93N	10.13M/S	339K #105	1.169E+00	6.000E-09	7.169E-02
□	909MPA	320N	10.13M/S	339K #106	1.169E+00	6.000E-09	7.169E-02
○	1217MPA	765N	10.13M/S	339K #107	1.169E+00	6.000E-09	7.169E-02



BQ 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1 bq8.dat

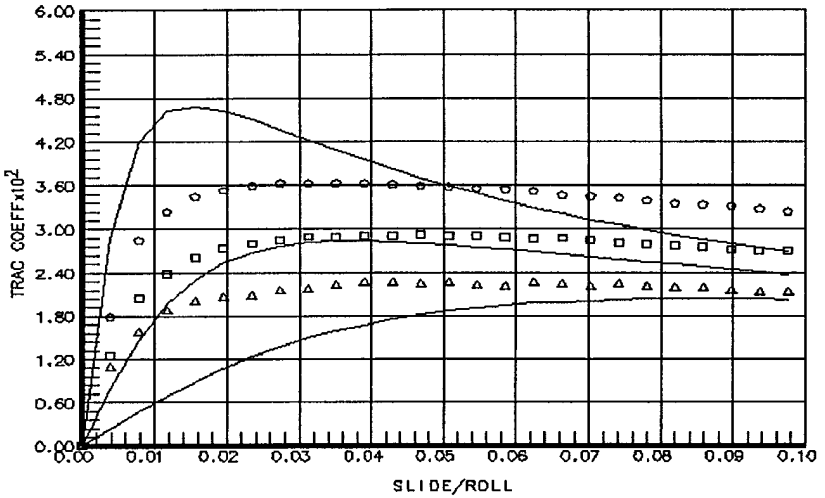
					XMU*	ALFA*	BETA*
△	599MPA	93N	15.24M/S	339K #110	9.917E-01	6.000E-09	5.840E-02
□	910MPA	320N	15.24M/S	339K #111	9.917E-01	6.000E-09	5.840E-02
○	1217MPA	765N	15.24M/S	339K #112	9.917E-01	6.000E-09	5.840E-02



BQ 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1 bq9.dat

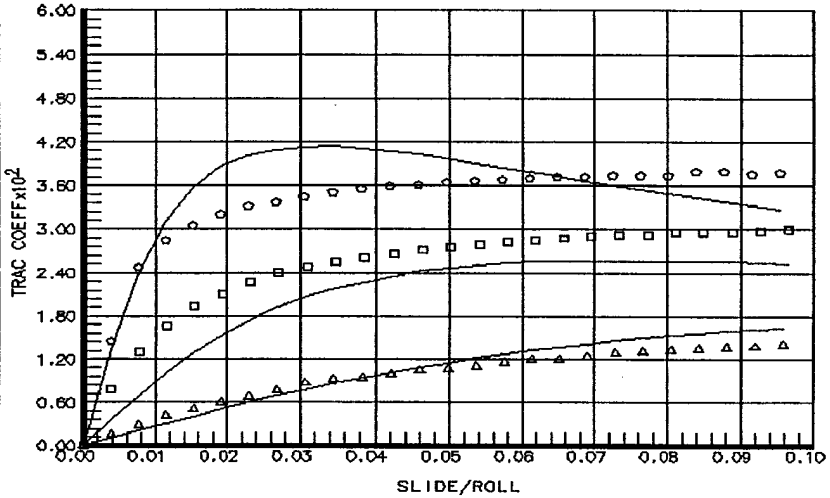
				XMU*	ALFA*	BETA*
△	600MPA	93N	20.34M/S 339K #115	1.216E+00	6.000E-09	5.643E-02
□	909MPA	320N	20.34M/S 339K #116	1.216E+00	6.000E-09	5.643E-02
○	1217MPA	765N	20.34M/S 339K #117	1.216E+00	6.000E-09	5.643E-02



BQ 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1 bq10.dat

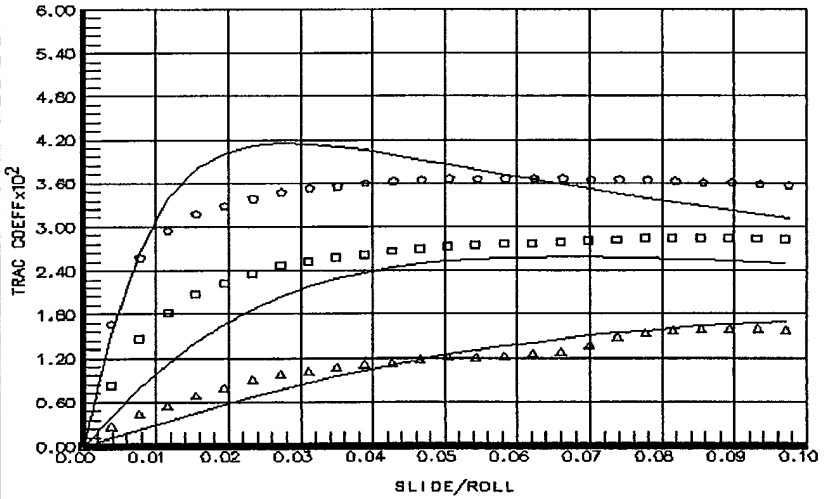
				XMU*	ALFA*	BETA*
△	600MPA	93N	10.13M/S 367K #129	5.399E-01	6.000E-09	1.136E-01
□	909MPA	320N	10.13M/S 367K #130	5.399E-01	6.000E-09	1.136E-01
○	1217MPA	765N	10.13M/S 367K #131	5.399E-01	6.000E-09	1.136E-01



BQ 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1 bq11.dat

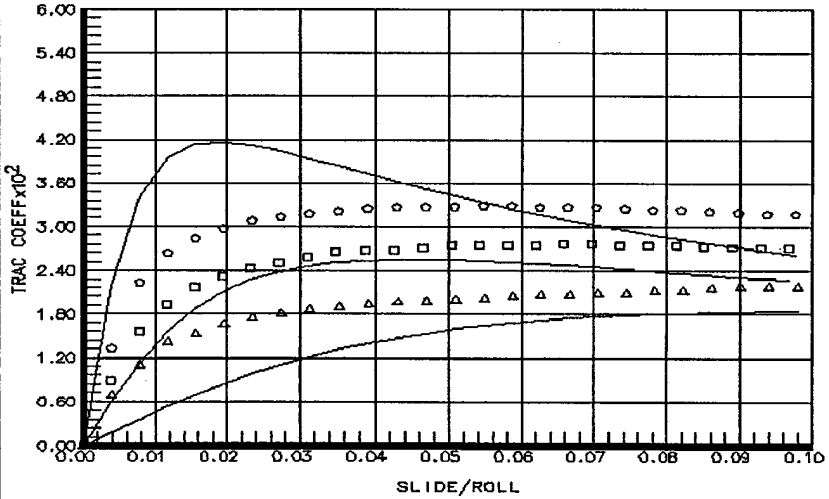
				XMU*	ALFA*	BETA*
△	599MPA	93N	15.24M/S 367K #134	4.872E-01	6.000E-09	7.123E-02
□	909MPA	320N	15.24M/S 367K #135	4.872E-01	6.000E-09	7.123E-02
○	1217MPA	765N	15.24M/S 367K #136	4.872E-01	6.000E-09	7.123E-02



BQ 81-288 ApiezonC+5%Bardhal(VacKote)

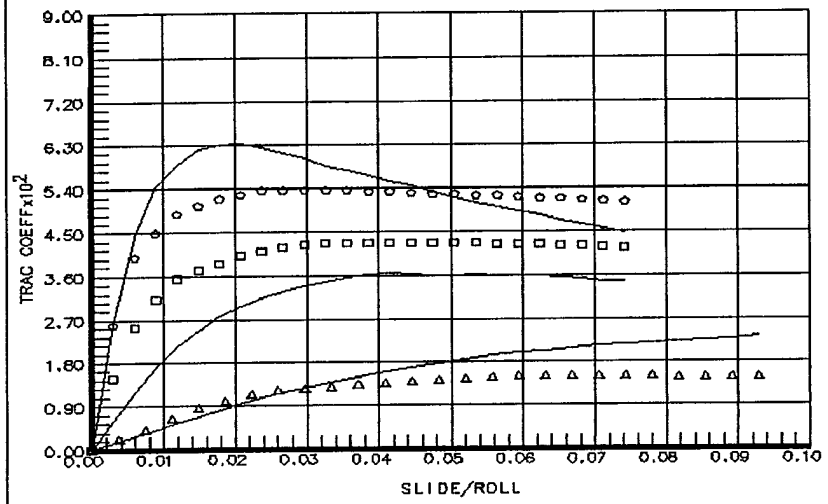
NEWTONIAN MODEL TYPE 1 bq12.dat

				XMU*	ALFA*	BETA*
△	599MPA	93N	20.34M/S 367K #139	6.307E-01	6.000E-09	7.241E-02
□	909MPA	320N	20.34M/S 367K #140	6.307E-01	6.000E-09	7.241E-02
○	1217MPA	765N	20.34M/S 367K #141	6.307E-01	6.000E-09	7.241E-02



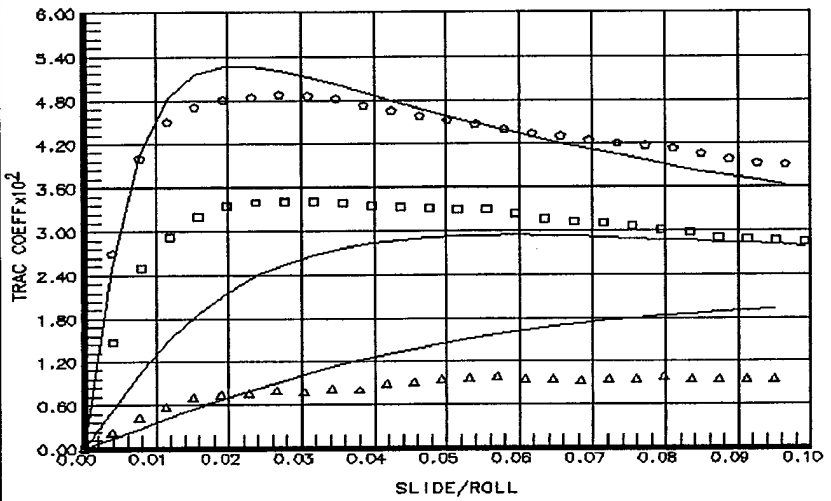
BO 81-288 ApiezonC+5%Bardhal(VacKote)
NEWTONIAN MODEL TYPE 1 bo1.dat

				XMU*	ALFA*	BETA*
△	662MPA	85N	5.08M/S 300K # 73	4.126E+00	6.000E-09	8.963E-02
□	998MPA	289N	5.08M/S 300K # 19	4.126E+00	6.000E-09	8.963E-02
○	1329MPA	685N	5.08M/S 300K # 20	4.126E+00	6.000E-09	8.963E-02



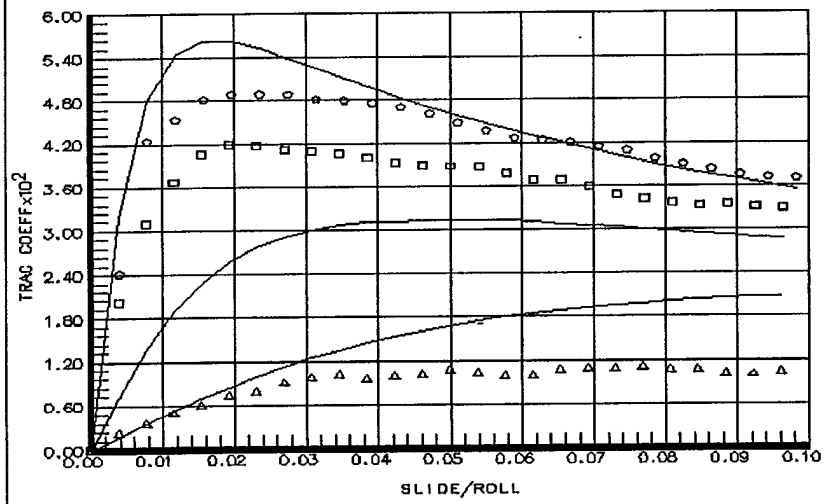
BO 81-288 ApiezonC+5%Bardhal(VacKote)
NEWTONIAN MODEL TYPE 1 bo2.dat

				XMU*	ALFA*	BETA*
△	662MPA	85N	10.16M/S 300K # 59	1.696E+00	6.000E-09	4.312E-02
□	998MPA	289N	10.16M/S 300K # 24	1.696E+00	6.000E-09	4.312E-02
○	1329MPA	685N	10.16M/S 300K # 86	1.696E+00	6.000E-09	4.312E-02



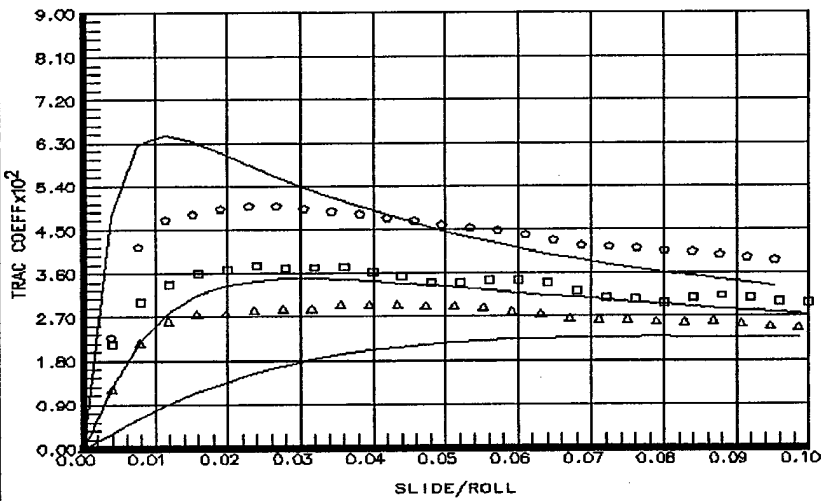
BO 81-288 ApiezonC+5%Bardhal(VacKote)
NEWTONIAN MODEL TYPE 1 bo3.dat

				XMU*	ALFA*	BETA*
△	661MPA	85N	15.24M/S 300K # 54	1.452E+00	6.000E-09	3.482E-02
□	998MPA	289N	15.24M/S 300K # 98	1.452E+00	6.000E-09	3.482E-02
○	1329MPA	685N	15.24M/S 300K # 87	1.452E+00	6.000E-09	3.482E-02



BO 81-288 ApiezonC+5%Bardhal(VacKote)
NEWTONIAN MODEL TYPE 1 bo4.dat

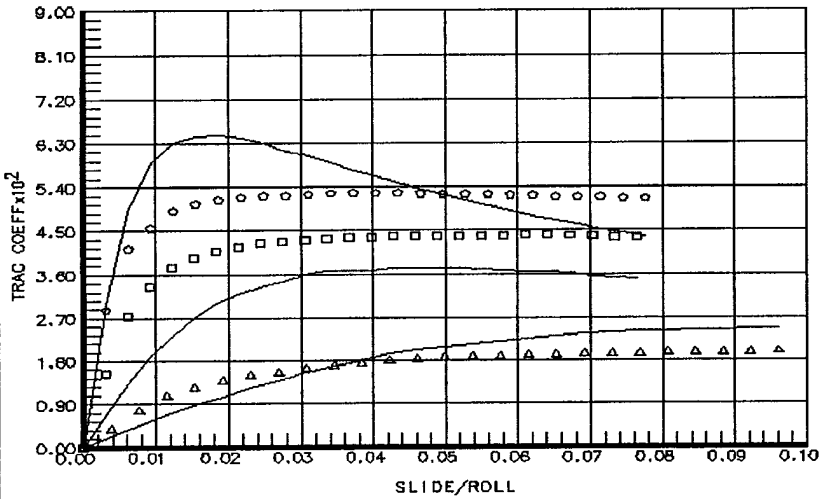
				XMU*	ALFA*	BETA*
△	664MPA	85N	20.32M/S 300K # 29	1.782E+00	6.000E-09	3.808E-02
□	997MPA	289N	20.32M/S 300K # 48	1.782E+00	6.000E-09	3.808E-02
○	1329MPA	685N	20.32M/S 300K # 88	1.782E+00	6.000E-09	3.808E-02



BO 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1 bo5.dat

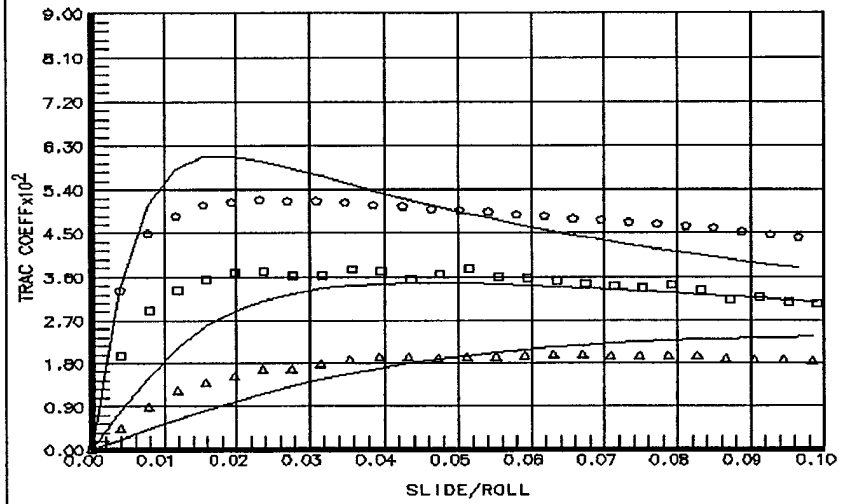
				XMU*	ALFA*	BETA*
△	663MPA	85N	5.08M/S 311K #148	3.348E+00	6.000E-09	1.132E-01
□	998MPA	289N	5.08M/S 311K #166	3.348E+00	6.000E-09	1.132E-01
○	1329MPA	685N	5.08M/S 311K #167	3.348E+00	6.000E-09	1.132E-01



BO 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1 bo6.dat

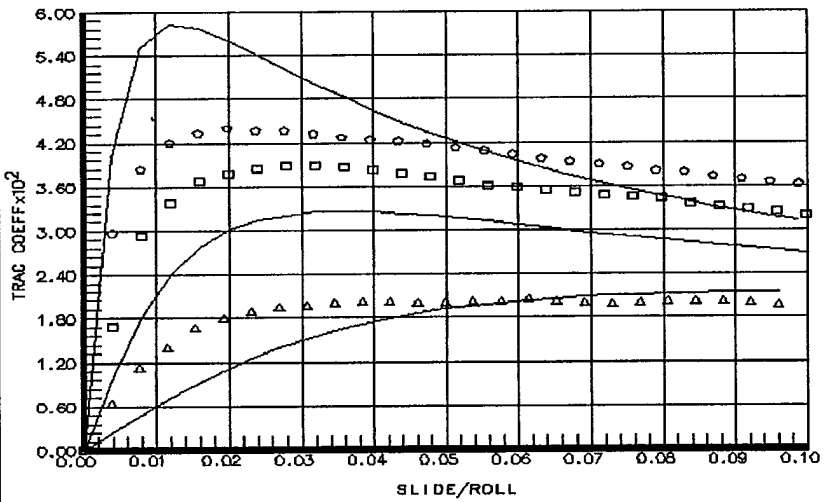
				XMU*	ALFA*	BETA*
△	663MPA	85N	10.16M/S 311K #176	2.087E+00	6.000E-09	5.128E-02
□	998MPA	289N	10.16M/S 311K #111	2.087E+00	6.000E-09	5.128E-02
○	1329MPA	685N	10.16M/S 311K #139	2.087E+00	6.000E-09	5.128E-02



BO 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1 bo7.dat

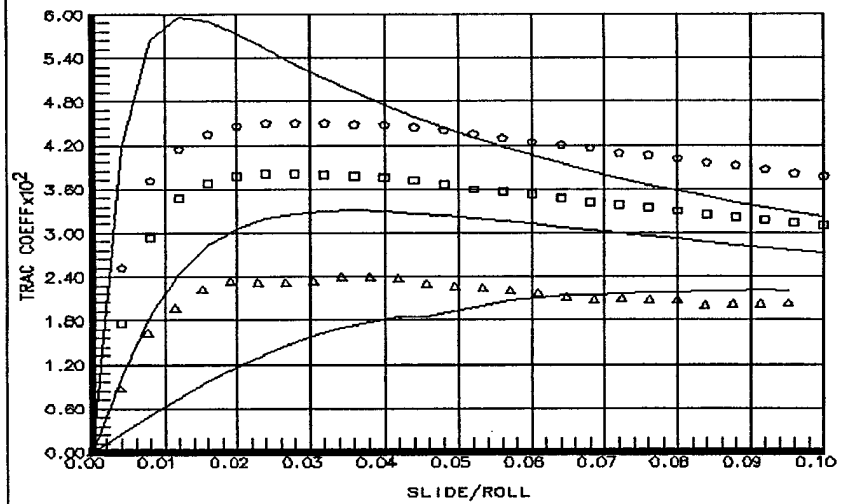
				XMU*	ALFA*	BETA*
△	664MPA	85N	15.24M/S 311K #179	1.790E+00	6.000E-09	4.721E-02
□	998MPA	289N	15.24M/S 311K #180	1.790E+00	6.000E-09	4.721E-02
○	1329MPA	685N	15.24M/S 311K #142	1.790E+00	6.000E-09	4.721E-02



BO 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1 bo8.dat

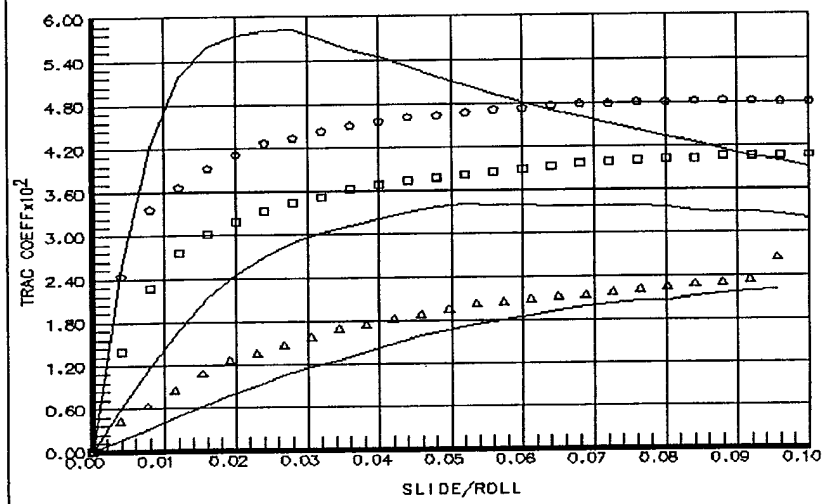
				XMU*	ALFA*	BETA*
△	664MPA	85N	20.32M/S 311K #151	1.346E+00	6.000E-09	3.682E-02
□	998MPA	289N	20.32M/S 311K #183	1.346E+00	6.000E-09	3.682E-02
○	1329MPA	685N	20.32M/S 311K #184	1.346E+00	6.000E-09	3.682E-02



BO 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1 bo9.dat

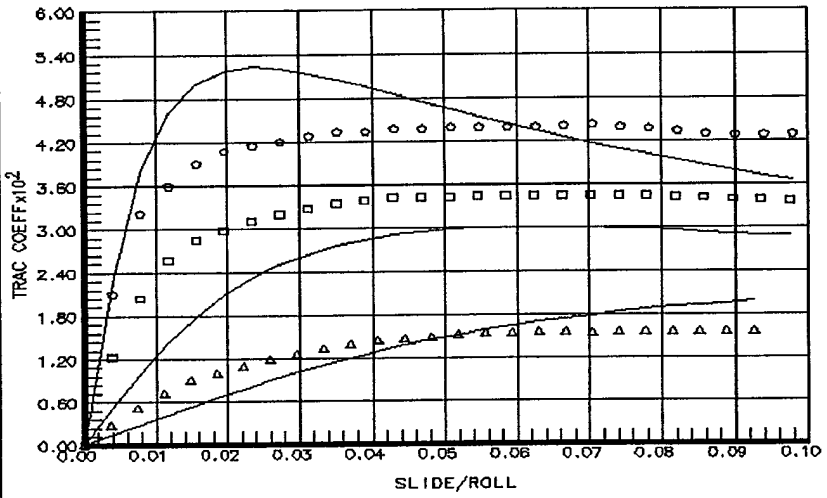
				XMU*	ALFA*	BETA*
△	663MPA	85N	5.08M/S 339K #193	1.326E+00	6.000E-09	1.655E-01
□	998MPA	289N	5.08M/S 339K #209	1.326E+00	6.000E-09	1.655E-01
○	1329MPA	685N	5.08M/S 339K #210	1.326E+00	6.000E-09	1.655E-01



BO 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1 bo10.dat

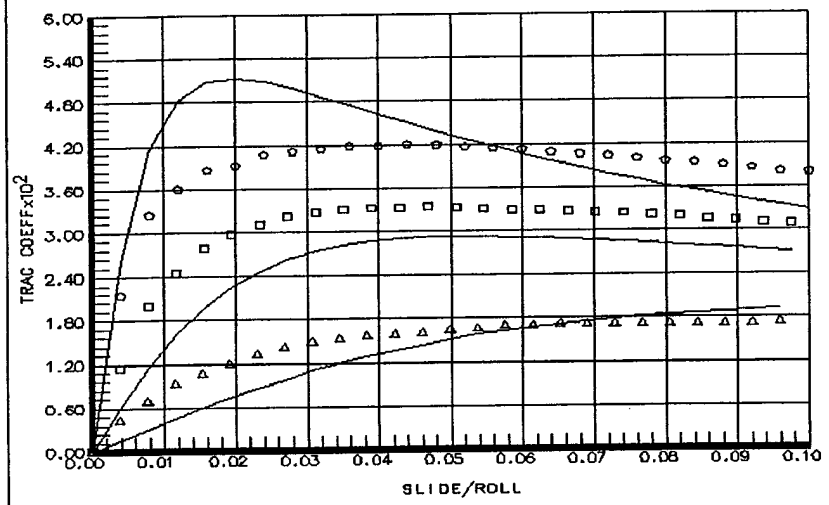
				XMU*	ALFA*	BETA*
△	664MPA	85N	10.16M/S 339K #196	8.728E-01	6.000E-09	6.736E-02
□	998MPA	289N	10.16M/S 339K #197	8.728E-01	6.000E-09	6.736E-02
○	1329MPA	685N	10.16M/S 339K #198	8.728E-01	6.000E-09	6.736E-02



BO 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1 bo11.dat

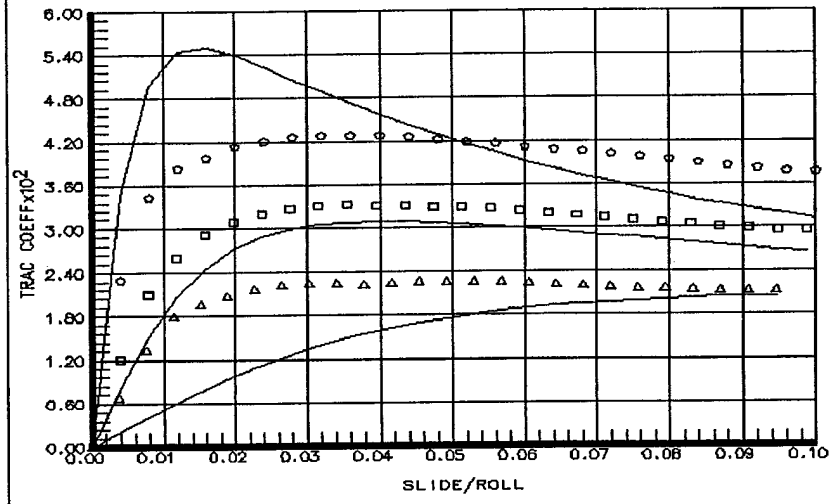
				XMU*	ALFA*	BETA*
△	664MPA	85N	15.24M/S 339K #199	7.427E-01	6.000E-09	4.903E-02
□	998MPA	289N	15.24M/S 339K #200	7.427E-01	6.000E-09	4.903E-02
○	1329MPA	685N	15.24M/S 339K #201	7.427E-01	6.000E-09	4.903E-02



BO 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1 bo12.dat

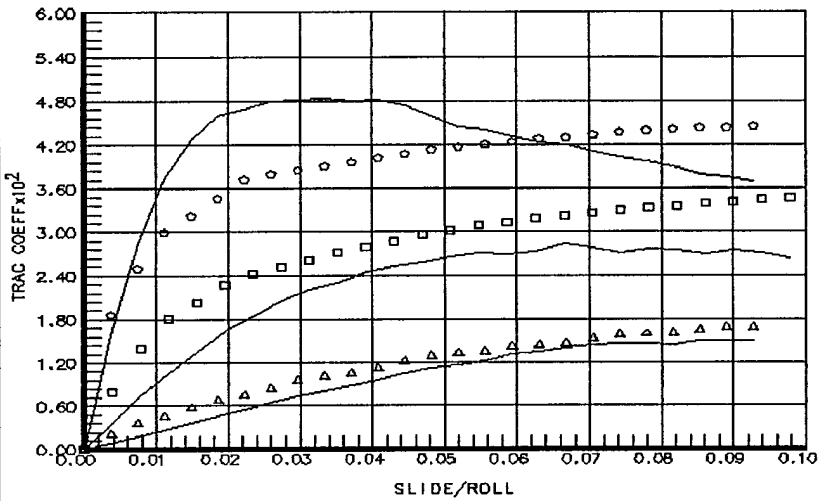
				XMU*	ALFA*	BETA*
△	664MPA	85N	20.32M/S 339K #202	8.265E-01	6.000E-09	4.315E-02
□	998MPA	289N	20.32M/S 339K #203	8.265E-01	6.000E-09	4.315E-02
○	1329MPA	685N	20.32M/S 339K #204	8.265E-01	6.000E-09	4.315E-02



BO 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1 bo13.dat

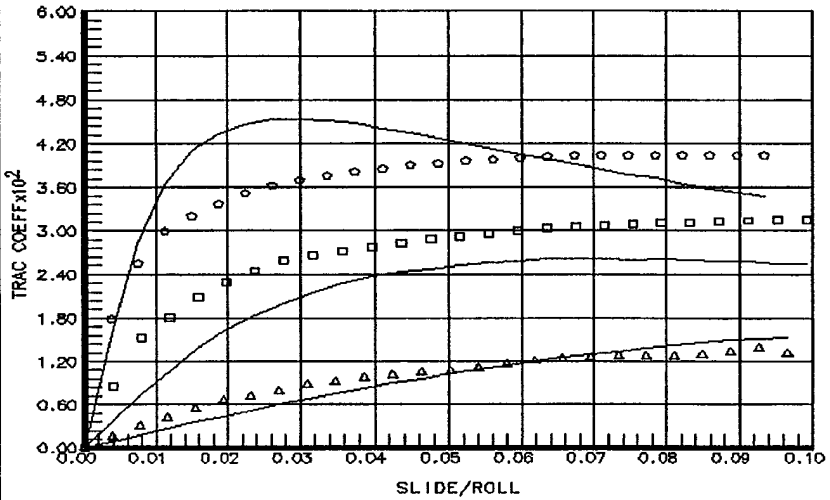
				XMU*	ALFA*	BETA*
△	663MPA	85N	5.08M/S 367K #217	5.084E-01	6.000E-09	2.599E-01
□	998MPA	289N	5.08M/S 367K #218	5.084E-01	6.000E-09	2.599E-01
○	1329MPA	685N	5.08M/S 367K #219	5.084E-01	6.000E-09	2.599E-01



BO 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1 bo14.dat

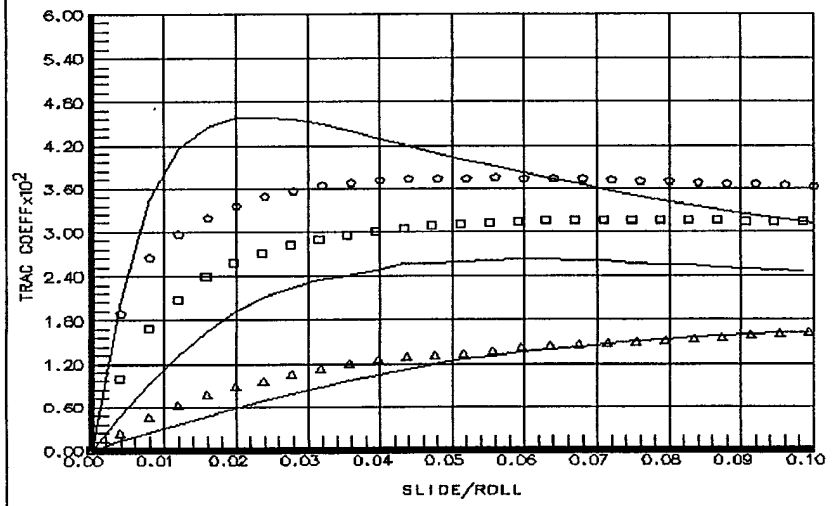
				XMU*	ALFA*	BETA*
△	664MPA	85N	10.16M/S 367K #220	3.643E-01	6.000E-09	9.855E-02
□	998MPA	289N	10.16M/S 367K #221	3.643E-01	6.000E-09	9.855E-02
○	1329MPA	685N	10.16M/S 367K #222	3.643E-01	6.000E-09	9.855E-02



BO 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1 bo15.dat

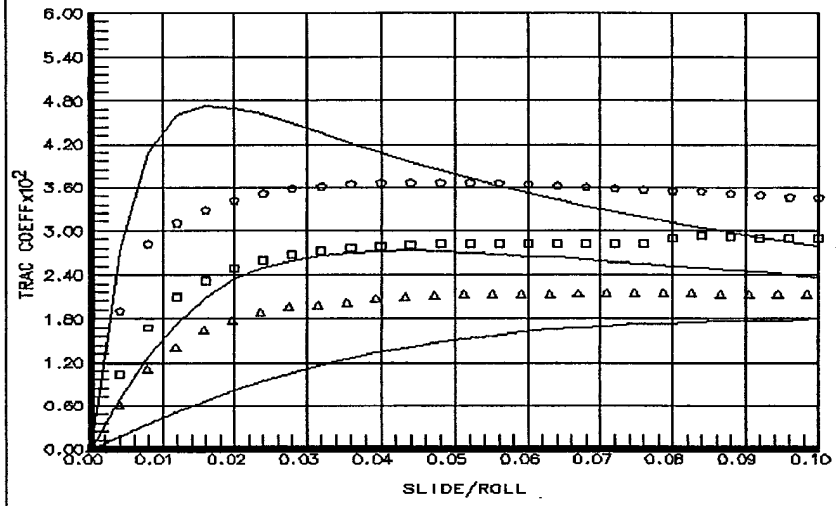
				XMU*	ALFA*	BETA*
△	664MPA	85N	15.24M/S 367K #223	3.722E-01	6.000E-09	6.838E-02
□	998MPA	289N	15.24M/S 367K #224	3.722E-01	6.000E-09	6.838E-02
○	1329MPA	685N	15.24M/S 367K #225	3.722E-01	6.000E-09	6.838E-02



BO 81-288 ApiezonC+5%Bardhal(VacKote)

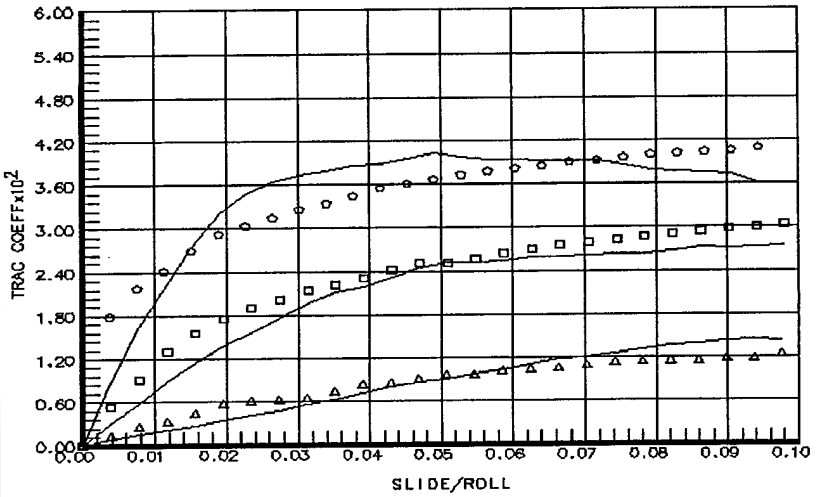
NEWTONIAN MODEL TYPE 1 bo16.dat

				XMU*	ALFA*	BETA*
△	664MPA	85N	20.32M/S 367K #226	4.522E-01	6.000E-09	6.118E-02
□	998MPA	289N	20.32M/S 367K #227	4.522E-01	6.000E-09	6.118E-02
○	1329MPA	685N	20.32M/S 367K #228	4.522E-01	6.000E-09	6.118E-02



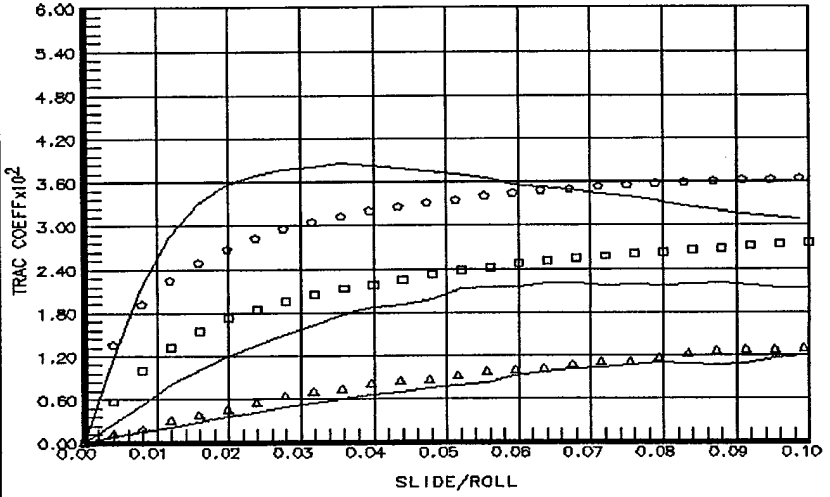
BO 81-288 ApiezonC+5%Bardhal(VacKote)
NEWTONIAN MODEL TYPE 1 bo17.dat

					XMU*	ALFA*	BETA*
△	663MPA	85N	5.08M/S	394K #246	2.058E-01	6.000E-09	3.166E-01
□	998MPA	289N	5.08M/S	394K #246	2.058E-01	6.000E-09	3.166E-01
○	1329MPA	685N	5.08M/S	394K #247	2.058E-01	6.000E-09	3.166E-01



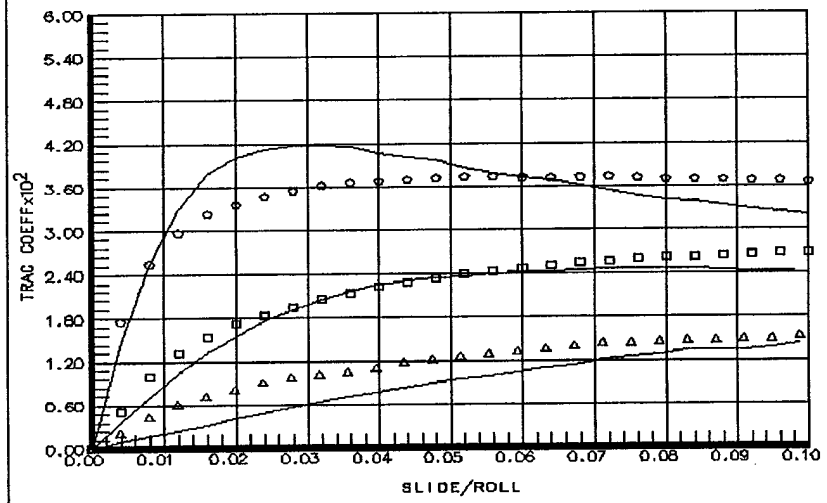
BO 81-288 ApiezonC+5%Bardhal(VacKote)
NEWTONIAN MODEL TYPE 1 bo18.dat

					XMU*	ALFA*	BETA*
△	664MPA	85N	10.16M/S	394K #248	1.806E-01	6.000E-09	1.534E-01
□	998MPA	289N	10.16M/S	394K #249	1.806E-01	6.000E-09	1.534E-01
○	1329MPA	685N	10.16M/S	394K #235	1.806E-01	6.000E-09	1.534E-01



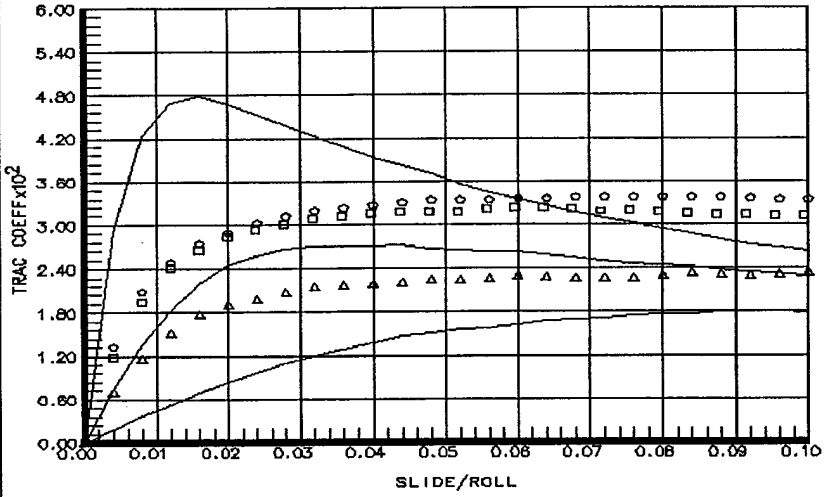
BO 81-288 ApiezonC+5%Bardhal(VacKote)
NEWTONIAN MODEL TYPE 1 bo19.dat

					XMU*	ALFA*	BETA*
△	663MPA	85N	15.24M/S	394K #251	1.898E-01	6.000E-09	8.749E-02
□	998MPA	289N	15.24M/S	394K #236	1.898E-01	6.000E-09	8.749E-02
○	1329MPA	685N	15.24M/S	394K #253	1.898E-01	6.000E-09	8.749E-02



BO 81-288 ApiezonC+5%Bardhal(VacKote)
NEWTONIAN MODEL TYPE 1 bo20.dat

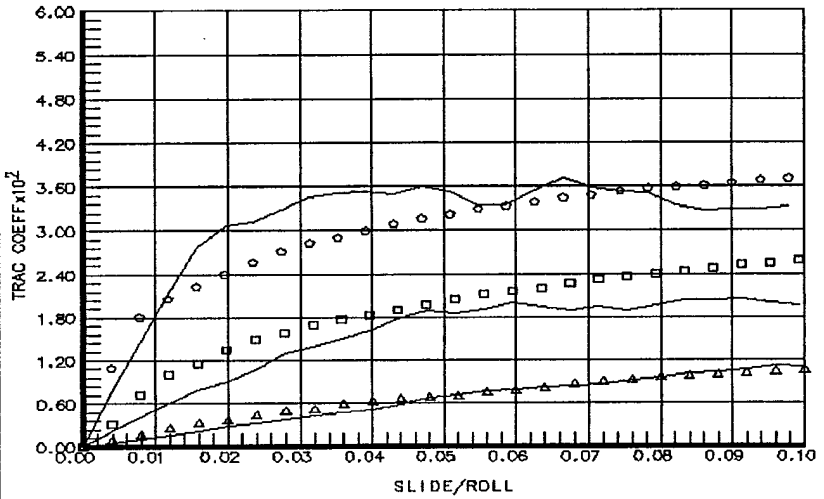
					XMU*	ALFA*	BETA*
△	664MPA	85N	20.32M/S	394K #254	3.452E-01	6.000E-09	9.467E-02
□	998MPA	289N	20.32M/S	394K #255	3.452E-01	6.000E-09	9.467E-02
○	1329MPA	685N	20.32M/S	394K #238	3.452E-01	6.000E-09	9.467E-02



BO 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1 bo21.dat

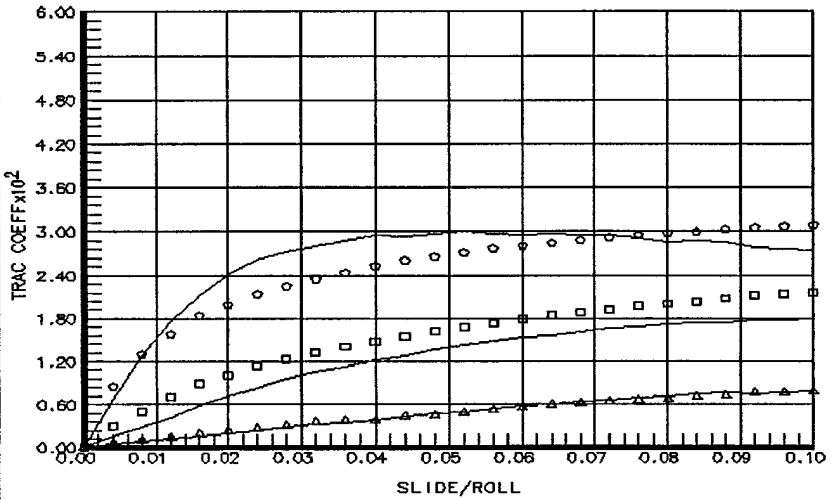
				XMU*	ALFA*	BETA*
△	663MPA	85N	5.08M/S 422K #263	8.983E-02	6.000E-09	4.957E-01
□	998MPA	289N	5.08M/S 422K #264	8.983E-02	6.000E-09	4.957E-01
○	1329MPA	685N	5.08M/S 422K #265	8.983E-02	6.000E-09	4.957E-01



BO 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1 bo22.dat

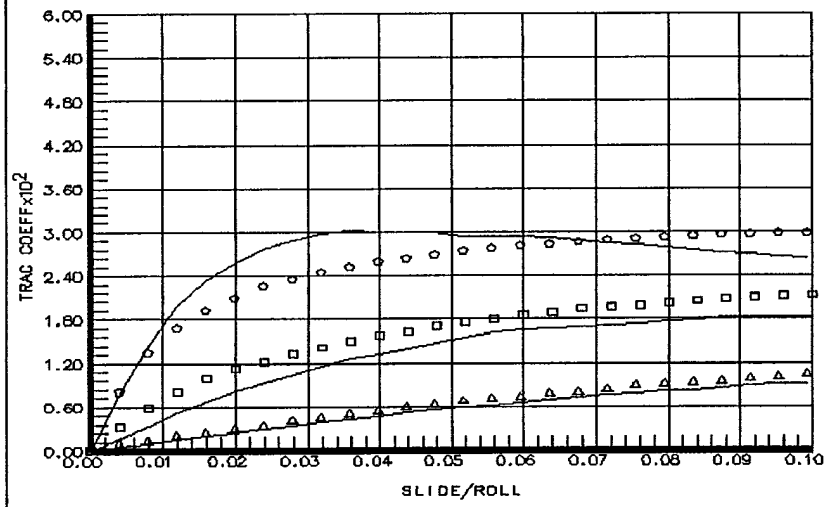
				XMU*	ALFA*	BETA*
△	664MPA	85N	10.16M/S 422K #266	8.334E-02	6.000E-09	1.976E-01
□	998MPA	289N	10.16M/S 422K #267	8.334E-02	6.000E-09	1.976E-01
○	1329MPA	685N	10.16M/S 422K #268	8.334E-02	6.000E-09	1.976E-01



BO 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1 bo23.dat

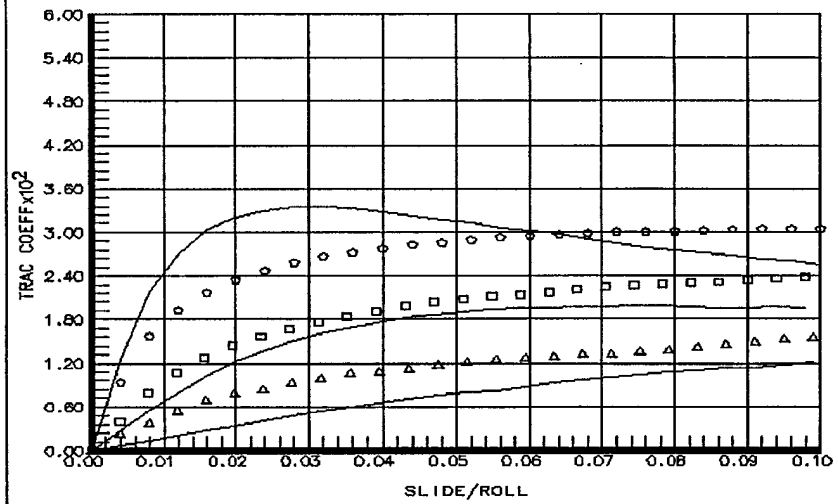
				XMU*	ALFA*	BETA*
△	664MPA	85N	15.24M/S 422K #269	6.533E-02	6.000E-09	1.236E-01
□	998MPA	289N	15.24M/S 422K #270	6.533E-02	6.000E-09	1.236E-01
○	1329MPA	685N	15.24M/S 422K #271	6.533E-02	6.000E-09	1.236E-01



BO 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1 bo24.dat

				XMU*	ALFA*	BETA*
△	664MPA	85N	20.32M/S 422K #272	8.996E-02	6.000E-09	1.022E-01
□	998MPA	289N	20.32M/S 422K #273	8.996E-02	6.000E-09	1.022E-01
○	1329MPA	685N	20.32M/S 422K #274	8.996E-02	6.000E-09	1.022E-01



10. Traction Data Set I: 81-288 Apiezon C + 5% Bardhal (VacKote)/2

Data set name: BQ 81-288 ApiezonC+5%Bardhal(VacKote)
Rolling radii [Disks 1 & 2] (in): 0.75 0.75
Crown radii [Disks 1 & 2] (in): 15.00 13.00

Number of data sets found = 249

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
1	80.00	3.48	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	1.36E-04	bq80h2 #1
2	80.00	8.45	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	1.17E-04	bq80h2 #2
3	80.00	20.52	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	1.39E-05	bq80h2 #3
4	80.00	71.64	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	2.42E-05	bq80h2 #4
5	80.00	171.75	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	4.11E-05	bq80h2 #5
6	80.00	3.48	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	9.33E-04	bq80h2 #6
7	80.00	8.45	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	1.95E-04	bq80h2 #7
8	80.00	20.52	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	4.74E-05	bq80h2 #8
9	80.00	71.64	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	1.03E-05	bq80h2 #9
10	80.00	171.75	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	5.77E-05	bq80h2 #10
11	80.00	3.48	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	2.39E-04	bq80h2 #11
12	80.00	8.45	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	1.64E-04	bq80h2 #12
13	80.00	20.52	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	7.66E-05	bq80h2 #13
14	80.00	71.64	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	2.93E-05	bq80h2 #14
15	80.00	171.75	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	1.03E-05	bq80h2 #15
16	80.00	3.48	72.00	80.00	76.00	100	0.71	1.49	1.00	1.00	1.00	3.43E-03	bq80l2 #1
17	80.00	8.45	72.00	80.00	76.00	100	0.71	1.49	1.00	1.00	1.00	9.75E-04	bq80l2 #2
18	80.00	20.52	72.00	80.00	76.00	100	0.71	1.49	1.00	1.00	1.00	3.70E-03	bq80l2 #3
19	80.00	71.64	72.00	80.00	76.00	100	0.71	1.49	1.00	1.00	1.00	2.35E-02	bq80l2 #4
20	80.00	171.75	72.00	80.00	76.00	100	0.71	1.49	1.00	1.00	1.00	2.31E-03	bq80l2 #5
21	80.00	3.48	144.00	160.00	152.00	100	0.71	1.49	1.00	1.00	1.00	5.79E-04	bq80l2 #6
22	80.00	8.45	144.00	160.00	152.00	100	0.71	1.49	1.00	1.00	1.00	1.55E-03	bq80l2 #7
23	80.00	20.52	144.00	160.00	152.00	100	0.71	1.49	1.00	1.00	1.00	3.48E-04	bq80l2 #8
24	80.00	71.64	144.00	160.00	152.00	100	0.71	1.49	1.00	1.00	1.00	4.37E-03	bq80l2 #9
25	80.00	171.75	144.00	160.00	152.00	100	0.71	1.49	1.00	1.00	1.00	1.29E-02	bq80l2 #10
26	80.00	3.48	326.00	360.00	343.00	100	0.71	1.49	1.00	1.00	1.00	4.01E-04	bq80l2 #11
27	80.00	8.45	326.00	360.00	343.00	100	0.71	1.49	1.00	1.00	1.00	8.39E-04	bq80l2 #12
28	80.00	20.52	326.00	360.00	343.00	100	0.71	1.49	1.00	1.00	1.00	1.77E-04	bq80l2 #13
29	80.00	71.64	326.00	360.00	343.00	100	0.71	1.49	1.00	1.00	1.00	1.00E-03	bq80l2 #14
30	80.00	171.75	326.00	360.00	343.00	100	0.71	1.49	1.00	1.00	1.00	1.01E-04	bq80l2 #15
31	80.00	3.48	617.00	682.00	649.50	100	0.71	1.49	1.00	1.00	1.00	1.69E-04	bq80l2 #16
32	80.00	8.45	617.00	682.00	649.50	100	0.71	1.49	1.00	1.00	1.00	2.35E-05	bq80l2 #17
33	80.00	20.52	617.00	682.00	649.50	100	0.71	1.49	1.00	1.00	1.00	1.27E-04	bq80l2 #18
34	80.00	71.64	617.00	682.00	649.50	100	0.71	1.49	1.00	1.00	1.00	4.96E-05	bq80l2 #19
35	80.00	171.75	617.00	682.00	649.50	100	0.71	1.49	1.00	1.00	1.00	2.25E-04	bq80l2 #20
36	80.00	3.48	1197.00	1323.00	1260.00	100	0.71	1.49	1.00	1.00	1.00	8.67E-05	bq80l2 #21
37	80.00	8.45	1197.00	1323.00	1260.00	100	0.71	1.49	1.00	1.00	1.00	4.23E-05	bq80l2 #22
38	80.00	20.52	1197.00	1323.00	1260.00	100	0.71	1.49	1.00	1.00	1.00	7.98E-06	bq80l2 #23
39	80.00	71.64	1197.00	1323.00	1260.00	100	0.71	1.49	1.00	1.00	1.00	3.35E-05	bq80l2 #24
40	80.00	171.75	1197.00	1323.00	1260.00	100	0.71	1.49	1.00	1.00	1.00	1.86E-05	bq80l2 #25
41	80.00	3.48	2431.00	2687.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	3.44E-04	bq80l2 #26
42	80.00	8.45	2431.00	2687.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	1.22E-04	bq80l2 #27
43	80.00	20.52	2431.00	2687.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	7.78E-06	bq80l2 #28
44	80.00	71.64	2431.00	2687.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	1.24E-05	bq80l2 #29
45	80.00	171.75	2431.00	2687.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	8.26E-06	bq80l2 #30
46	80.00	71.64	72.00	80.00	76.00	200	0.71	1.49	1.00	1.00	1.00	2.63E-03	bq80l2x #1
47	80.00	171.75	72.00	80.00	76.00	200	0.71	1.49	1.00	1.00	1.00	4.40E-02	bq80l2x #2
48	80.00	71.64	144.00	160.00	152.00	200	0.71	1.49	1.00	1.00	1.00	3.55E-04	bq80l2x #3
49	80.00	171.75	144.00	160.00	152.00	200	0.71	1.49	1.00	1.00	1.00	4.84E-03	bq80l2x #4
50	80.00	71.64	326.00	360.00	343.00	200	0.71	1.49	1.00	1.00	1.00	3.08E-03	bq80l2x #5

Data set: BQ 81-288 ApiezonC+5%Bardhal(VacKote) ....continued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
51	80.00	171.75	326.00	360.00	343.00	200	0.71	1.49	1.00	1.00	1.00	8.80E-04	bq80l2x #6
52	80.00	3.48	72.00	80.00	76.00	200	0.71	1.49	1.00	1.00	1.00	8.15E-04	bq80lx #1
53	80.00	8.45	72.00	80.00	76.00	200	0.71	1.49	1.00	1.00	1.00	2.35E-03	bq80lx #2
54	80.00	20.52	72.00	80.00	76.00	200	0.71	1.49	1.00	1.00	1.00	1.80E-03	bq80lx #3
55	80.00	3.48	144.00	160.00	152.00	200	0.71	1.49	1.00	1.00	1.00	1.16E-03	bq80lx #4
56	80.00	8.45	144.00	160.00	152.00	200	0.71	1.49	1.00	1.00	1.00	1.62E-03	bq80lx #5
57	80.00	20.52	144.00	160.00	152.00	200	0.71	1.49	1.00	1.00	1.00	1.67E-03	bq80lx #6
58	80.00	3.48	326.00	360.00	343.00	200	0.71	1.49	1.00	1.00	1.00	4.61E-03	bq80lx #7
59	80.00	8.45	326.00	360.00	343.00	200	0.71	1.49	1.00	1.00	1.00	1.50E-01	bq80lx #8
60	80.00	20.52	326.00	360.00	343.00	200	0.71	1.49	1.00	1.00	1.00	9.82E-05	bq80lx #9
61	100.00	3.48	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	1.79E-04	bq100h2 #1
62	100.00	8.45	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	2.13E-05	bq100h2 #2
63	100.00	20.52	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	3.24E-05	bq100h2 #3
64	100.00	71.64	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	4.86E-05	bq100h2 #4
65	100.00	171.75	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	6.43E-05	bq100h2 #5
66	100.00	3.48	7259.00	8019.00	7639.00	99	0.71	1.49	1.00	1.00	1.00	2.20E-04	bq100h2 #6
67	100.00	8.45	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	3.76E-05	bq100h2 #7
68	100.00	20.52	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	1.84E-05	bq100h2 #8
69	100.00	71.64	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	2.93E-05	bq100h2 #9
70	100.00	171.75	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	8.50E-06	bq100h2 #10
71	100.00	3.48	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	1.08E-04	bq100h2 #11
72	100.00	8.45	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	1.58E-04	bq100h2 #12
73	100.00	20.52	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	5.29E-05	bq100h2 #13
74	100.00	71.64	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	1.59E-05	bq100h2 #14
75	100.00	171.75	9688.00	10708.00	10198.00	80	0.71	1.49	1.00	1.00	1.00	7.06E-03	bq100h2 #15
76	100.00	3.48	72.00	80.00	76.00	100	0.71	1.49	1.00	1.00	1.00	1.48E-03	bq100l2 #1
77	100.00	8.45	72.00	80.00	76.00	100	0.71	1.49	1.00	1.00	1.00	2.85E-03	bq100l2 #2
78	100.00	20.52	72.00	80.00	76.00	100	0.71	1.49	1.00	1.00	1.00	4.10E-03	bq100l2 #3
79	100.00	71.64	72.00	80.00	76.00	99	0.71	1.49	1.00	1.00	1.00	6.36E-03	bq100l2 #4
80	100.00	171.75	72.00	80.00	76.00	99	0.71	1.49	1.00	1.00	1.00	3.17E-02	bq100l2 #5
81	100.00	3.48	144.00	160.00	152.00	100	0.71	1.49	1.00	1.00	1.00	1.53E-04	bq100l2 #6
82	100.00	8.45	144.00	160.00	152.00	100	0.71	1.49	1.00	1.00	1.00	3.55E-04	bq100l2 #7
83	100.00	20.52	144.00	160.00	152.00	100	0.71	1.49	1.00	1.00	1.00	5.87E-04	bq100l2 #8
84	100.00	71.64	144.00	160.00	152.00	100	0.71	1.49	1.00	1.00	1.00	4.57E-03	bq100l2 #9
85	100.00	171.75	144.00	160.00	152.00	100	0.71	1.49	1.00	1.00	1.00	1.34E-03	bq100l2 #10
86	100.00	3.48	326.00	360.00	343.00	100	0.71	1.49	1.00	1.00	1.00	6.66E-05	bq100l2 #11
87	100.00	8.45	326.00	360.00	343.00	100	0.71	1.49	1.00	1.00	1.00	2.40E-04	bq100l2 #12
88	100.00	20.52	326.00	360.00	343.00	100	0.71	1.49	1.00	1.00	1.00	2.43E-04	bq100l2 #13
89	100.00	71.64	326.00	360.00	343.00	100	0.71	1.49	1.00	1.00	1.00	7.96E-05	bq100l2 #14
90	100.00	171.75	326.00	360.00	343.00	100	0.71	1.49	1.00	1.00	1.00	1.54E-04	bq100l2 #15
91	100.00	8.45	617.00	682.00	649.50	100	0.71	1.49	1.00	1.00	1.00	2.36E-05	bq100l2 #17
92	100.00	20.52	617.00	682.00	649.50	100	0.71	1.49	1.00	1.00	1.00	7.62E-05	bq100l2 #18
93	100.00	71.64	617.00	682.00	649.50	100	0.71	1.49	1.00	1.00	1.00	1.87E-04	bq100l2 #19
94	100.00	171.75	617.00	682.00	649.50	100	0.71	1.49	1.00	1.00	1.00	6.38E-05	bq100l2 #20
95	100.00	3.48	1197.00	1323.00	1260.00	100	0.71	1.49	1.00	1.00	1.00	1.55E-04	bq100l2 #21
96	100.00	8.45	1197.00	1323.00	1260.00	100	0.71	1.49	1.00	1.00	1.00	3.91E-05	bq100l2 #22
97	100.00	20.52	1197.00	1323.00	1260.00	100	0.71	1.49	1.00	1.00	1.00	7.23E-06	bq100l2 #23
98	100.00	71.64	1197.00	1323.00	1260.00	100	0.71	1.49	1.00	1.00	1.00	3.81E-05	bq100l2 #24
99	100.00	171.75	1197.00	1323.00	1260.00	100	0.71	1.49	1.00	1.00	1.00	8.35E-06	bq100l2 #25
100	100.00	3.48	2431.00	2687.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	2.87E-04	bq100l2 #26
101	100.00	8.45	2431.00	2687.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	9.84E-05	bq100l2 #27
102	100.00	20.52	2431.00	2687.00	2559.00	71	0.71	1.49	1.00	1.00	1.00	3.41E-03	bq100l2 #28
103	150.00	3.48	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	3.29E-04	bq150h2 #1
104	150.00	8.45	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	2.20E-05	bq150h2 #2
105	150.00	20.52	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	1.16E-05	bq150h2 #3
106	150.00	71.64	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	2.96E-05	bq150h2 #4
107	150.00	171.75	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	3.99E-05	bq150h2 #5
108	150.00	3.48	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	2.51E-04	bq150h2 #6
109	150.00	8.45	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	1.00E-05	bq150h2 #7
110	150.00	20.52	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	5.02E-06	bq150h2 #8
111	150.00	71.64	7259.00	8019.00	7639.00	99	0.71	1.49	1.00	1.00	1.00	2.51E-05	bq150h2 #9
112	150.00	171.75	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	4.33E-05	bq150h2 #10
113	150.00	3.48	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	2.74E-04	bq150h2 #11
114	150.00	8.45	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	3.42E-05	bq150h2 #12
115	150.00	20.52	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	1.55E-05	bq150h2 #13
116	150.00	71.64	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	5.83E-06	bq150h2 #14
117	150.00	171.75	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	3.07E-05	bq150h2 #15
118	150.00	3.48	72.00	80.00	76.00	100	0.71	1.49	1.00	1.00	1.00	3.91E-03	bq150l2 #1
119	150.00	8.45	72.00	80.00	76.00	100	0.71	1.49	1.00	1.00	1.00	2.53E-03	bq150l2 #2
120	150.00	20.52	72.00	80.00	76.00	47	0.71	1.49	1.00	1.00	1.00	2.08E-01	bq150l2 #3

Data set: BQ 81-288 ApiezonC+5%Bardhal(VacKote) ....continued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
121	150.00	71.64	617.00	682.00	649.50	100	0.71	1.49	1.00	1.00	1.00	1.01E-04	bq150l2 #19
122	150.00	171.75	617.00	682.00	649.50	100	0.71	1.49	1.00	1.00	1.00	2.16E-04	bq150l2 #20
123	150.00	3.48	1197.00	1323.00	1260.00	100	0.71	1.49	1.00	1.00	1.00	1.82E-04	bq150l2 #21
124	150.00	8.45	1197.00	1323.00	1260.00	100	0.71	1.49	1.00	1.00	1.00	5.14E-05	bq150l2 #22
125	150.00	20.52	1197.00	1323.00	1260.00	100	0.71	1.49	1.00	1.00	1.00	6.26E-06	bq150l2 #23
126	150.00	71.64	1197.00	1323.00	1260.00	55	0.71	1.49	1.00	1.00	1.00	1.61E-02	bq150l2 #24
127	200.00	3.48	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	2.84E-04	bq200h2 #1
128	200.00	8.45	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	1.95E-05	bq200h2 #2
129	200.00	20.52	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	5.93E-06	bq200h2 #3
130	200.00	71.64	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	2.99E-05	bq200h2 #4
131	200.00	171.75	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	1.01E-04	bq200h2 #5
132	200.00	3.48	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	2.60E-03	bq200h2 #6
133	200.00	8.45	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	2.84E-05	bq200h2 #7
134	200.00	20.52	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	2.67E-04	bq200h2 #8
135	200.00	71.64	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	5.51E-06	bq200h2 #9
136	200.00	171.75	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	1.02E-05	bq200h2 #10
137	200.00	3.48	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	1.24E-04	bq200h2 #11
138	200.00	8.45	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	5.57E-05	bq200h2 #12
139	200.00	20.52	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	1.60E-05	bq200h2 #13
140	200.00	71.64	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	2.71E-05	bq200h2 #14
141	200.00	171.75	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	1.14E-05	bq200h2 #15
142	200.00	3.48	72.00	80.00	76.00	100	0.71	1.49	1.00	1.00	1.00	4.92E-03	bq200l2 #1
143	200.00	8.45	72.00	80.00	76.00	100	0.71	1.49	1.00	1.00	1.00	1.79E-02	bq200l2 #2
144	200.00	20.52	72.00	80.00	76.00	100	0.71	1.49	1.00	1.00	1.00	3.61E-02	bq200l2 #3
145	200.00	71.64	72.00	80.00	76.00	100	0.71	1.49	1.00	1.00	1.00	2.88E-02	bq200l2 #4
146	200.00	171.75	72.00	80.00	76.00	100	0.71	1.49	1.00	1.00	1.00	7.68E-03	bq200l2 #5
147	200.00	3.48	144.00	160.00	152.00	100	0.71	1.49	1.00	1.00	1.00	5.15E-04	bq200l2 #6
148	200.00	8.45	144.00	160.00	152.00	100	0.71	1.49	1.00	1.00	1.00	3.99E-03	bq200l2 #7
149	200.00	20.52	144.00	160.00	152.00	100	0.71	1.49	1.00	1.00	1.00	1.75E-03	bq200l2 #8
150	200.00	71.64	144.00	160.00	152.00	100	0.71	1.49	1.00	1.00	1.00	6.20E-03	bq200l2 #9
151	200.00	171.75	144.00	160.00	152.00	100	0.71	1.49	1.00	1.00	1.00	5.65E-03	bq200l2 #10
152	200.00	3.48	326.00	360.00	343.00	100	0.71	1.49	1.00	1.00	1.00	1.21E-04	bq200l2 #11
153	200.00	8.45	326.00	360.00	343.00	100	0.71	1.49	1.00	1.00	1.00	3.95E-04	bq200l2 #12
154	200.00	20.52	326.00	360.00	343.00	100	0.71	1.49	1.00	1.00	1.00	5.06E-05	bq200l2 #13
155	200.00	71.64	326.00	360.00	343.00	100	0.71	1.49	1.00	1.00	1.00	3.86E-04	bq200l2 #14
156	200.00	171.75	326.00	360.00	343.00	100	0.71	1.49	1.00	1.00	1.00	1.15E-04	bq200l2 #15
157	200.00	3.48	617.00	682.00	649.50	100	0.71	1.49	1.00	1.00	1.00	7.16E-05	bq200l2 #16
158	200.00	8.45	617.00	682.00	649.50	100	0.71	1.49	1.00	1.00	1.00	1.24E-05	bq200l2 #17
159	200.00	20.52	617.00	682.00	649.50	100	0.71	1.49	1.00	1.00	1.00	8.22E-06	bq200l2 #18
160	200.00	71.64	617.00	682.00	649.50	100	0.71	1.49	1.00	1.00	1.00	1.08E-04	bq200l2 #19
161	200.00	171.75	617.00	682.00	649.50	100	0.71	1.49	1.00	1.00	1.00	1.22E-05	bq200l2 #20
162	200.00	3.48	1197.00	1323.00	1260.00	100	0.71	1.49	1.00	1.00	1.00	9.96E-05	bq200l2 #21
163	200.00	8.45	1197.00	1323.00	1260.00	100	0.71	1.49	1.00	1.00	1.00	2.16E-05	bq200l2 #22
164	200.00	20.52	1197.00	1323.00	1260.00	100	0.71	1.49	1.00	1.00	1.00	2.37E-06	bq200l2 #23
165	200.00	71.64	1197.00	1323.00	1260.00	100	0.71	1.49	1.00	1.00	1.00	9.02E-05	bq200l2 #24
166	200.00	171.75	1197.00	1323.00	1260.00	100	0.71	1.49	1.00	1.00	1.00	4.15E-05	bq200l2 #25
167	200.00	3.48	2431.00	2687.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	3.33E-04	bq200l2 #26
168	200.00	8.45	2431.00	2687.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	1.63E-04	bq200l2 #27
169	200.00	20.52	2431.00	2687.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	1.03E-05	bq200l2 #28
170	200.00	71.64	2431.00	2687.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	6.04E-07	bq200l2 #29
171	200.00	171.75	2431.00	2687.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	1.54E-05	bq200l2 #30
172	250.00	3.48	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	1.05E-04	bq250h2 #1
173	250.00	8.45	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	3.04E-05	bq250h2 #2
174	250.00	20.52	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	3.84E-06	bq250h2 #3
175	250.00	71.64	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	1.68E-05	bq250h2 #4
176	250.00	171.75	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	1.96E-05	bq250h2 #5
177	250.00	3.48	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	4.48E-04	bq250h2 #6
178	250.00	8.45	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	8.19E-04	bq250h2 #7
179	250.00	20.52	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	8.06E-06	bq250h2 #8
180	250.00	71.64	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	2.55E-06	bq250h2 #9
181	250.00	171.75	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	1.44E-05	bq250h2 #10
182	250.00	3.48	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	3.48E-04	bq250h2 #11
183	250.00	8.45	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	2.68E-05	bq250h2 #12
184	250.00	20.52	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	3.56E-05	bq250h2 #13
185	250.00	71.64	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	4.09E-06	bq250h2 #14
186	250.00	171.75	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	9.61E-06	bq250h2 #15
187	250.00	3.48	72.00	80.00	76.00	100	0.71	1.49	1.00	1.00	1.00	5.22E-03	bq250l2 #1
188	250.00	8.45	72.00	80.00	76.00	100	0.71	1.49	1.00	1.00	1.00	1.73E-02	bq250l2 #2
189	250.00	20.52	72.00	80.00	76.00	100	0.71	1.49	1.00	1.00	1.00	3.62E-02	bq250l2 #3
190	250.00	71.64	72.00	80.00	76.00	100	0.71	1.49	1.00	1.00	1.00	9.41E-03	bq250l2 #4

Data set: BQ 81-288 ApiezonC+5%Bardhal(VacKote) ....continued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
191	250.00	171.75	72.00	80.00	76.00	100	0.71	1.49	1.00	1.00	1.00	1.54E-01	bq250l2 #5
192	250.00	3.48	144.00	160.00	152.00	100	0.71	1.49	1.00	1.00	1.00	1.09E-02	bq250l2 #6
193	250.00	8.45	144.00	160.00	152.00	100	0.71	1.49	1.00	1.00	1.00	1.05E-03	bq250l2 #7
194	250.00	20.52	144.00	160.00	152.00	100	0.71	1.49	1.00	1.00	1.00	5.03E-03	bq250l2 #8
195	250.00	71.64	144.00	160.00	152.00	100	0.71	1.49	1.00	1.00	1.00	1.11E-02	bq250l2 #9
196	250.00	171.75	144.00	160.00	152.00	100	0.71	1.49	1.00	1.00	1.00	2.17E-03	bq250l2 #10
197	250.00	3.48	326.00	360.00	343.00	100	0.71	1.49	1.00	1.00	1.00	5.58E-03	bq250l2 #11
198	250.00	8.45	326.00	360.00	343.00	100	0.71	1.49	1.00	1.00	1.00	5.05E-05	bq250l2 #12
199	250.00	20.52	326.00	360.00	343.00	100	0.71	1.49	1.00	1.00	1.00	6.92E-05	bq250l2 #13
200	250.00	71.64	326.00	360.00	343.00	100	0.71	1.49	1.00	1.00	1.00	5.43E-04	bq250l2 #14
201	250.00	171.75	326.00	360.00	343.00	100	0.71	1.49	1.00	1.00	1.00	3.64E-04	bq250l2 #15
202	250.00	3.48	617.00	682.00	649.50	100	0.71	1.49	1.00	1.00	1.00	1.33E-04	bq250l2 #16
203	250.00	8.45	617.00	682.00	649.50	100	0.71	1.49	1.00	1.00	1.00	3.47E-05	bq250l2 #17
204	250.00	20.52	617.00	682.00	649.50	100	0.71	1.49	1.00	1.00	1.00	5.48E-06	bq250l2 #18
205	250.00	71.64	617.00	682.00	649.50	100	0.71	1.49	1.00	1.00	1.00	1.50E-05	bq250l2 #19
206	250.00	171.75	617.00	682.00	649.50	100	0.71	1.49	1.00	1.00	1.00	1.98E-04	bq250l2 #20
207	250.00	3.48	1197.00	1323.00	1260.00	100	0.71	1.49	1.00	1.00	1.00	6.66E-05	bq250l2 #21
208	250.00	8.45	1197.00	1323.00	1260.00	100	0.71	1.49	1.00	1.00	1.00	1.86E-05	bq250l2 #22
209	250.00	20.52	1197.00	1323.00	1260.00	100	0.71	1.49	1.00	1.00	1.00	4.91E-06	bq250l2 #23
210	250.00	71.64	1197.00	1323.00	1260.00	100	0.71	1.49	1.00	1.00	1.00	9.29E-06	bq250l2 #24
211	250.00	171.75	1197.00	1323.00	1260.00	100	0.71	1.49	1.00	1.00	1.00	3.19E-05	bq250l2 #25
212	250.00	3.48	2431.00	2687.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	2.10E-04	bq250l2 #26
213	250.00	8.45	2431.00	2687.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	6.56E-05	bq250l2 #27
214	250.00	20.52	2431.00	2687.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	4.17E-06	bq250l2 #28
215	250.00	71.64	2431.00	2687.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	3.42E-06	bq250l2 #29
216	250.00	171.75	2431.00	2687.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	2.27E-05	bq250l2 #30
217	300.00	3.48	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	3.69E-05	bq300h2 #1
218	300.00	8.45	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	2.27E-05	bq300h2 #2
219	300.00	20.52	4830.00	5330.00	5080.00	76	0.71	1.49	1.00	1.00	1.00	4.84E-06	bq300h2 #3
220	300.00	71.64	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	1.92E-05	bq300h2 #4
221	300.00	171.75	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	7.34E-06	bq300h2 #5
222	300.00	3.48	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	1.95E-04	bq300h2 #6
223	300.00	8.45	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	5.55E-05	bq300h2 #7
224	300.00	20.52	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	1.21E-05	bq300h2 #8
225	300.00	71.64	7259.00	8019.00	7639.00	79	0.71	1.49	1.00	1.00	1.00	9.47E-04	bq300h2 #9
226	300.00	3.48	72.00	80.00	76.00	100	0.71	1.49	1.00	1.00	1.00	6.63E-03	bq300l2 #1
227	300.00	8.45	72.00	80.00	76.00	100	0.71	1.49	1.00	1.00	1.00	3.06E-02	bq300l2 #2
228	300.00	20.52	72.00	80.00	76.00	100	0.71	1.49	1.00	1.00	1.00	6.77E-02	bq300l2 #3
229	300.00	71.64	72.00	80.00	76.00	100	0.71	1.49	1.00	1.00	1.00	1.96E-02	bq300l2 #4
230	300.00	171.75	72.00	80.00	76.00	100	0.71	1.49	1.00	1.00	1.00	1.11E-02	bq300l2 #5
231	300.00	3.48	144.00	160.00	152.00	100	0.71	1.49	1.00	1.00	1.00	8.71E-04	bq300l2 #6
232	300.00	8.45	144.00	160.00	152.00	100	0.71	1.49	1.00	1.00	1.00	6.95E-03	bq300l2 #7
233	300.00	20.52	144.00	160.00	152.00	100	0.71	1.49	1.00	1.00	1.00	4.38E-03	bq300l2 #8
234	300.00	71.64	144.00	160.00	152.00	100	0.71	1.49	1.00	1.00	1.00	8.53E-03	bq300l2 #9
235	300.00	171.75	144.00	160.00	152.00	100	0.71	1.49	1.00	1.00	1.00	1.13E-02	bq300l2 #10
236	300.00	3.48	326.00	360.00	343.00	100	0.71	1.49	1.00	1.00	1.00	2.88E-03	bq300l2 #11
237	300.00	8.45	326.00	360.00	343.00	100	0.71	1.49	1.00	1.00	1.00	3.48E-04	bq300l2 #12
238	300.00	20.52	326.00	360.00	343.00	100	0.71	1.49	1.00	1.00	1.00	3.56E-04	bq300l2 #13
239	300.00	71.64	326.00	360.00	343.00	100	0.71	1.49	1.00	1.00	1.00	7.12E-04	bq300l2 #14
240	300.00	171.75	326.00	360.00	343.00	100	0.71	1.49	1.00	1.00	1.00	1.30E-04	bq300l2 #15
241	300.00	3.48	617.00	682.00	649.50	100	0.71	1.49	1.00	1.00	1.00	8.50E-05	bq300l2 #16
242	300.00	8.45	617.00	682.00	649.50	100	0.71	1.49	1.00	1.00	1.00	2.68E-05	bq300l2 #17
243	300.00	20.52	617.00	682.00	649.50	100	0.71	1.49	1.00	1.00	1.00	1.39E-05	bq300l2 #18
244	300.00	71.64	617.00	682.00	649.50	100	0.71	1.49	1.00	1.00	1.00	6.19E-05	bq300l2 #19
245	300.00	171.75	617.00	682.00	649.50	100	0.71	1.49	1.00	1.00	1.00	7.15E-05	bq300l2 #20
246	300.00	3.48	1197.00	1323.00	1260.00	100	0.71	1.49	1.00	1.00	1.00	9.08E-05	bq300l2 #21
247	300.00	8.45	1197.00	1323.00	1260.00	100	0.71	1.49	1.00	1.00	1.00	4.12E-05	bq300l2 #22
248	300.00	20.52	1197.00	1323.00	1260.00	100	0.71	1.49	1.00	1.00	1.00	3.79E-06	bq300l2 #23
249	300.00	71.64	1197.00	1323.00	1260.00	79	0.71	1.49	1.00	1.00	1.00	2.12E-03	bq300l2 #24

Summary of Select Data Files

Filename	Temp	RollRpm	DataCurve #		
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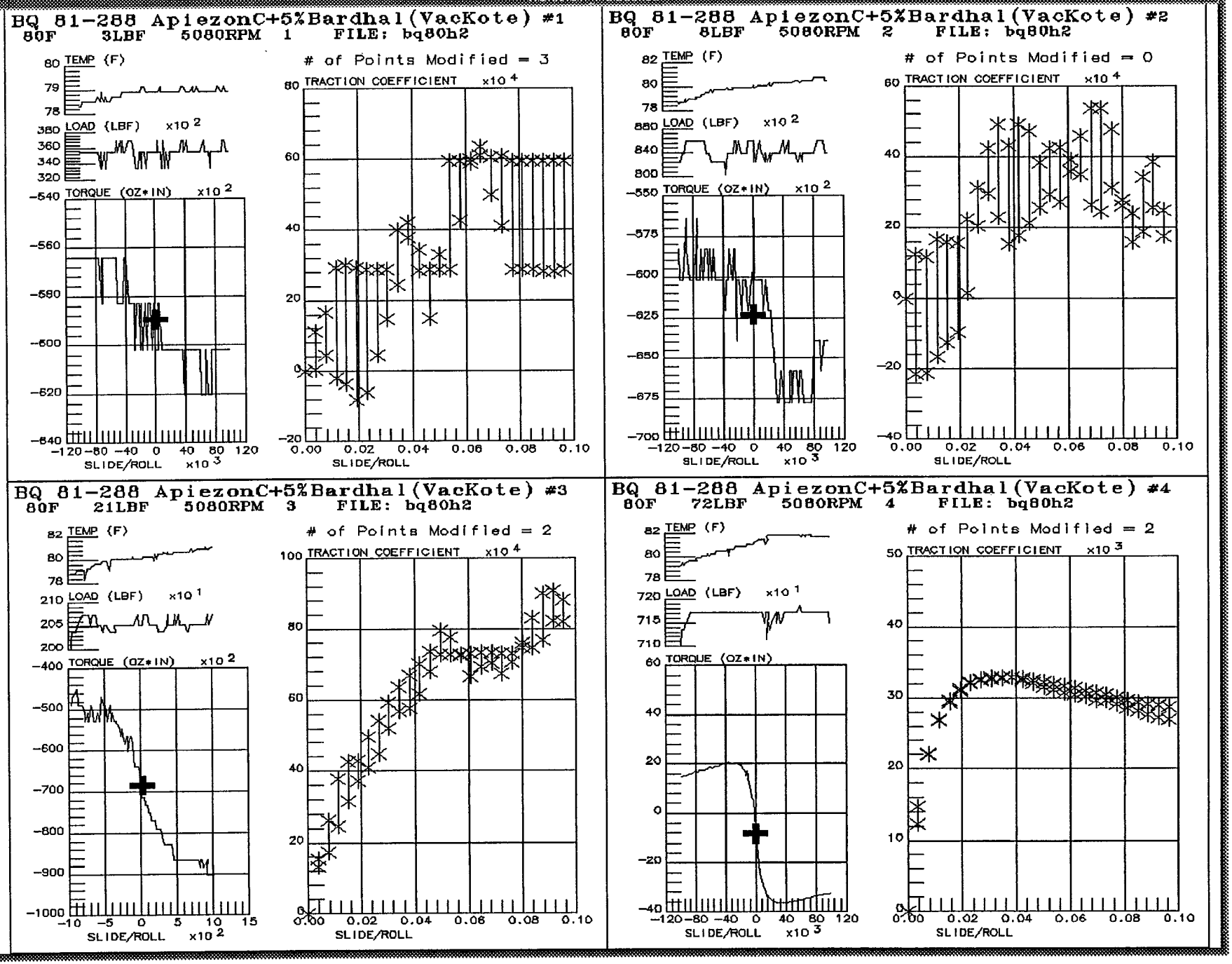
bq2.dat	80.00	1260.00	38	39	40
bq3.dat	80.00	5080.00	3	4	5
bq4.dat	80.00	7639.00	8	9	10
bq5.dat	80.00	10198.00	13	14	15
bq6.dat	100.00	650.00	92	93	94
bq7.dat	100.00	1260.00	97	98	99
bq8.dat	100.00	5080.00	63	64	65
bq9.dat	100.00	7639.00	68	69	70
bq10.dat	100.00	10198.00	73	74	75
bq11.dat	150.00	650.00	121	122	
bq12.dat	150.00	1260.00	125	126	
bq13.dat	150.00	5080.00	105	106	107
bq14.dat	150.00	7639.00	110	111	112
bq15.dat	150.00	10198.00	115	116	117
bq16.dat	200.00	650.00	159	160	161
bq17.dat	200.00	1260.00	164	165	166
bq18.dat	200.00	5080.00	129	130	131
bq19.dat	200.00	7639.00	134	135	136
bq20.dat	200.00	10198.00	139	140	141
bq21.dat	250.00	650.00	204	205	206
bq22.dat	250.00	1260.00	209	210	211
bq23.dat	250.00	5080.00	174	175	176
bq24.dat	250.00	7639.00	179	180	181
bq25.dat	250.00	10198.00	184	185	186
bq26.dat	300.00	650.00	243	244	245
bq27.dat	300.00	1260.00	248	249	
bq28.dat	300.00	5080.00	219	220	221
bq29.dat	300.00	7639.00	224	225	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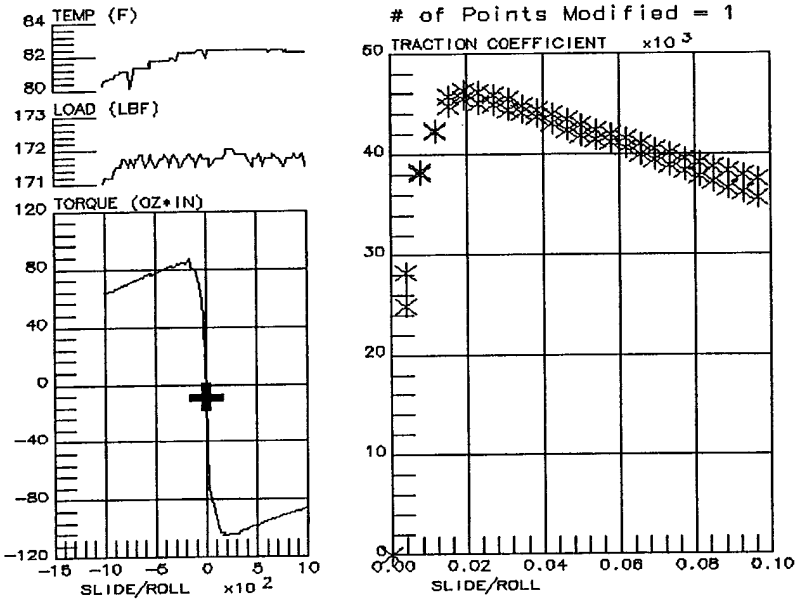
# of Points Modified = 3
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #2
80F 8LBF 5080RPM 2 FILE: bq80h2
# of Points Modified = 0
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #3
80F 21LBF 5080RPM 3 FILE: bq80h2
# of Points Modified = 2
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #4
80F 72LBF 5080RPM 4 FILE: bq80h2
# of Points Modified = 2
TEMP (F)
LOAD (LBF)
TORQUE (OZ*IN)
TRACTION COEFFICIENT
SLIDE/ROLL

BQ 81-288 ApiezonC+5%Bardhal(VacKote) #5
80F 172LBF 5080RPM 5 FILE: bq80h2



BQ 81-288 ApiezonC+5%Bardhal(VacKote) #6
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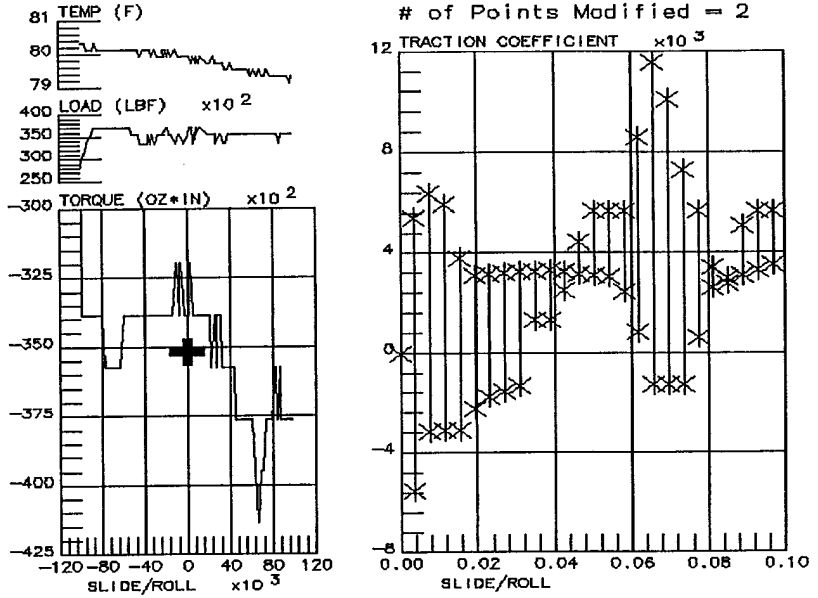

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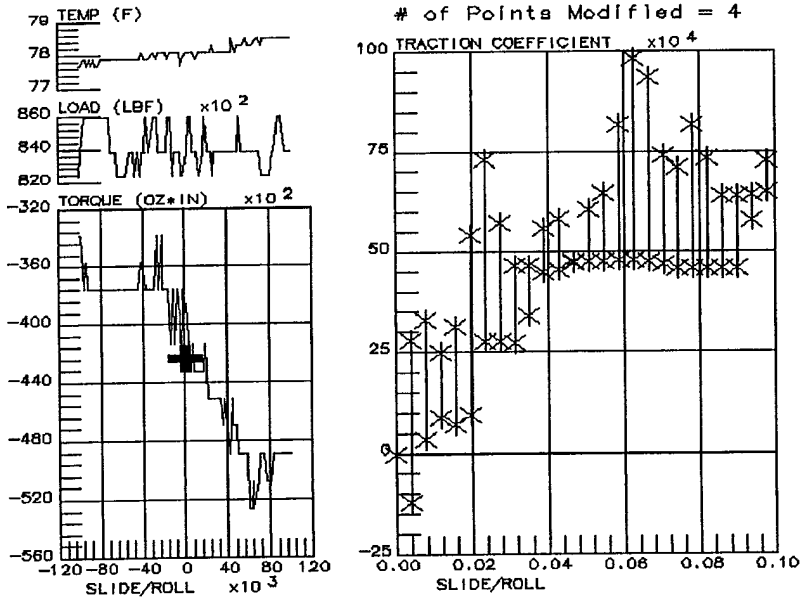

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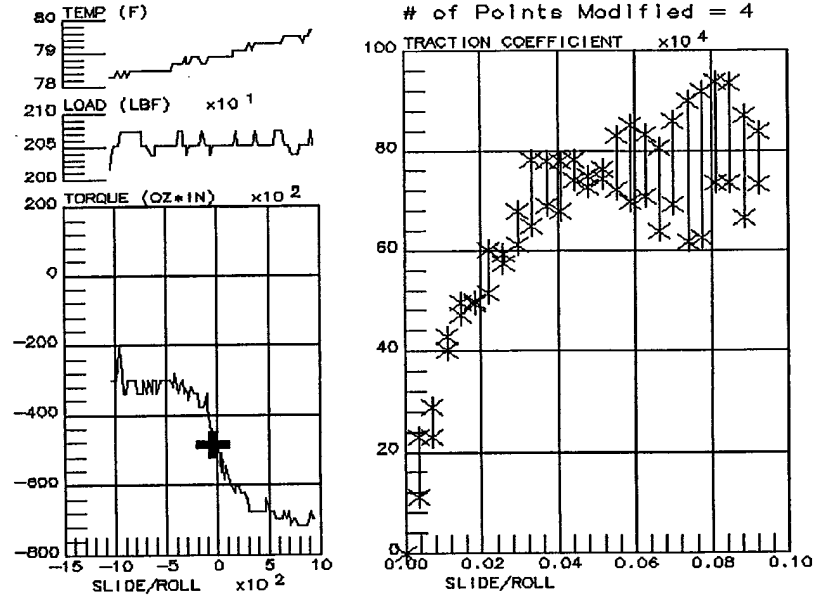

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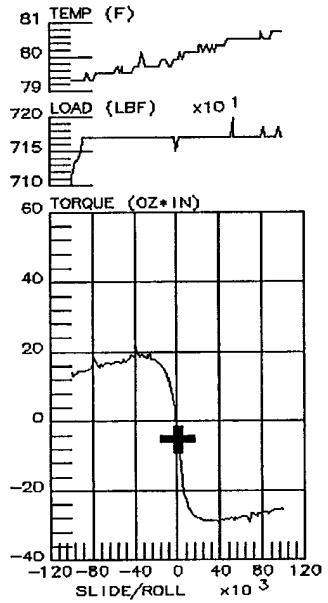

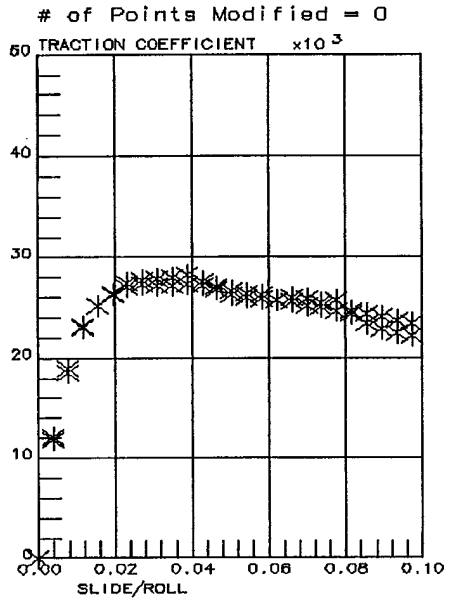

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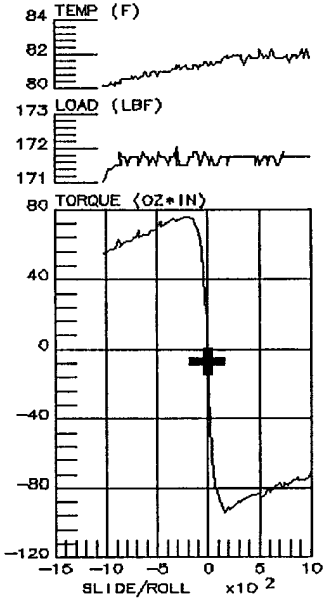
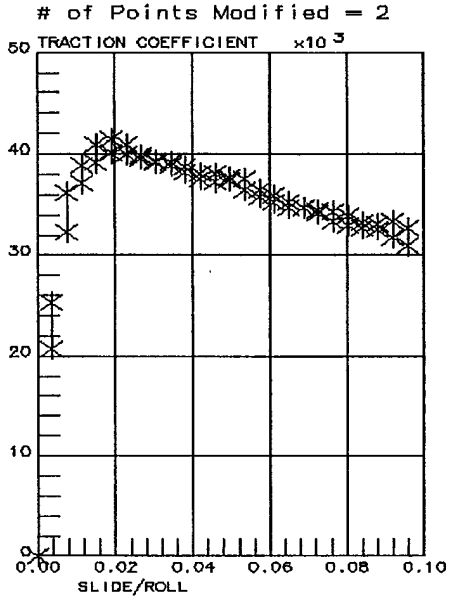
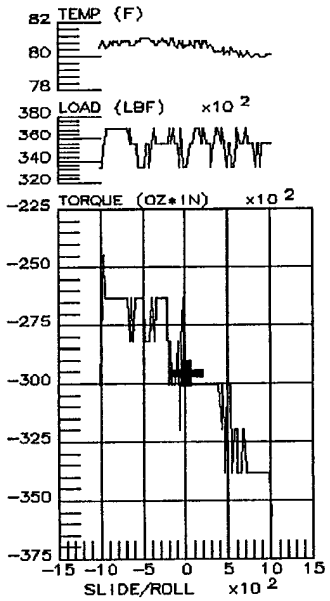
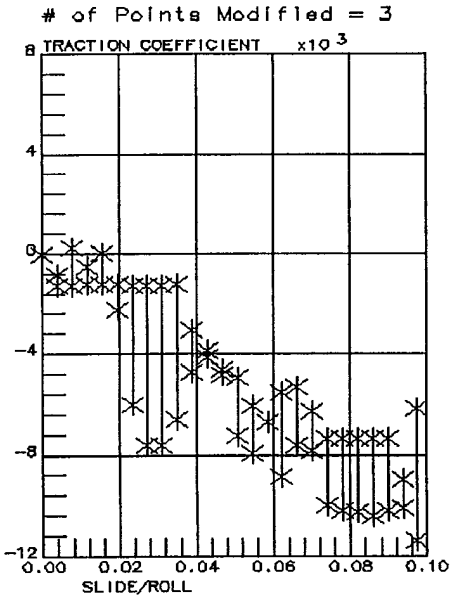


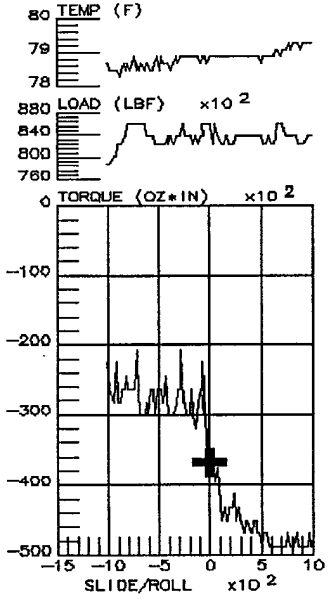


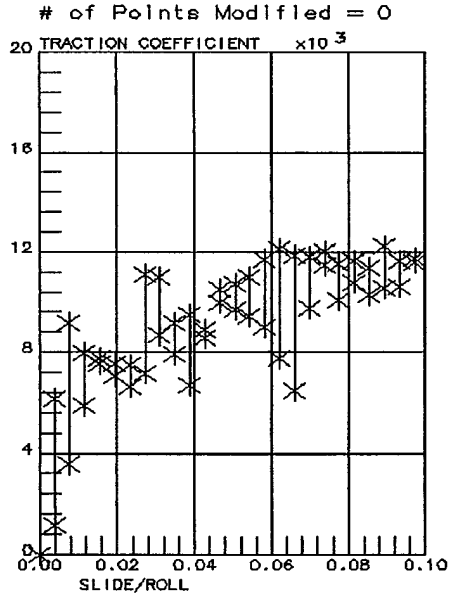
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #11
80F 3LBF 10198RPM 11 FILE: bq80h2



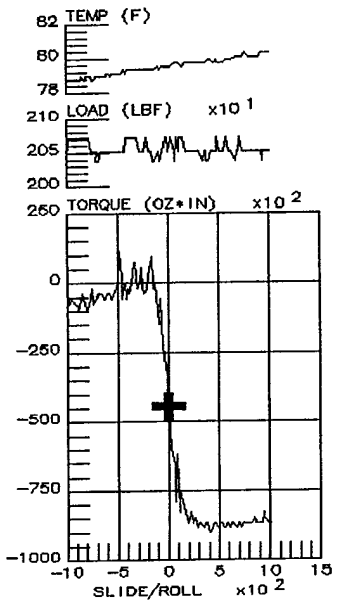


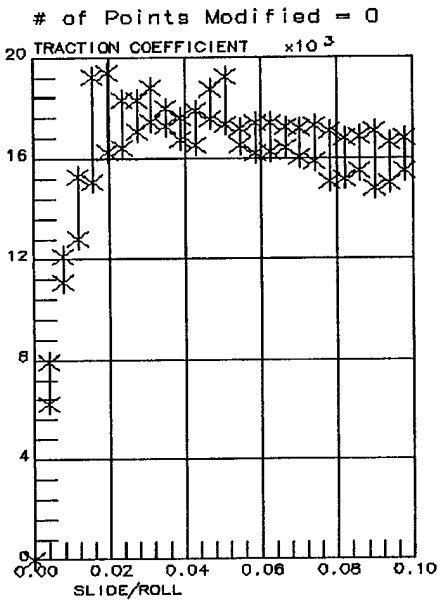
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #12
80F 8LBF 10198RPM 12 FILE: bq80h2



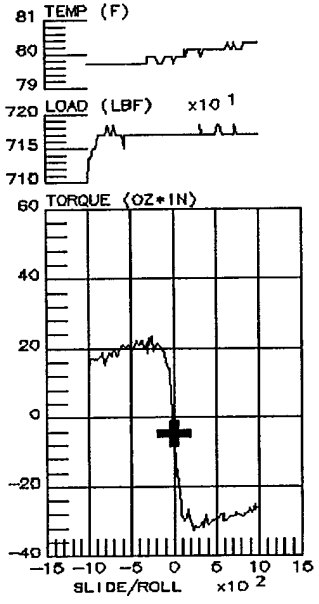


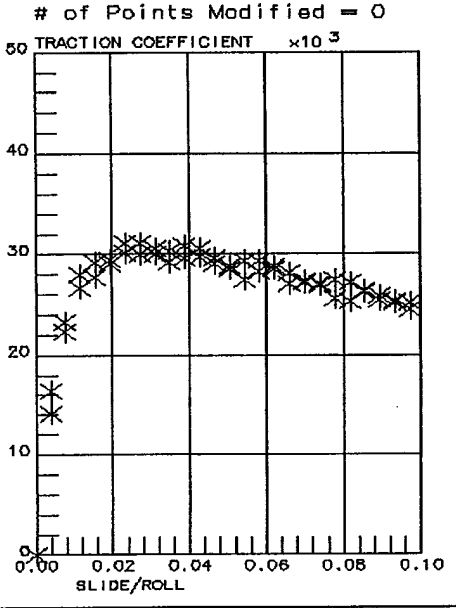
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #13
80F 21LBF 10198RPM 13 FILE: bq80h2



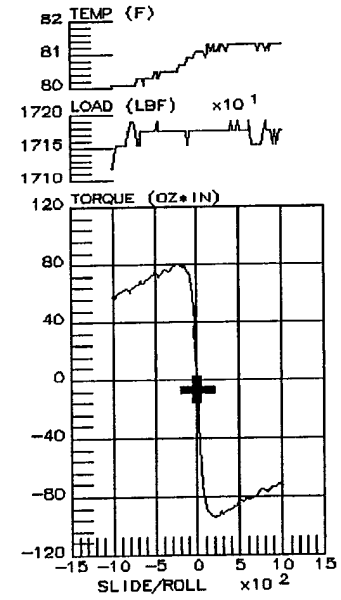


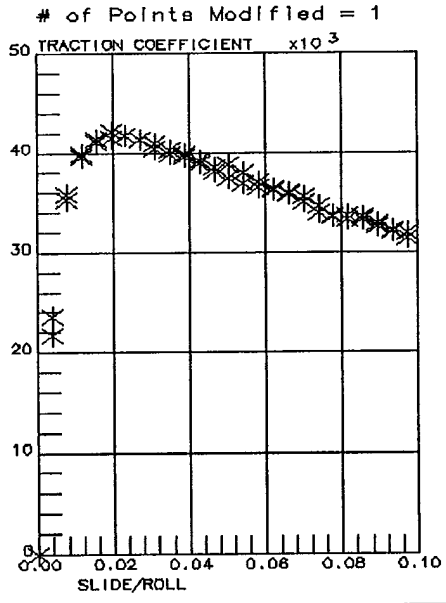
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #14
80F 72LBF 10198RPM 14 FILE: bq80h2



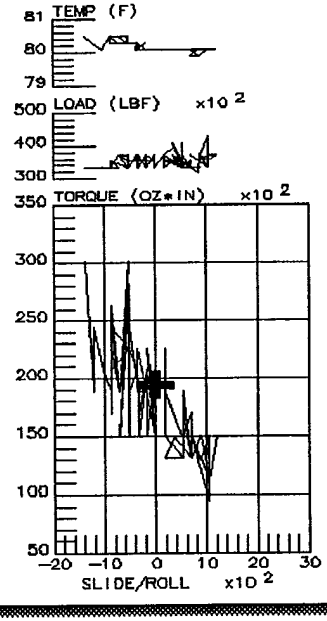


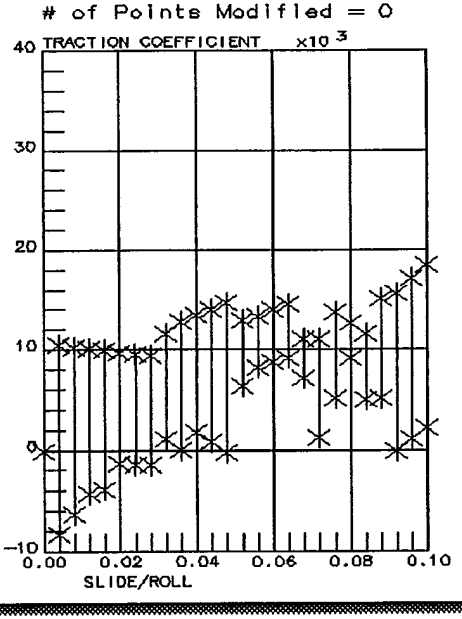
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #15
80F 172LBF 10198RPM 15 FILE: bq80h2



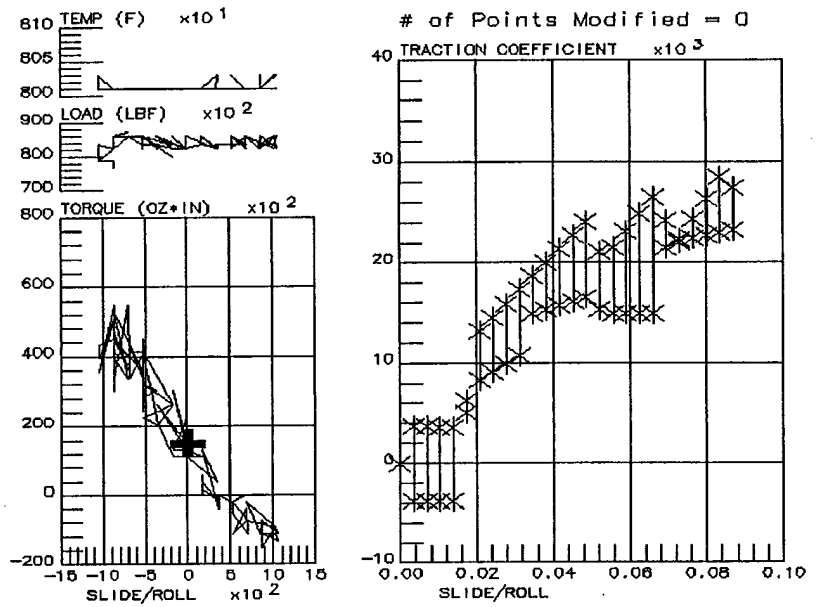


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #16
80F 3LBF 76RPM 1 FILE: bq8012





BQ 81-288 ApiezonC+5%Bardhal(VacKote) #17
80F 8LBF 76RPM 2 FILE: bq8012



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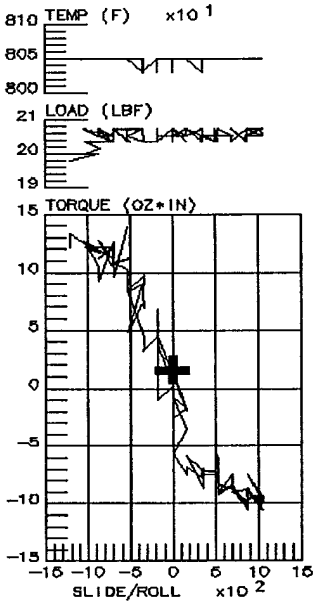
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #18
80F 21LBF 76RPM 3 FILE: bq8012



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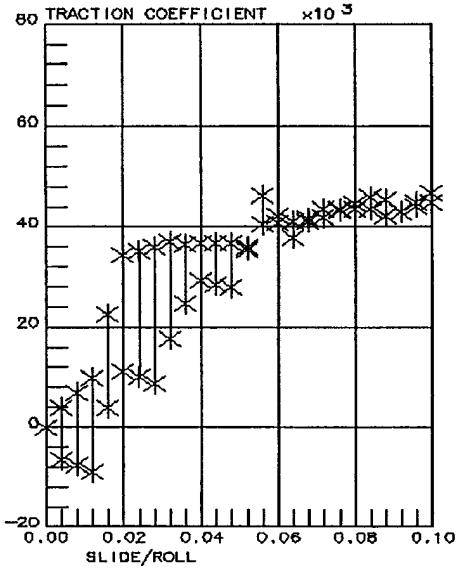
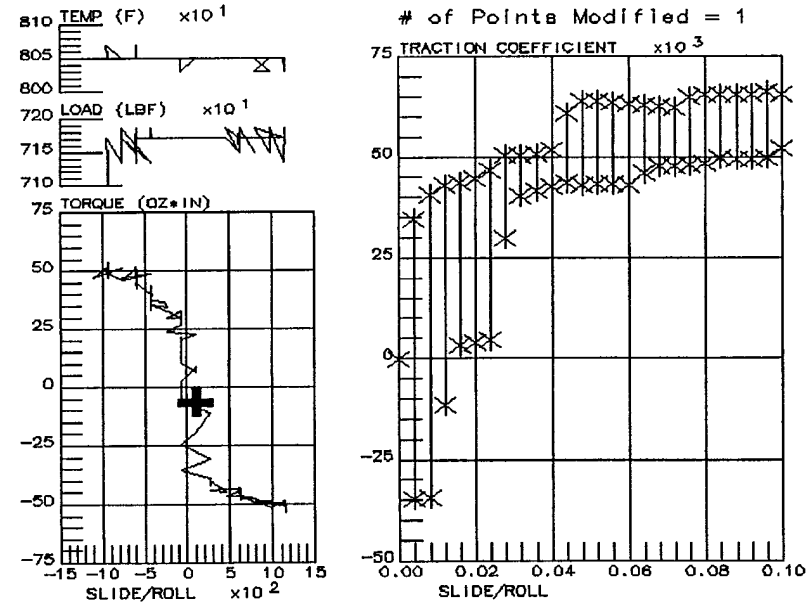


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #19
80F 72LBF 76RPM 4 FILE: bq8012



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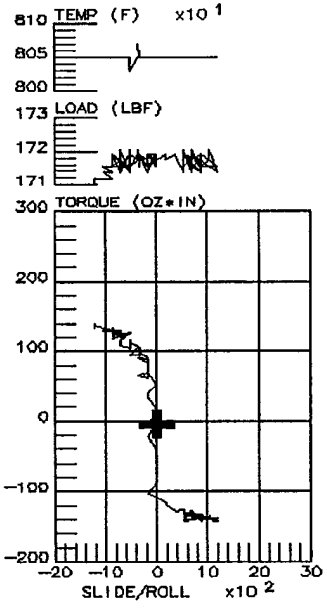
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #20
80F 172LBF 76RPM 5 FILE: bq8012



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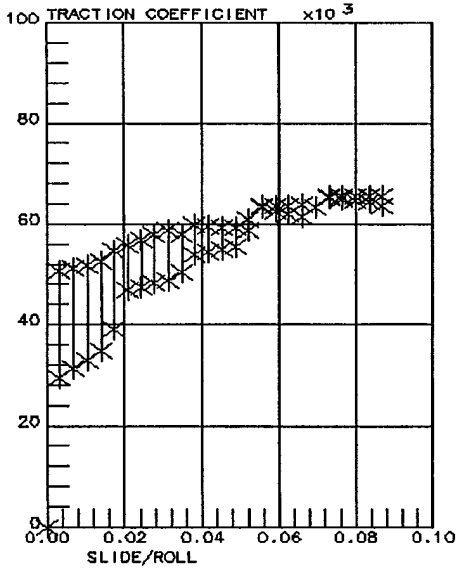
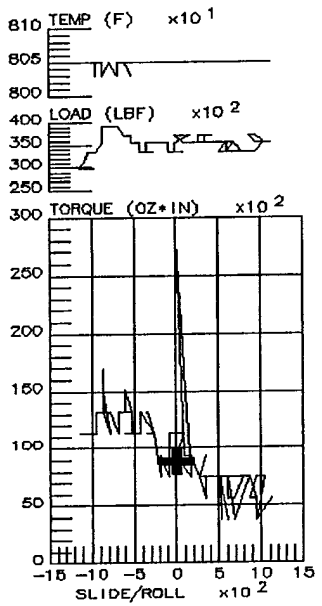


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #21
80F 3LBF 152RPM 6 FILE: bq8012



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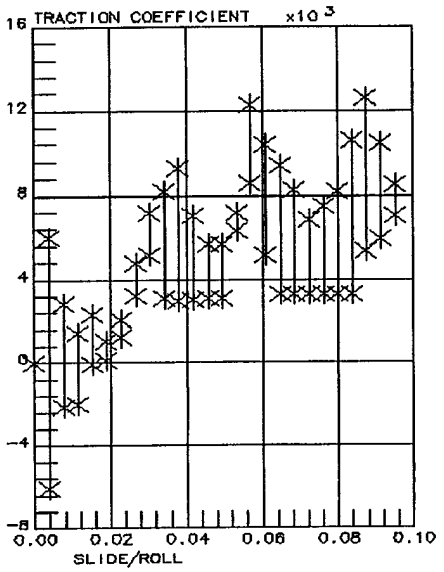
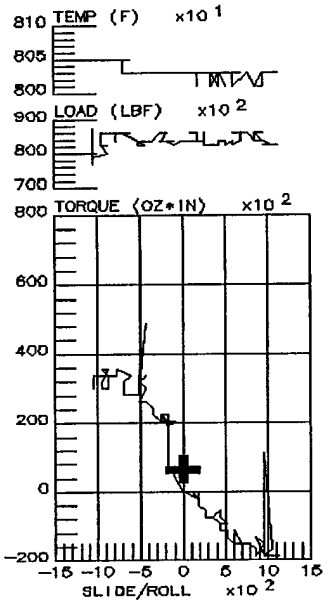


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #22
80F 8LBF 152RPM 7 FILE: bq8012



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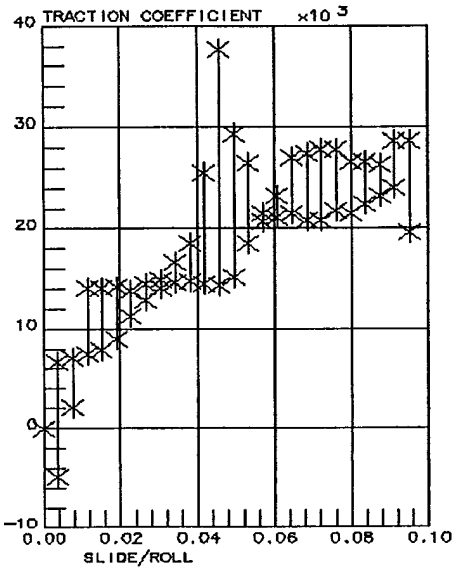
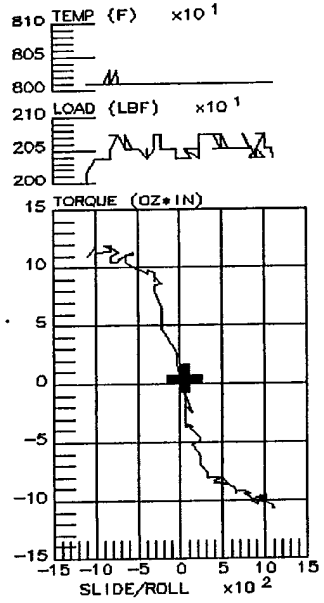


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #23
80F 21LBF 152RPM 8 FILE: bq8012



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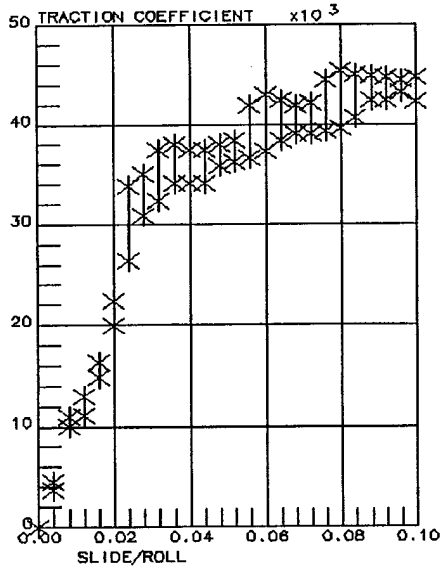
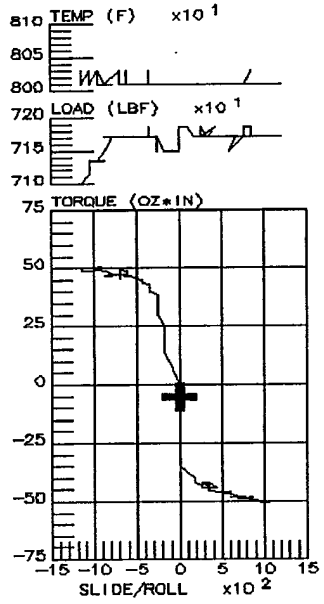


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #24
80F 72LBF 152RPM 9 FILE: bq8012



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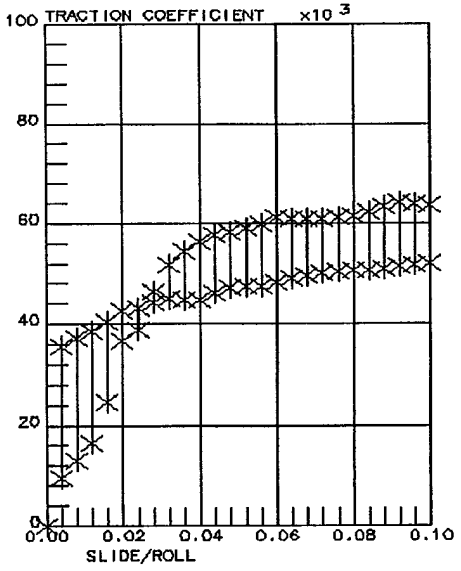
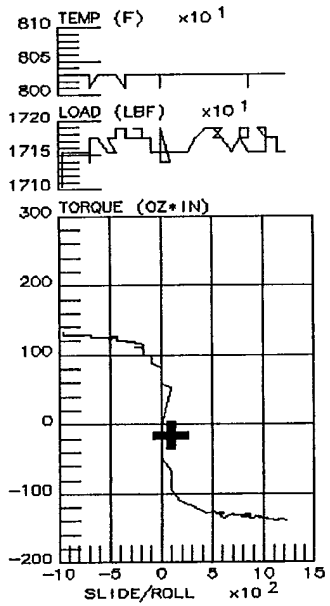
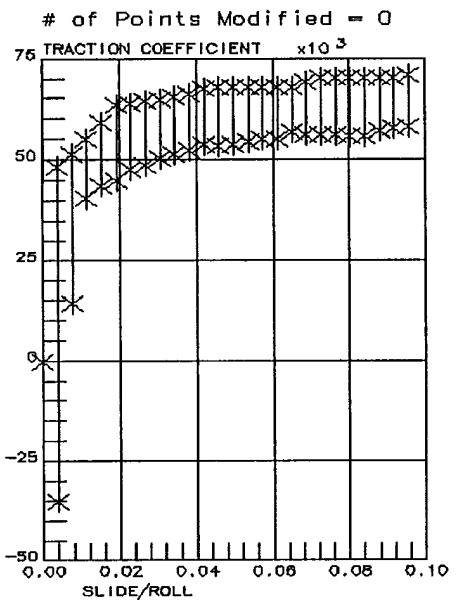
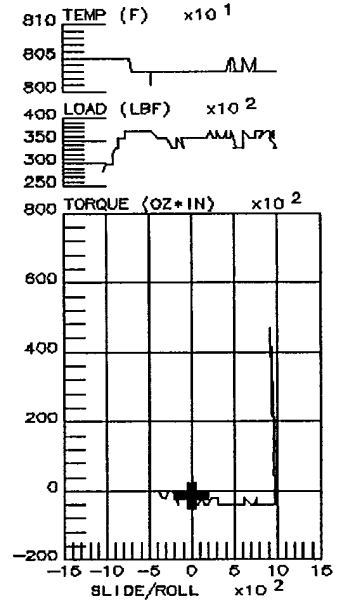


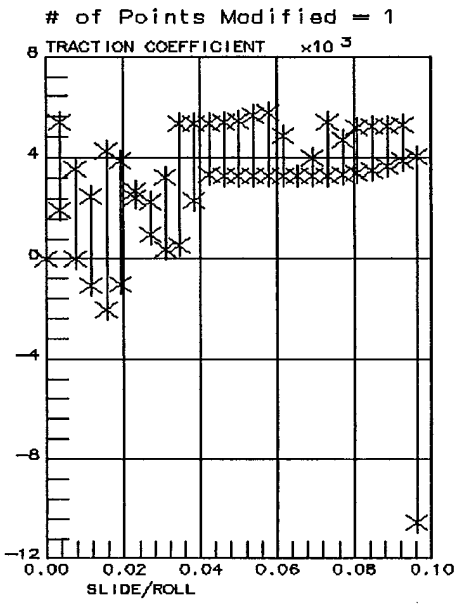
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #25
80F 172LBF 152RPM 10 FILE: bq8012



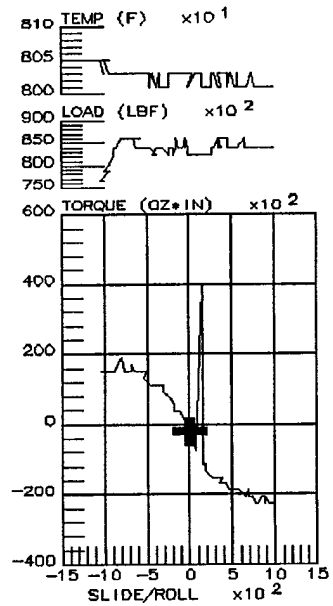


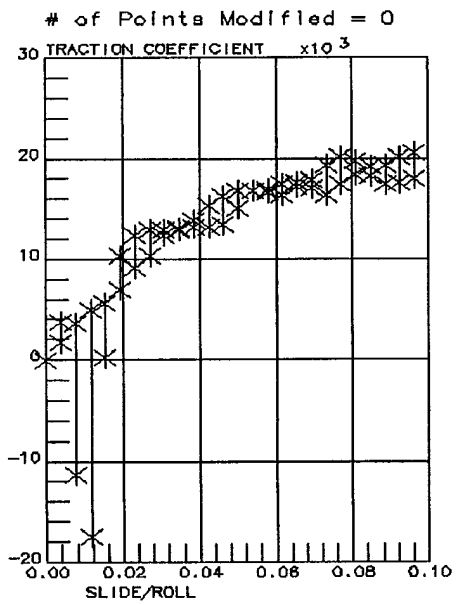
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #26
80F 3LBF 343RPM 11 FILE: bq8012



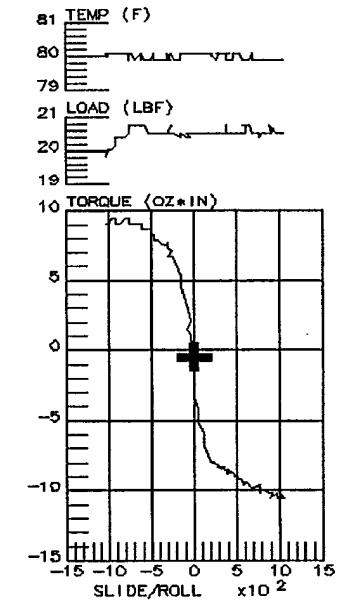


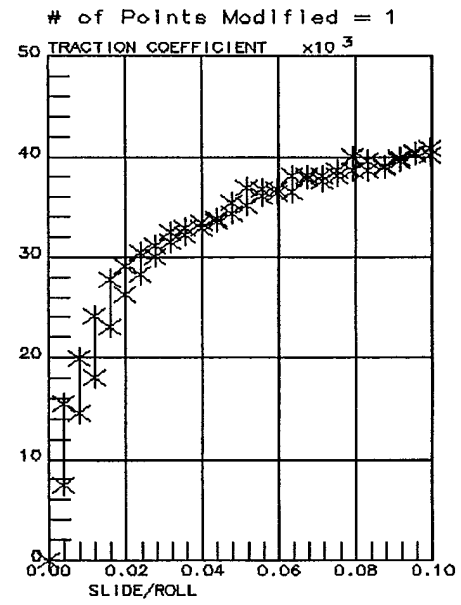
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #27
80F 8LBF 343RPM 12 FILE: bq8012



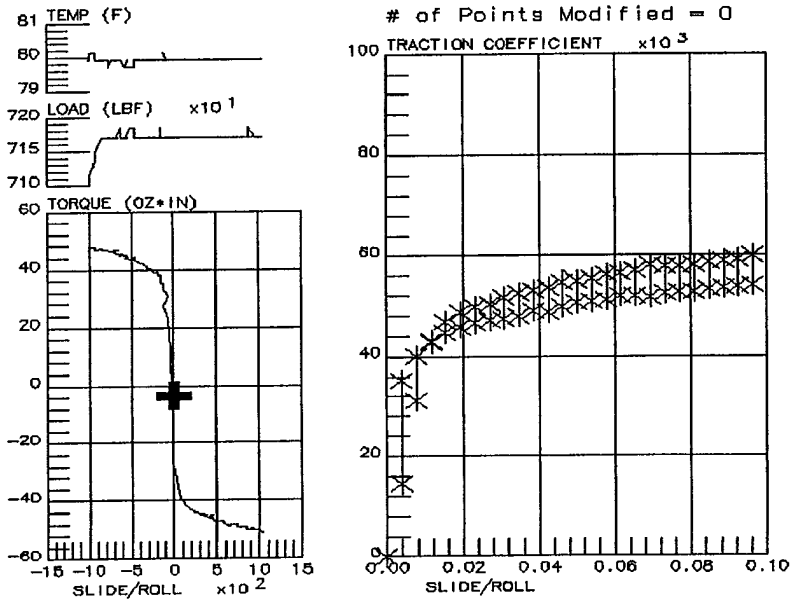


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #28
80F 21LBF 343RPM 13 FILE: bq8012

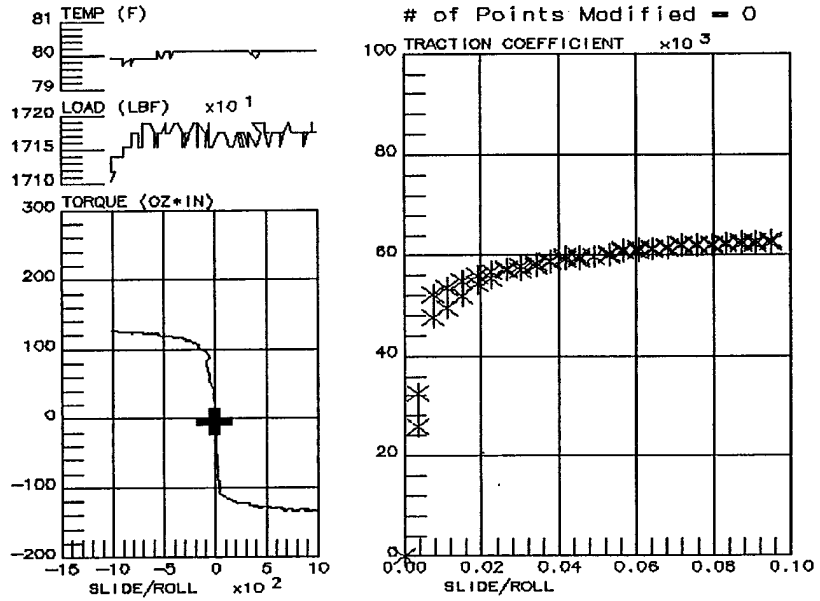




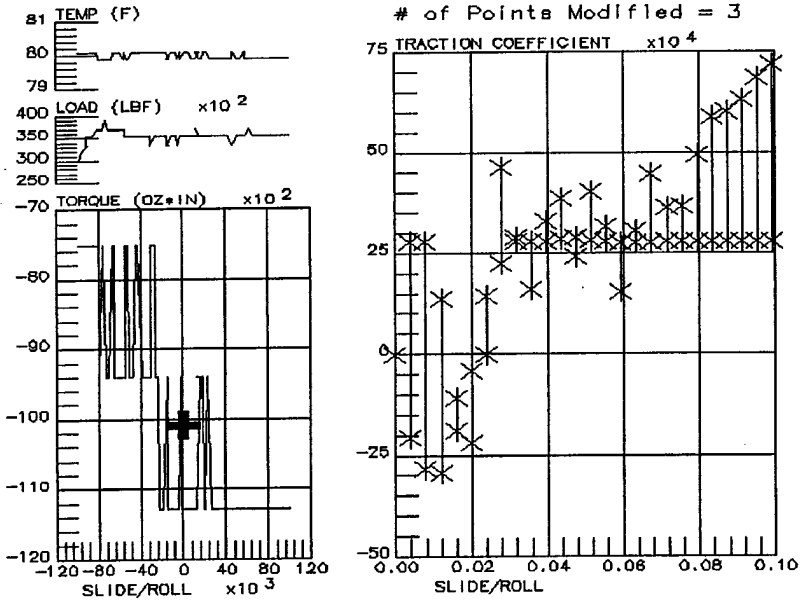
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #29
80F 72LBF 343RPM 14 FILE: bq8012



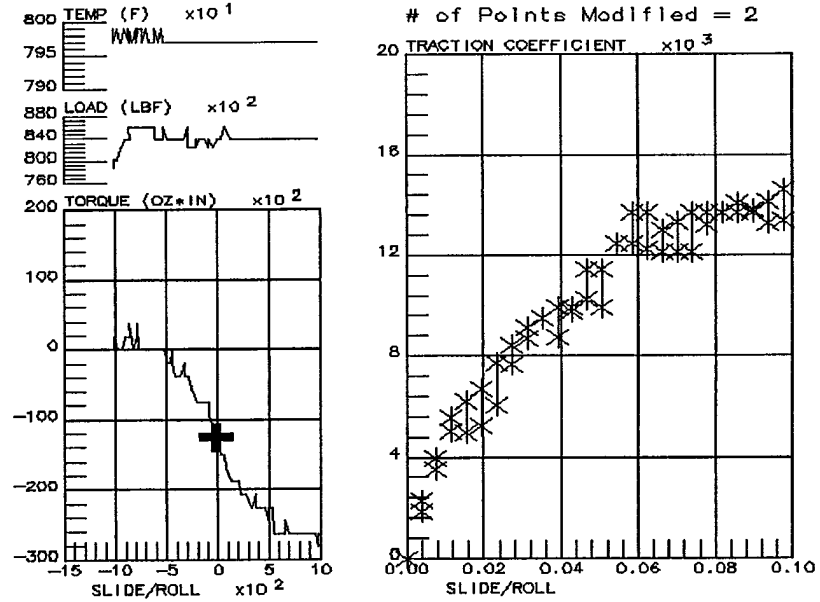
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #30
80F 172LBF 343RPM 15 FILE: bq8012



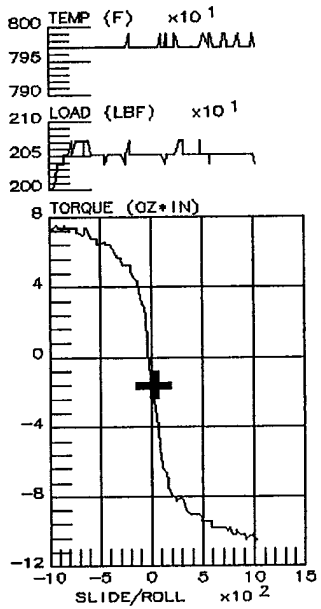
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #31
80F 3LBF 650RPM 16 FILE: bq8012

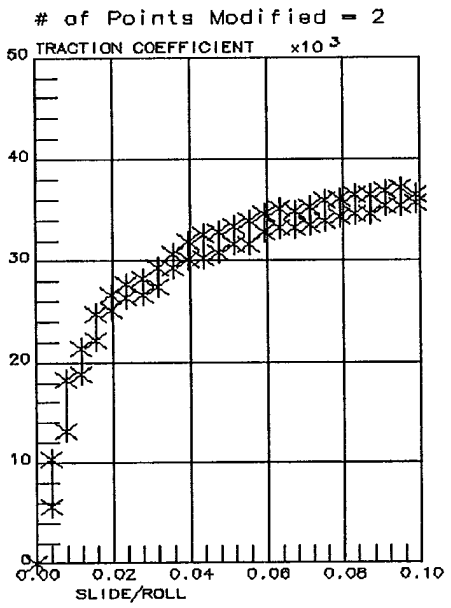


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #32
80F 8LBF 650RPM 17 FILE: bq8012

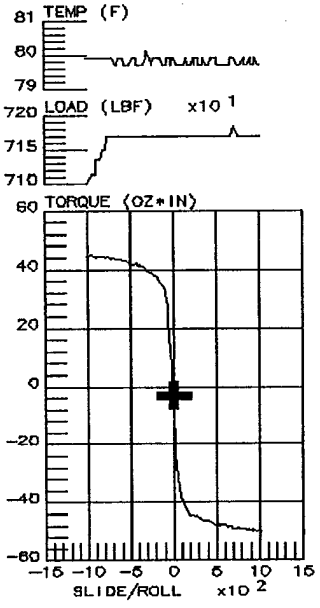


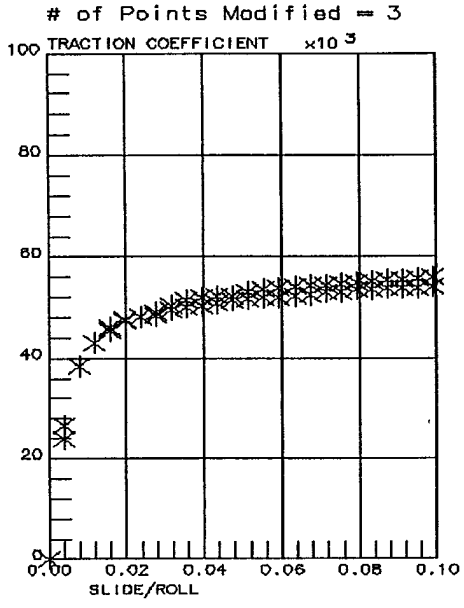
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #33
80F 21LBF 650RPM 18 FILE: bq8012



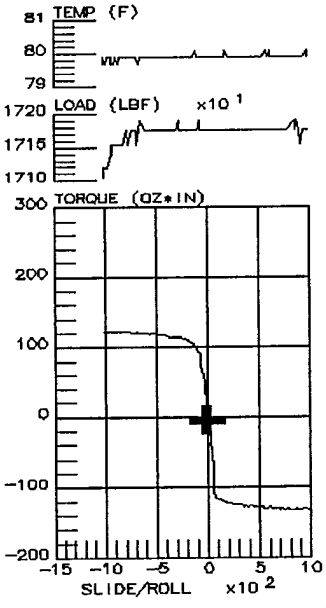


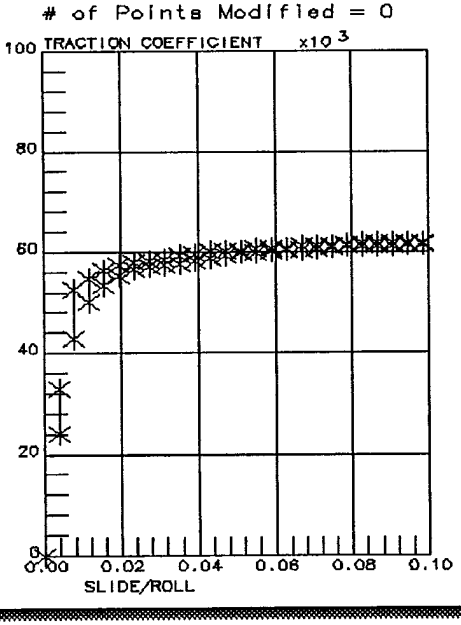
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #34
80F 72LBF 650RPM 19 FILE: bq8012



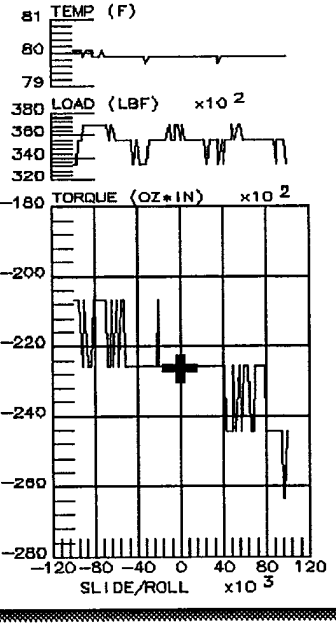


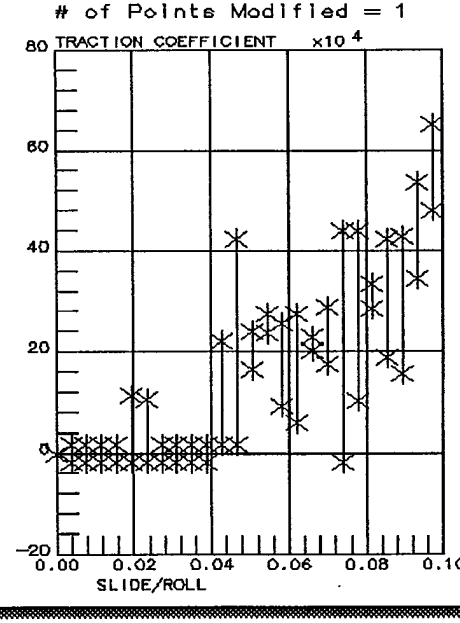
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #35
80F 172LBF 650RPM 20 FILE: bq8012



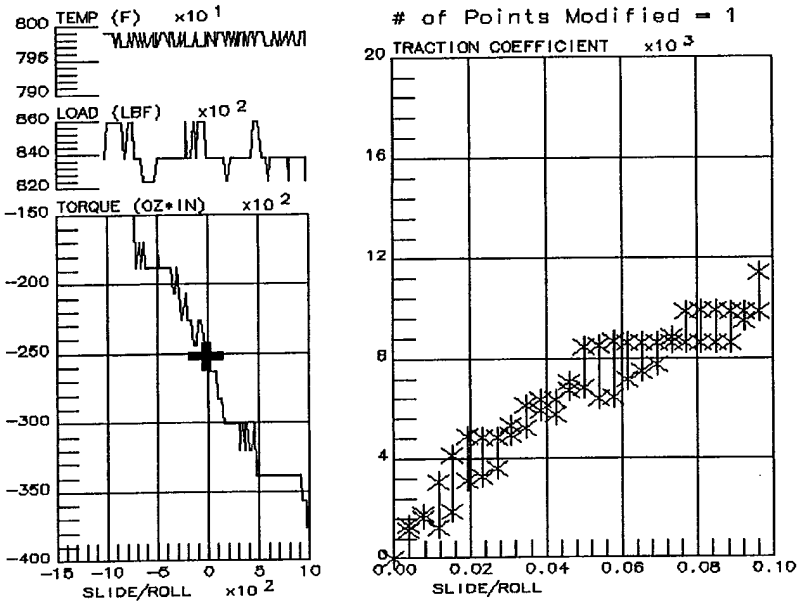


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #36
80F 3LBF 1260RPM 21 FILE: bq8012

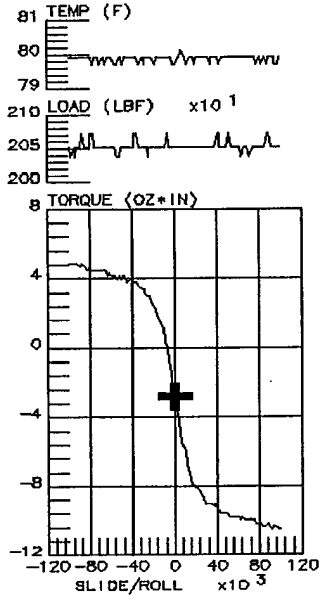


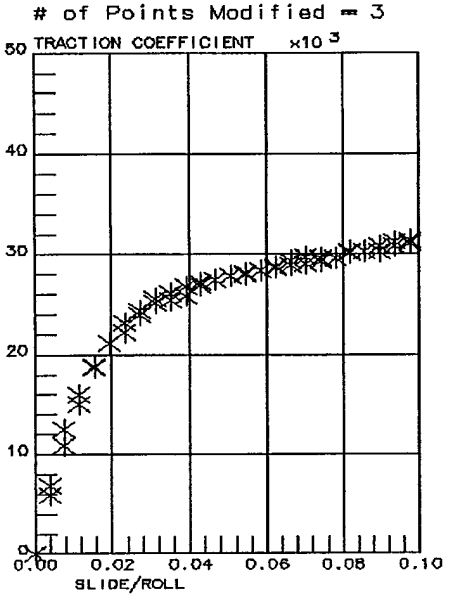


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #37
80F 8LBF 1260RPM 22 FILE: bq8012

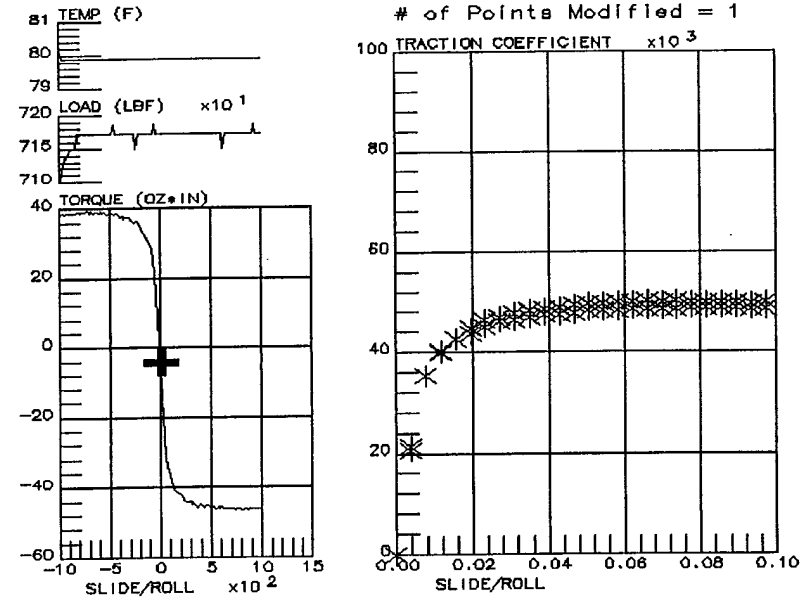


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #38
80F 21LBF 1260RPM 23 FILE: bq8012

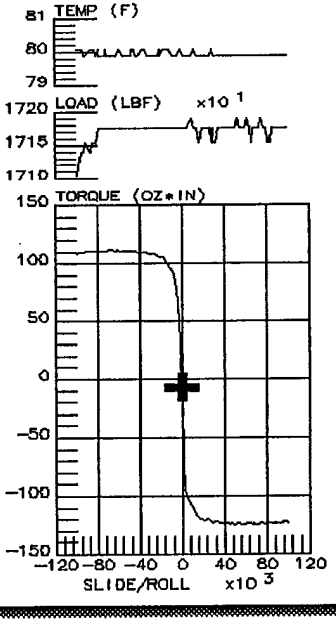


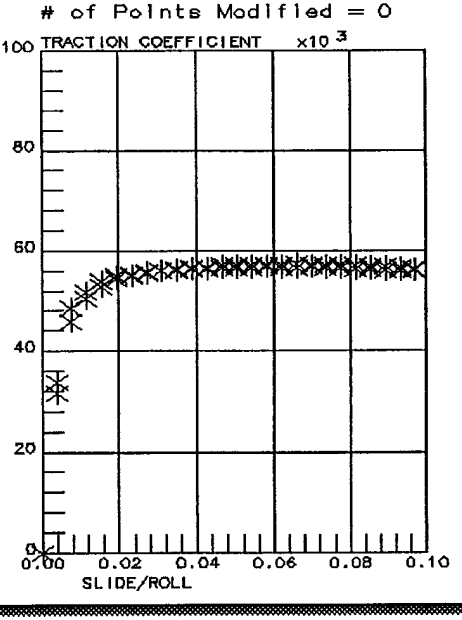


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #39
80F 72LBF 1260RPM 24 FILE: bq8012

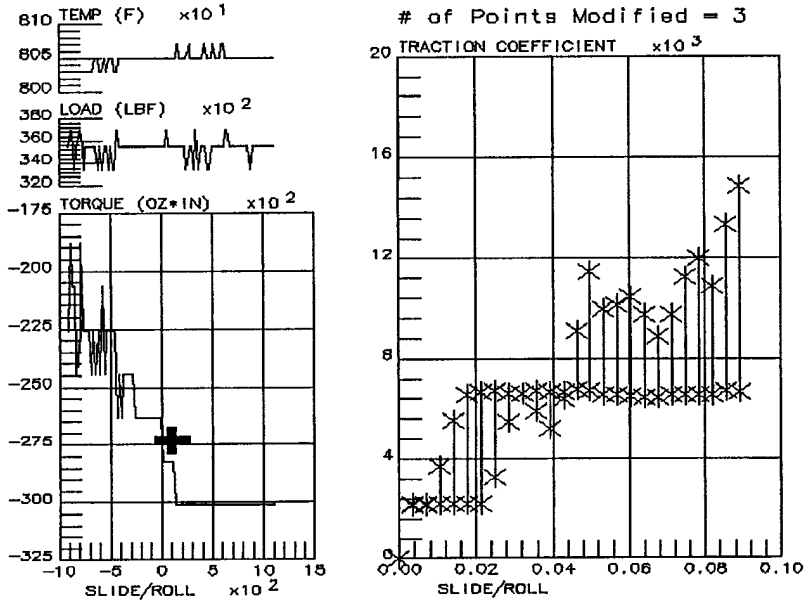


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #40
80F 172LBF 1260RPM 25 FILE: bq8012

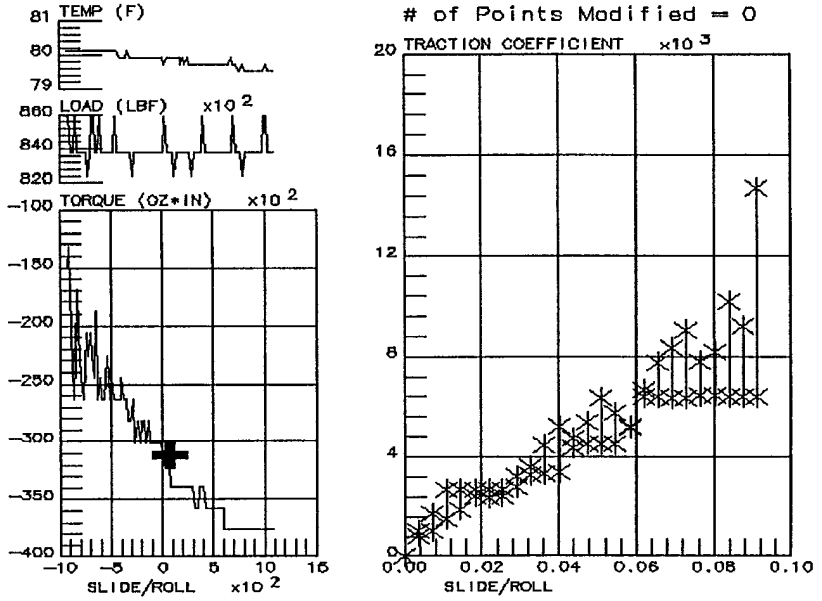




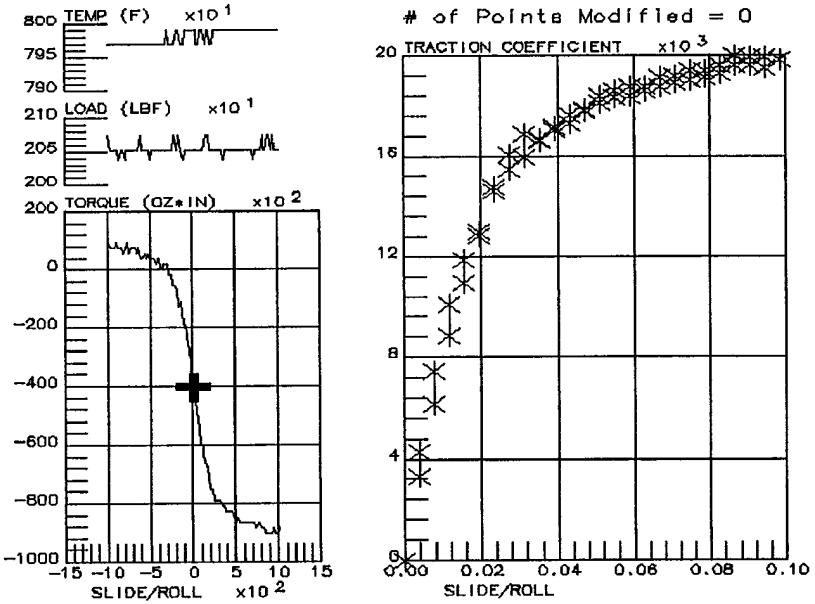
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #41
80F 3LBF 2559RPM 26 FILE: bq8012



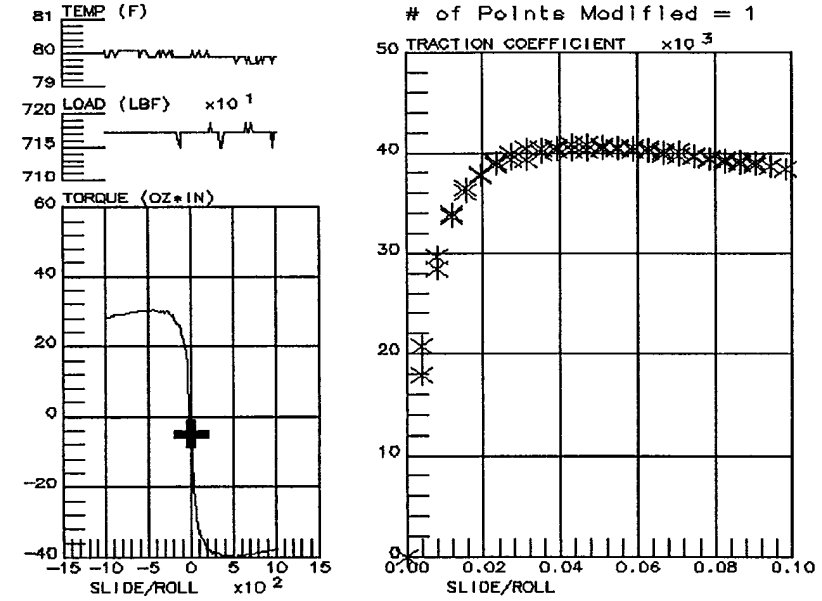
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #42
80F 8LBF 2559RPM 27 FILE: bq8012



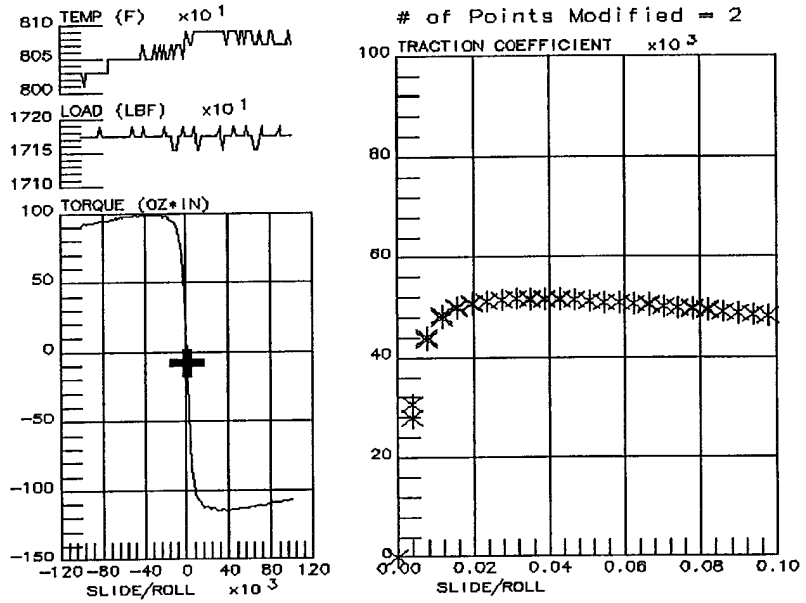
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #43
80F 21LBF 2559RPM 28 FILE: bq8012



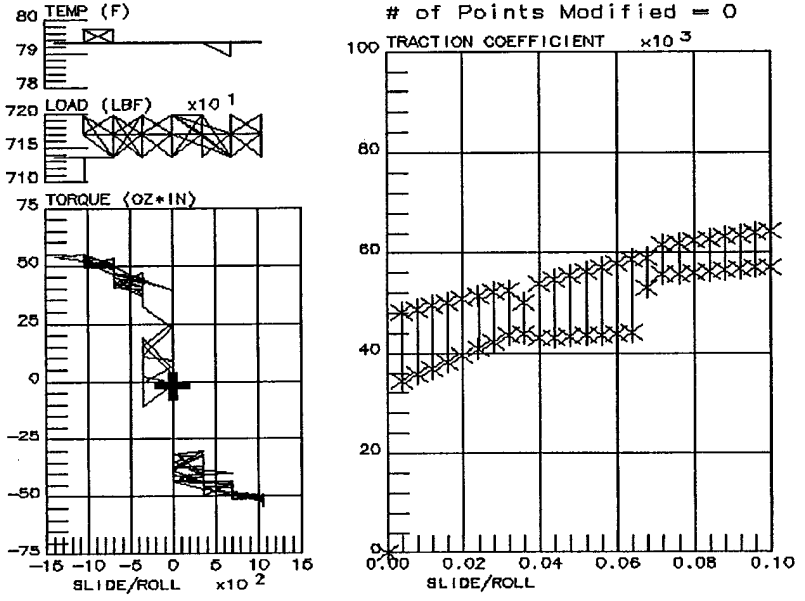
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #44
80F 72LBF 2559RPM 29 FILE: bq8012



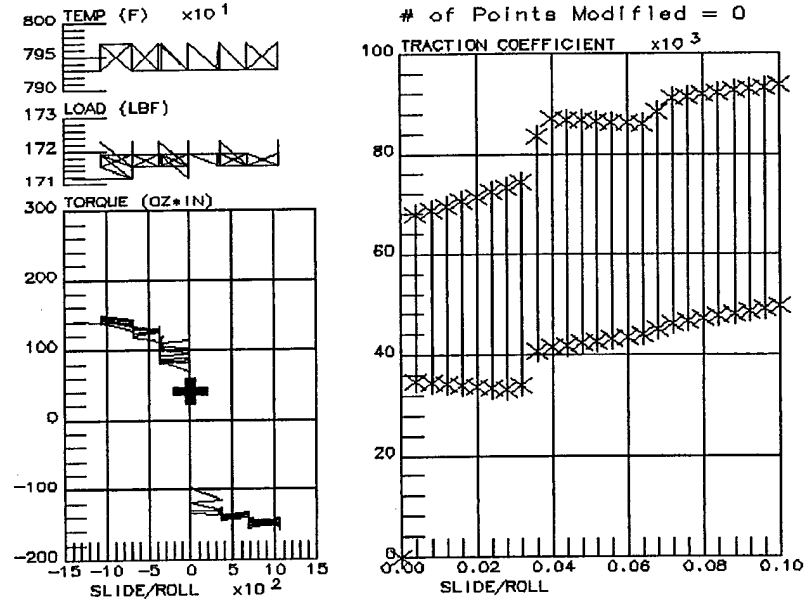
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #45
80F 172LBF 2559RPM 30 FILE: bq8012



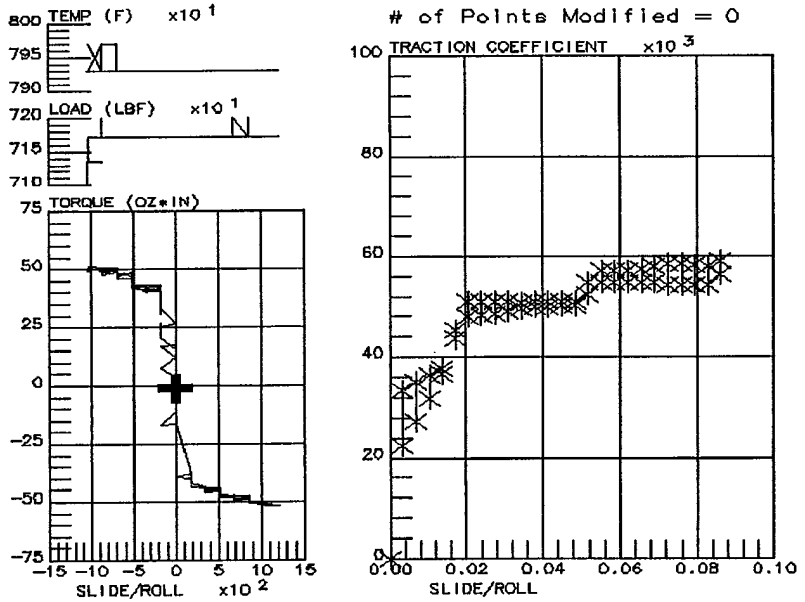
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #46
80F 72LBF 76RPM 1 FILE: bq8012x



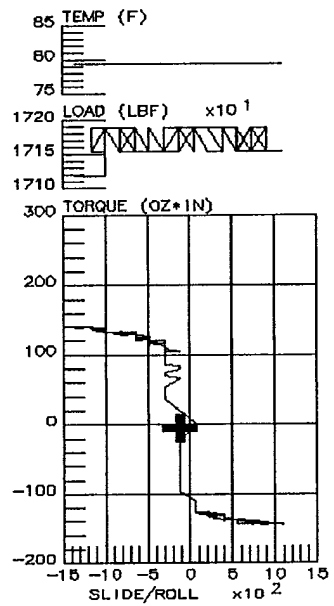
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #47
80F 172LBF 76RPM 2 FILE: bq8012x

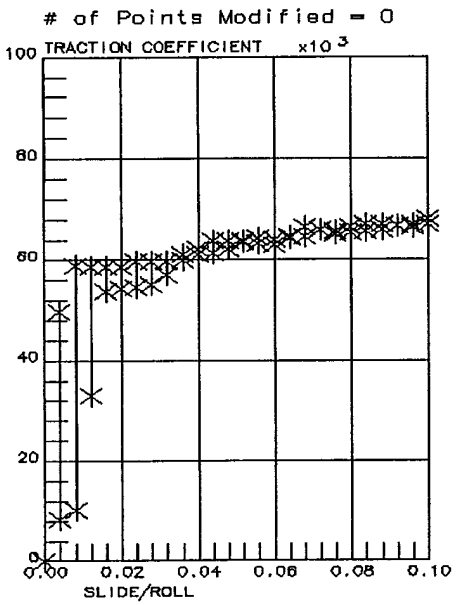


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #48
80F 72LBF 152RPM 3 FILE: bq8012x

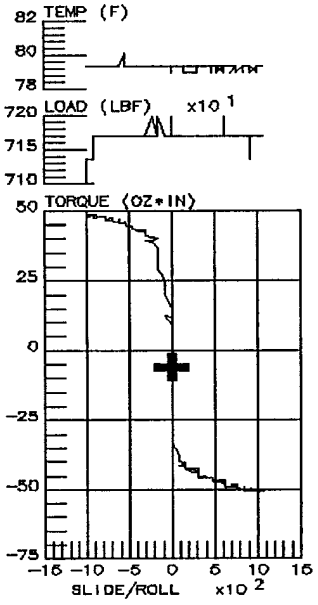


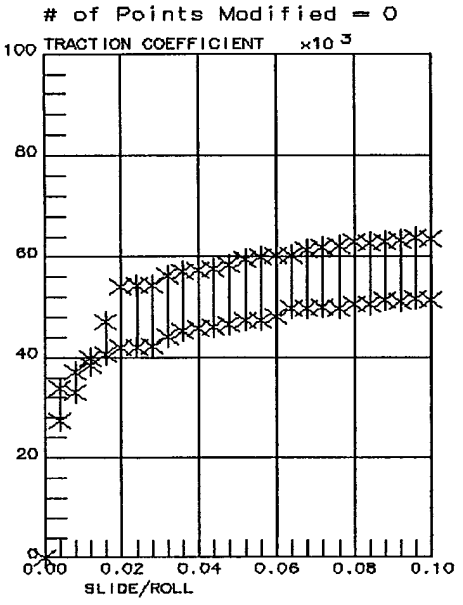
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #49
80F 172LBF 152RPM 4 FILE: bq8012x



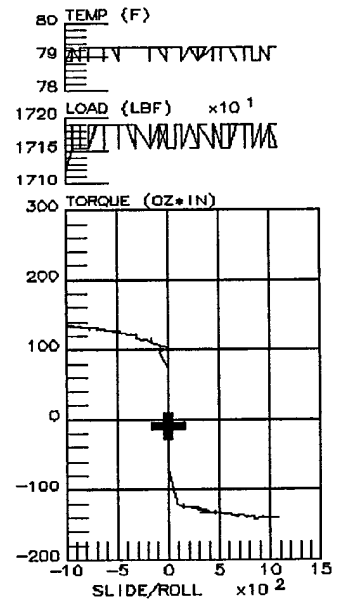


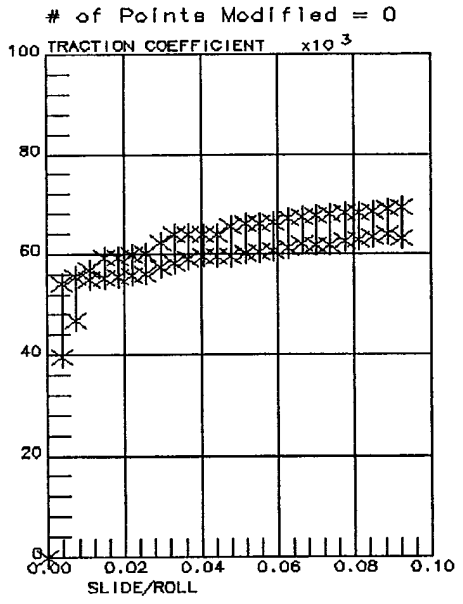
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #50
80F 72LBF 343RPM 5 FILE: bq8012x



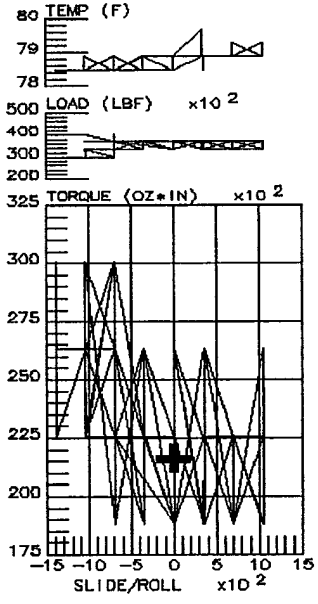


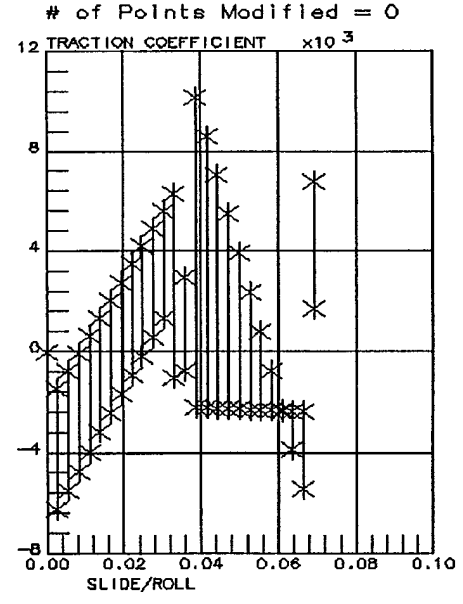
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #51
80F 172LBF 343RPM 6 FILE: bq8012x



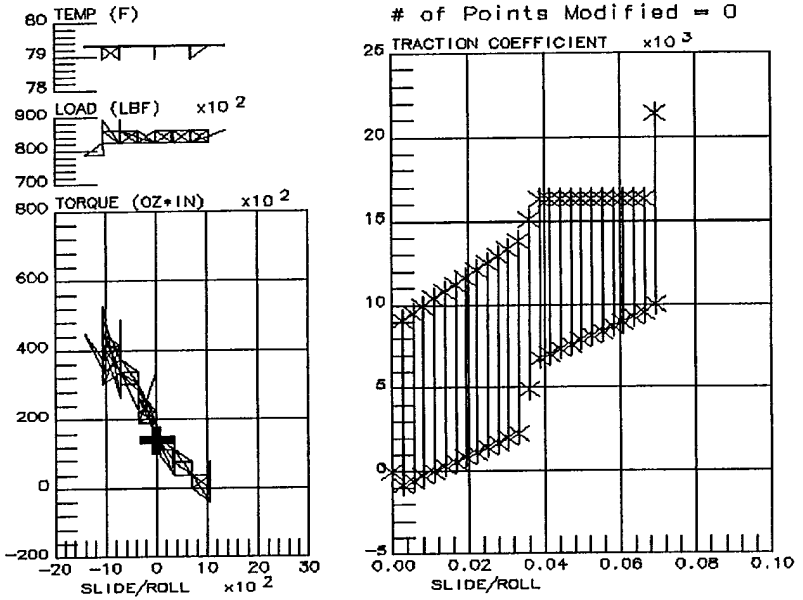


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #52
80F 3LBF 76RPM 1 FILE: bq801x

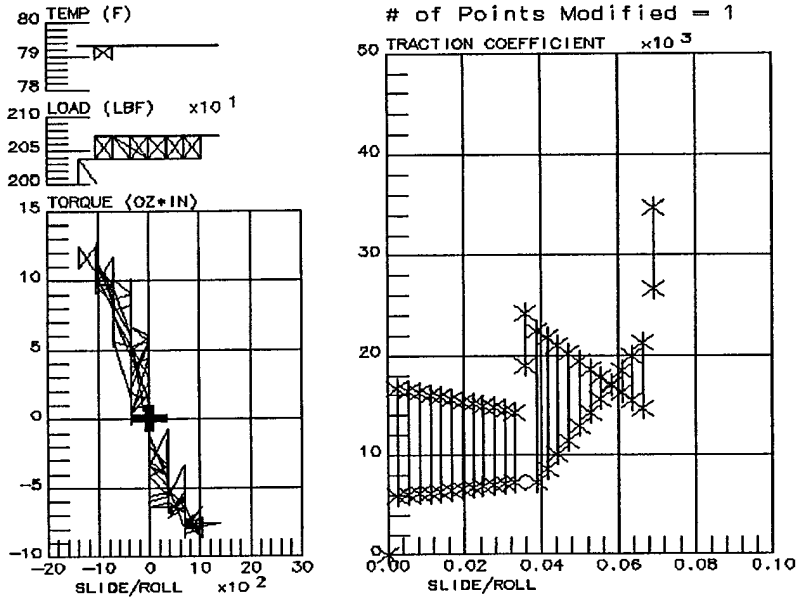




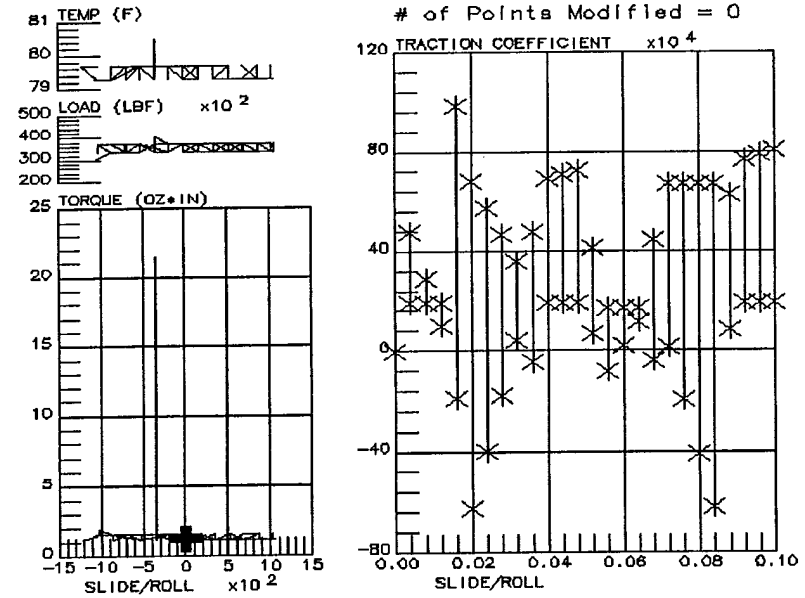
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #53
80F 8LBF 76RPM 2 FILE: bq801x



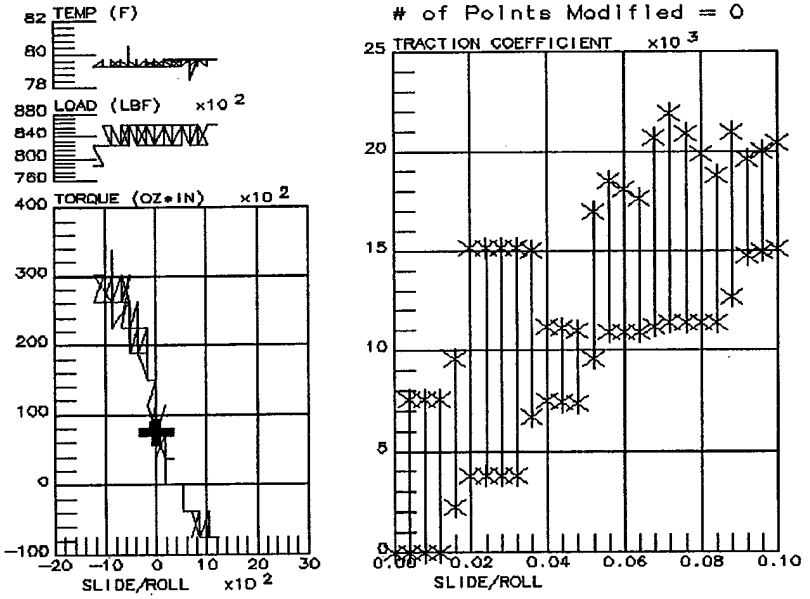
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #54
80F 21LBF 76RPM 3 FILE: bq801x



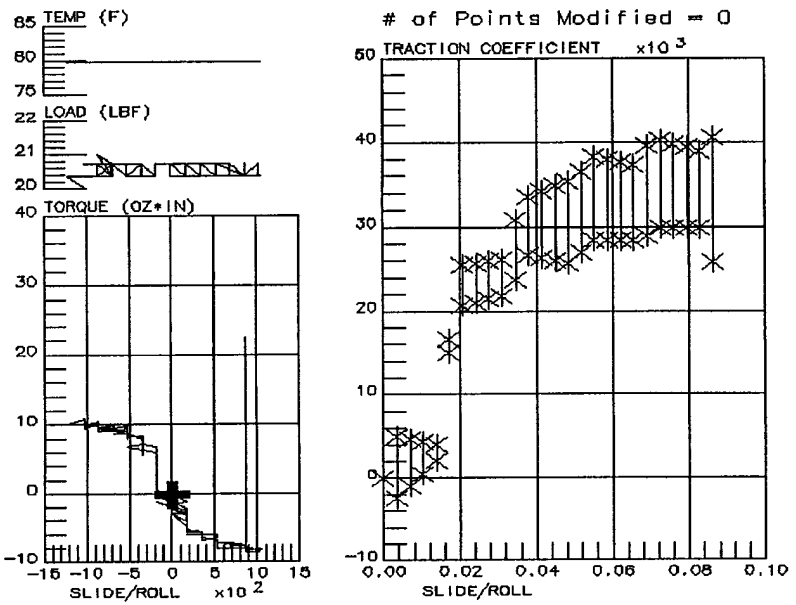
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #55
80F 3LBF 152RPM 4 FILE: bq801x



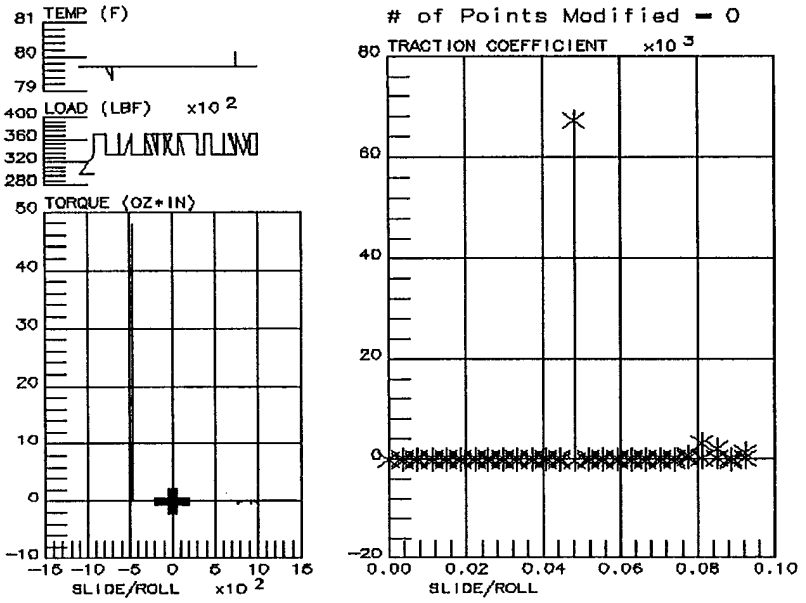
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #56
80F 8LBF 152RPM 5 FILE: bq801x



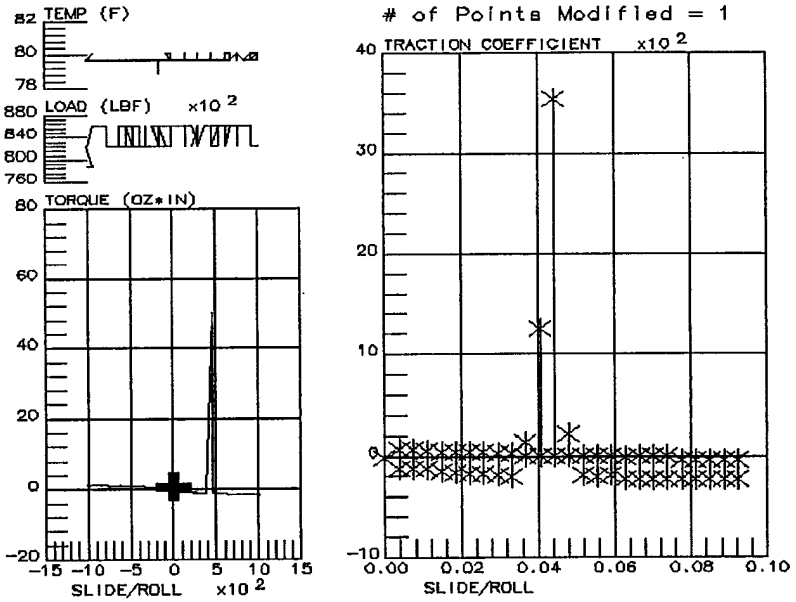
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #57
80F 21LBF 152RPM 6 FILE: bq801x



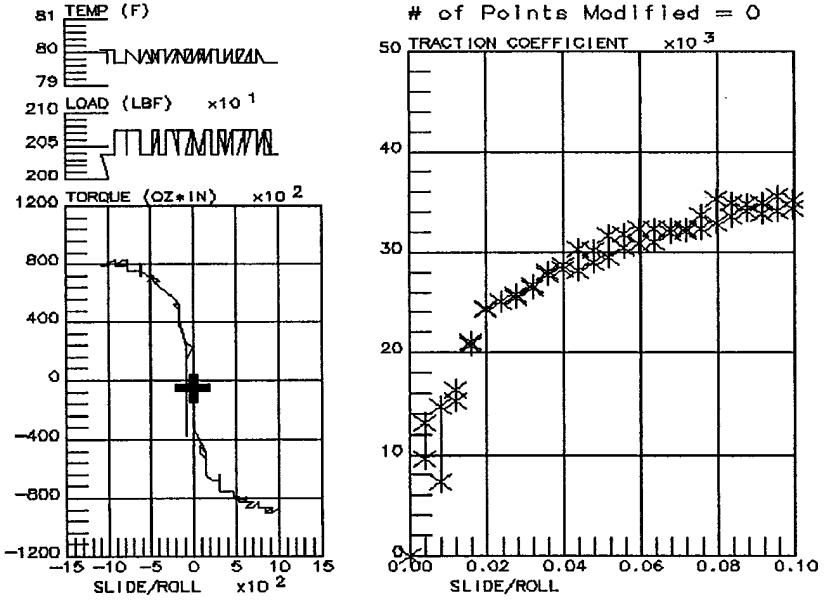
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #58
80F 3LBF 343RPM 7 FILE: bq801x



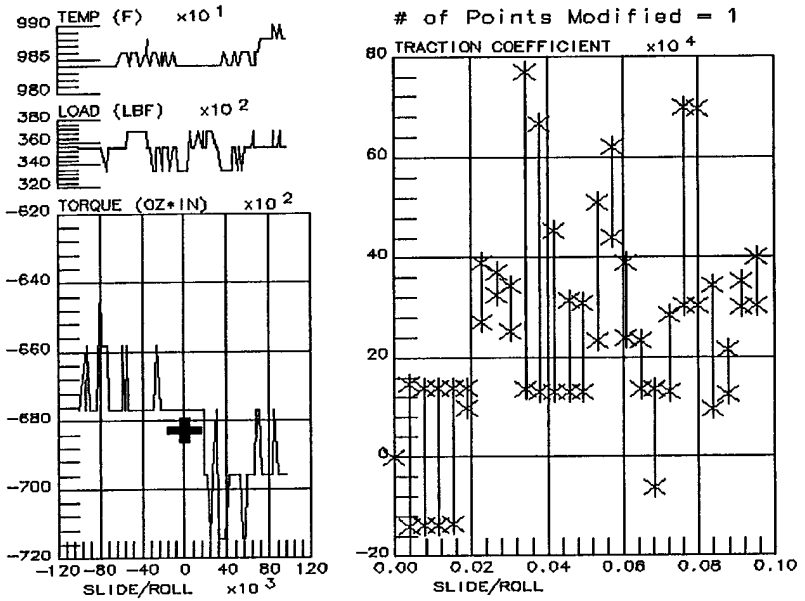
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #59
80F 8LBF 343RPM 8 FILE: bq801x



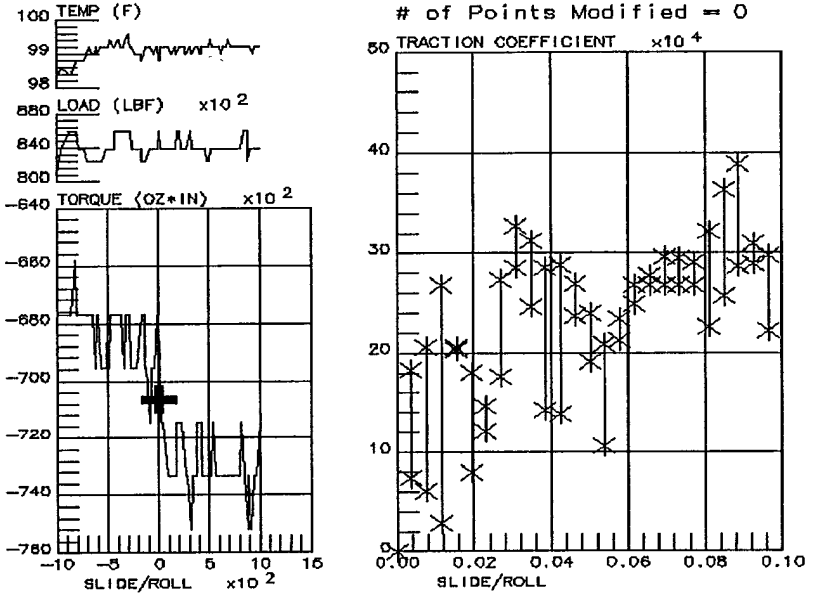
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #60
80F 21LBF 343RPM 9 FILE: bq801x



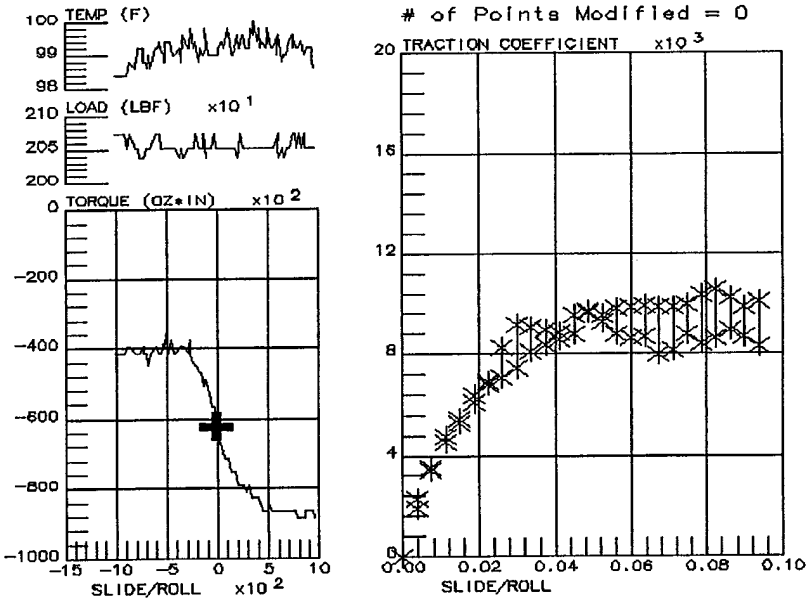
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #61
100F 3LBF 5080RPM 1 FILE: bq100h2



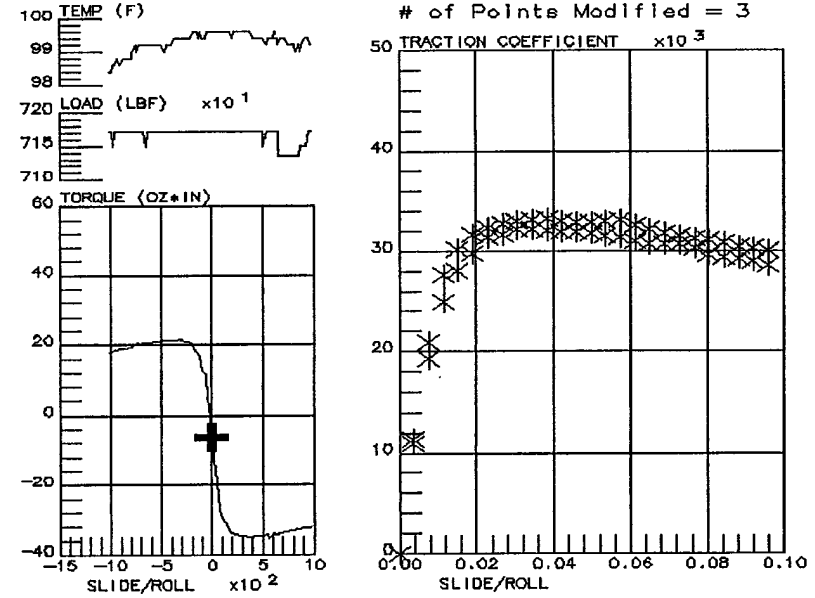
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #62
100F 8LBF 5080RPM 2 FILE: bq100h2



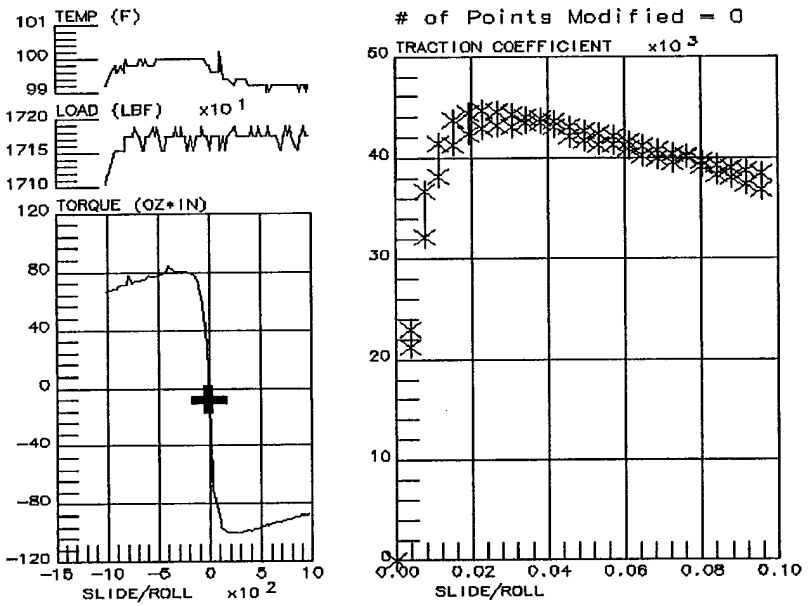
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #63
100F 21LBF 5080RPM 3 FILE: bq100h2



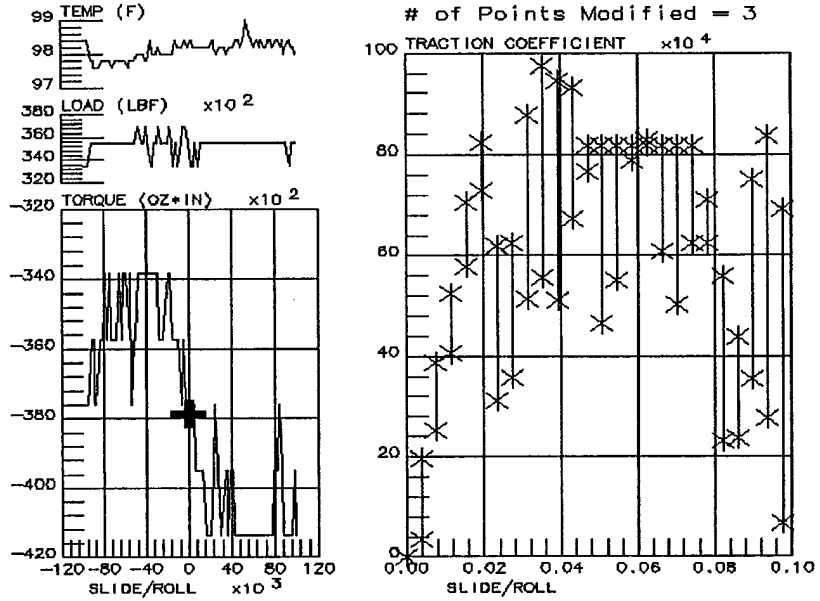
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #64
100F 72LBF 5080RPM 4 FILE: bq100h2



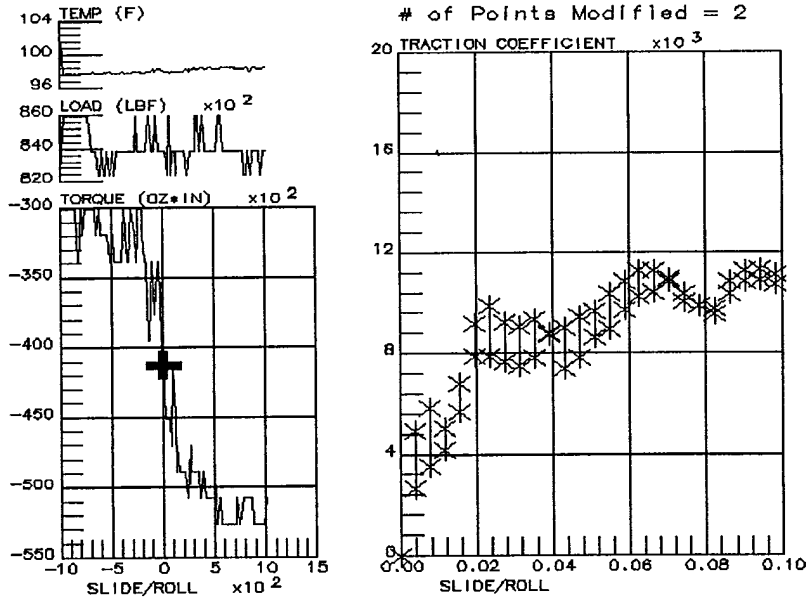
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #65
100F 172LBF 5080RPM 5 FILE: bq100h2



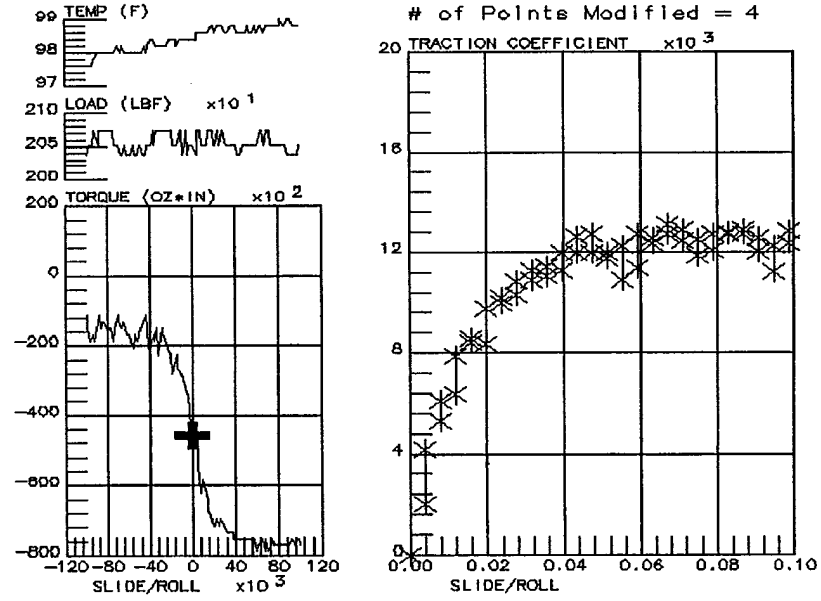
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #66
100F 3LBF 7639RPM 6 FILE: bq100h2



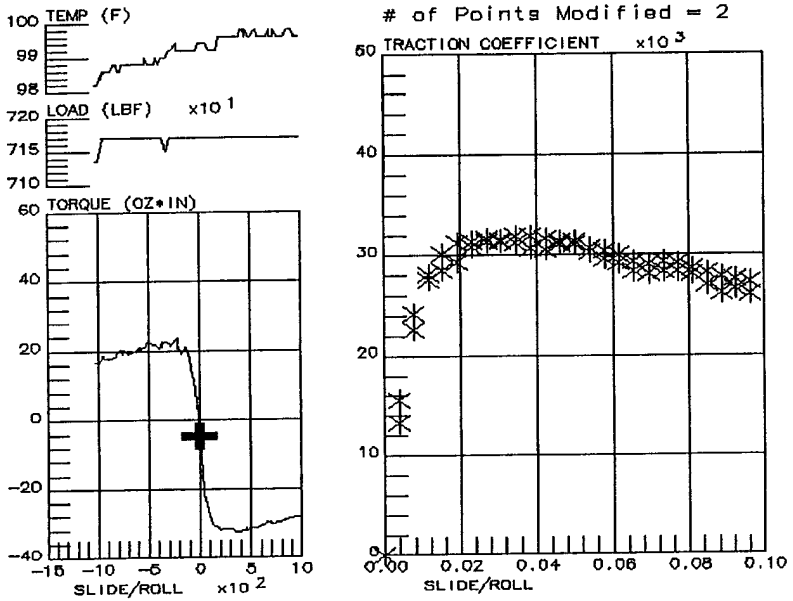
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #67
100F 8LBF 7639RPM 7 FILE: bq100h2



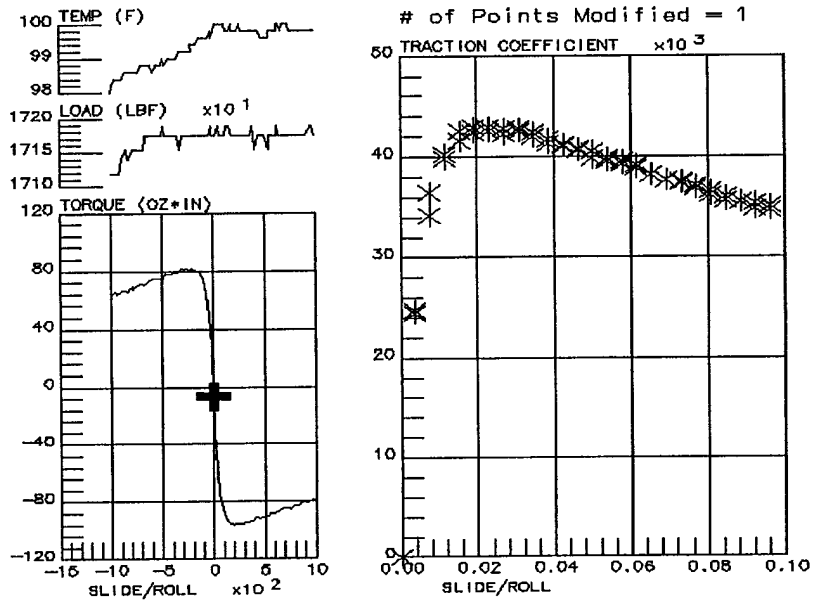
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #68
100F 21LBF 7639RPM 8 FILE: bq100h2



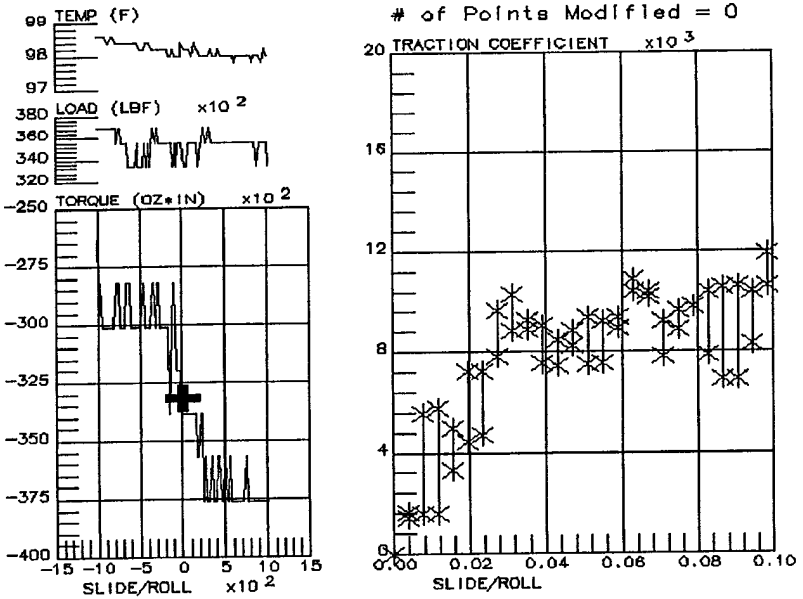
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #69
100F 72LBF 7639RPM 9 FILE: bq100h2



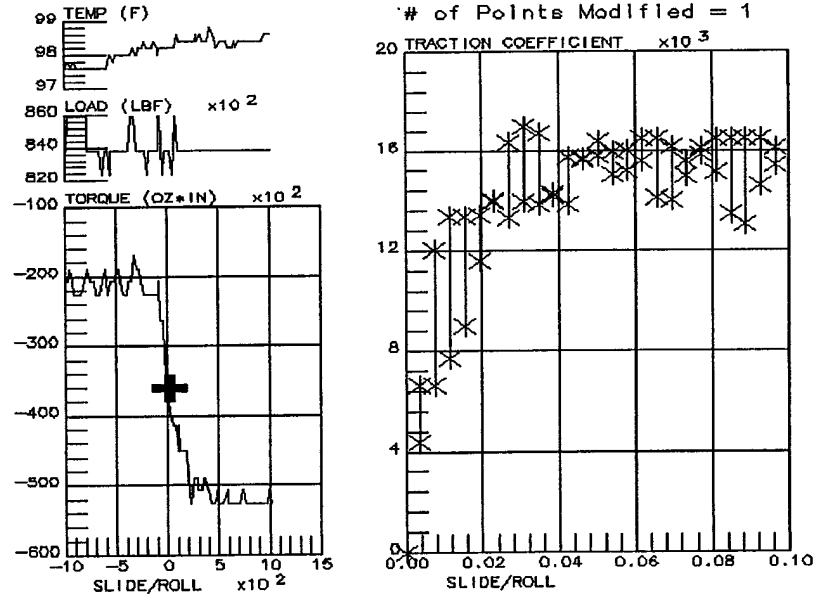
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #70
100F 172LBF 7639RPM 10 FILE: bq100h2



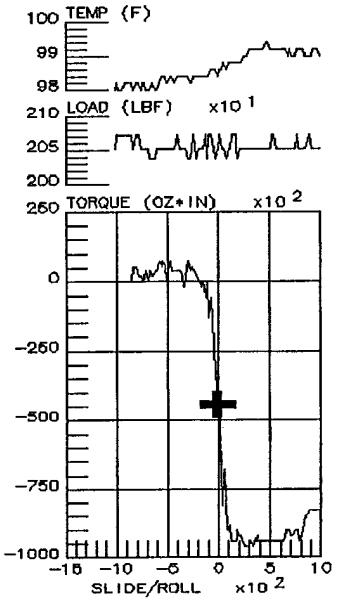
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #71
100F 3LBF 10198RPM 11 FILE: bq100h2



BQ 81-288 ApiezonC+5%Bardhal(VacKote) #72
100F 8LBF 10198RPM 12 FILE: bq100h2



BQ 81-288 ApiezonC+5%Bardhal(VacKote) #73
100F 21LBF 10198RPM 13 FILE: bq100h2



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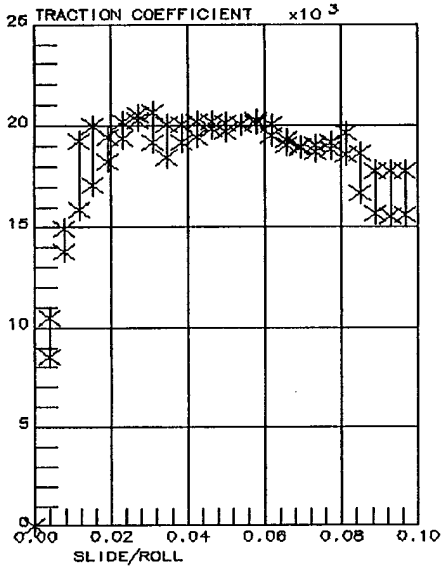
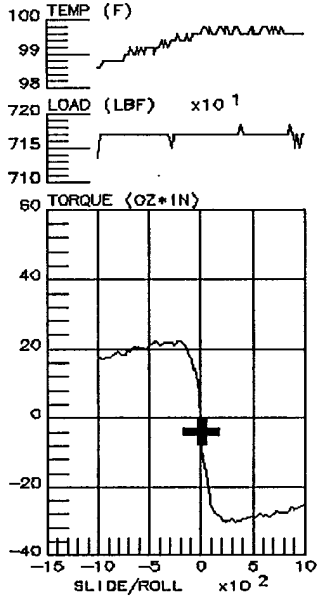


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #74
100F 72LBF 10198RPM 14 FILE: bq100h2



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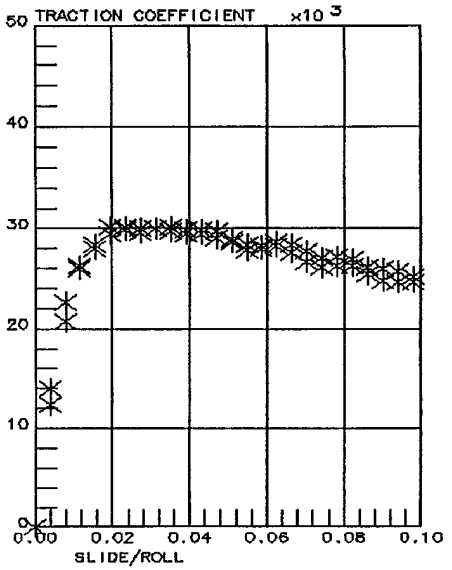
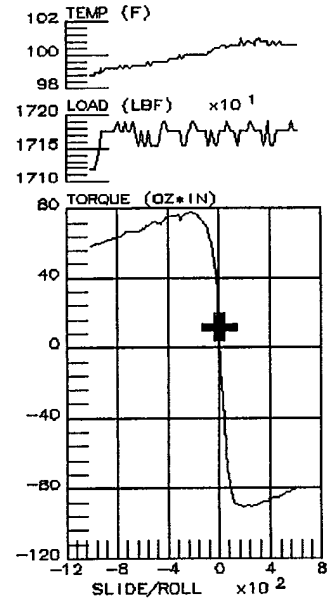


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #75
100F 172LBF 10198RPM 15 FILE: bq100h2



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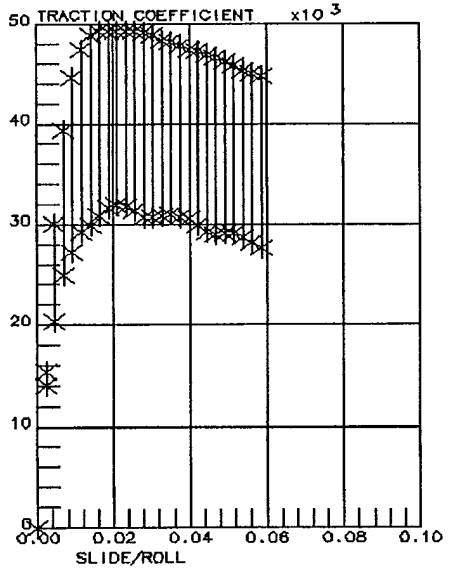
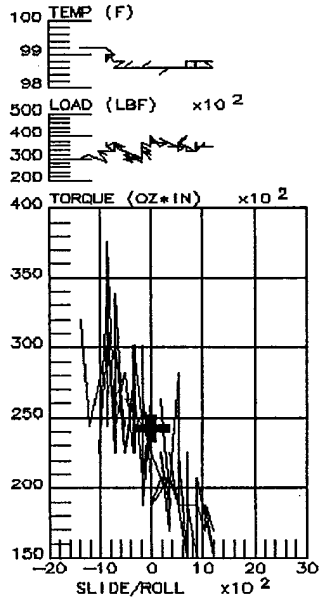


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #76
100F 3LBF 76RPM 1 FILE: bq10012



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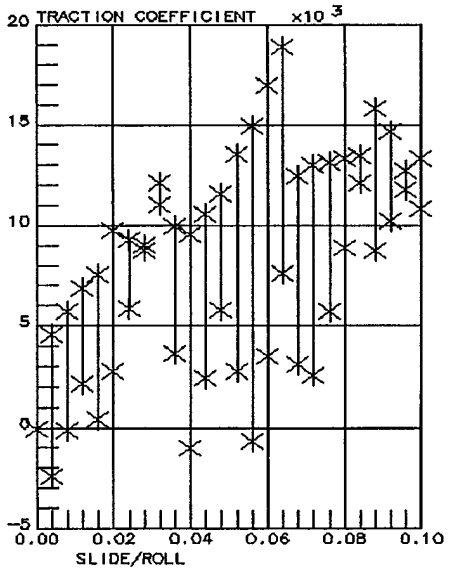
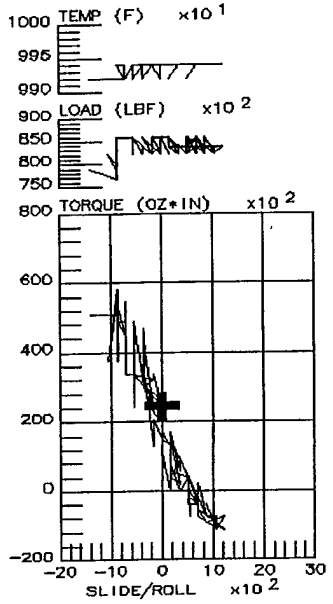


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #77
100F 8LBF 76RPM 2 FILE: bq10012



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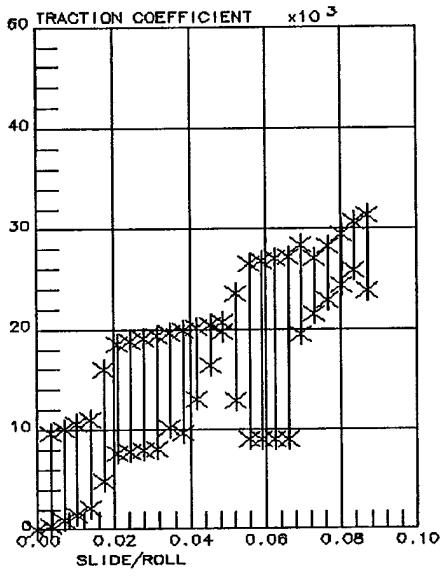
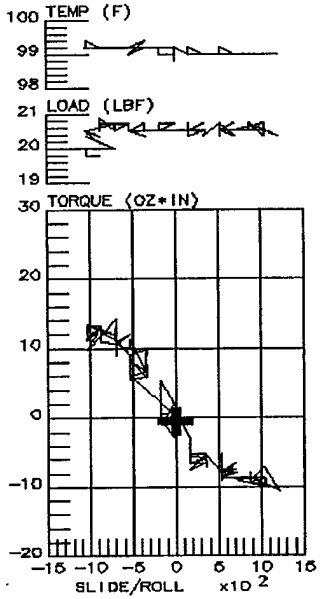


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #78
100F 21LBF 76RPM 3 FILE: bq10012



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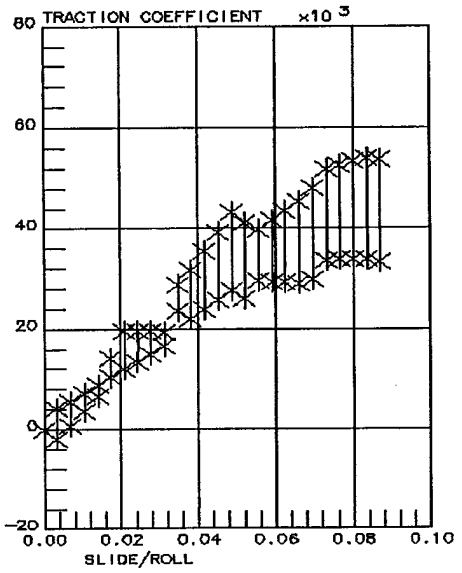
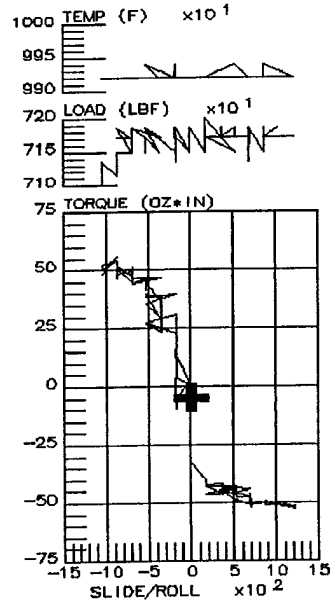


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #79
100F 72LBF 76RPM 4 FILE: bq10012



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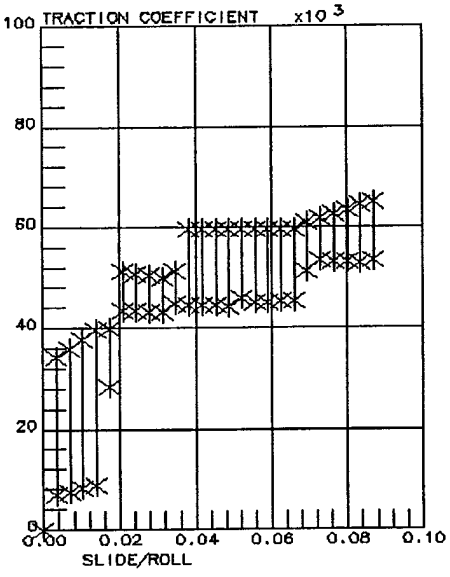
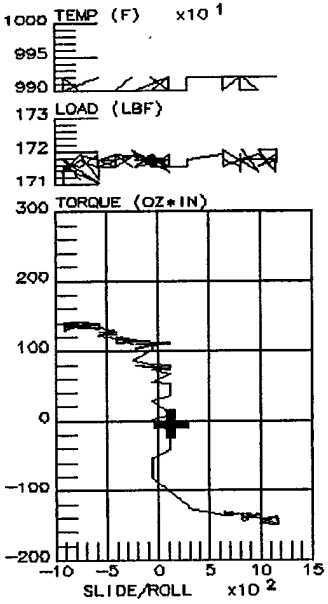


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #80
100F 172LBF 76RPM 5 FILE: bq10012



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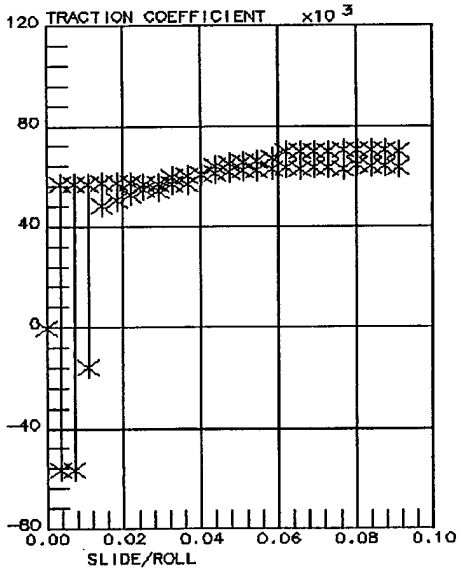
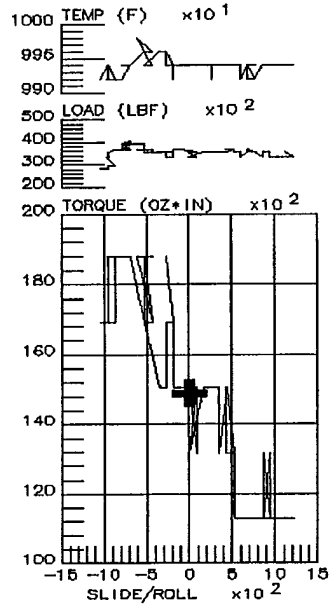


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #81
100F 3LBF 152RPM 6 FILE: bq10012



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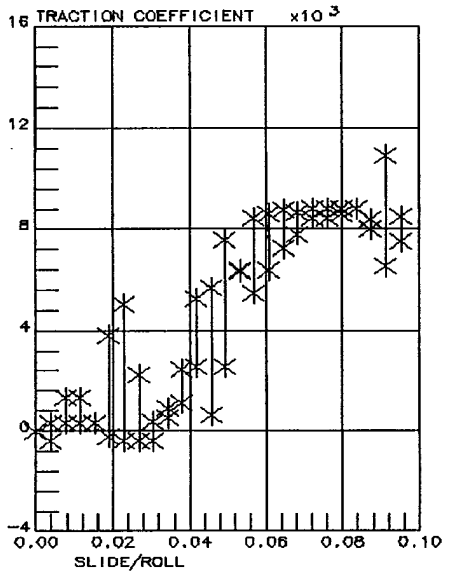
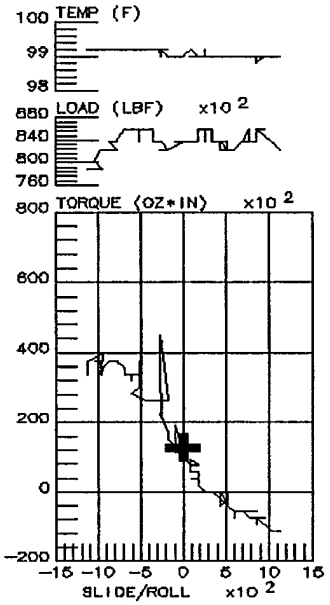


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #82
100F 8LBF 152RPM 7 FILE: bq10012



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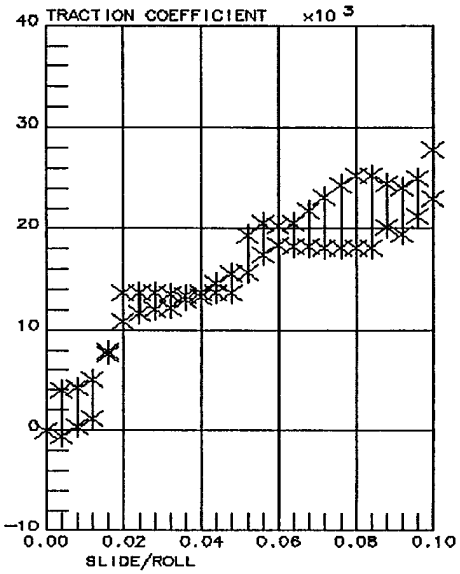
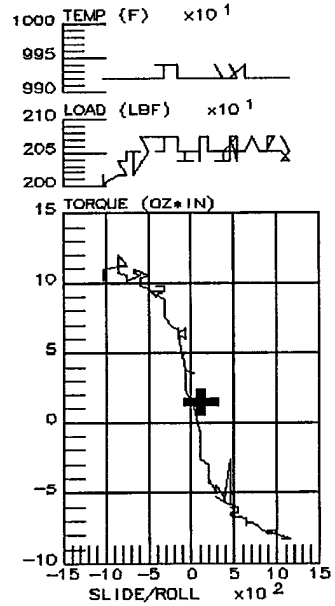


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #83
100F 21LBF 152RPM 8 FILE: bq10012



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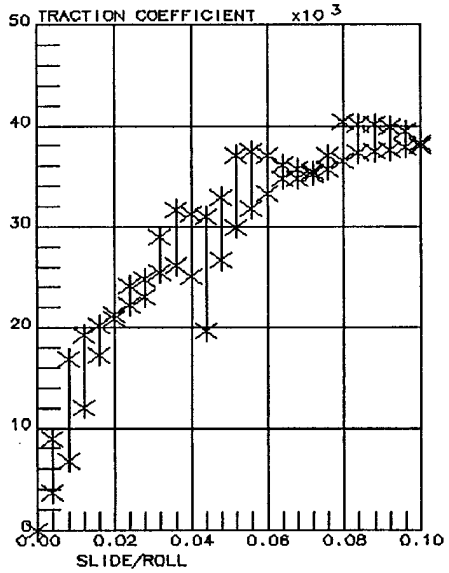
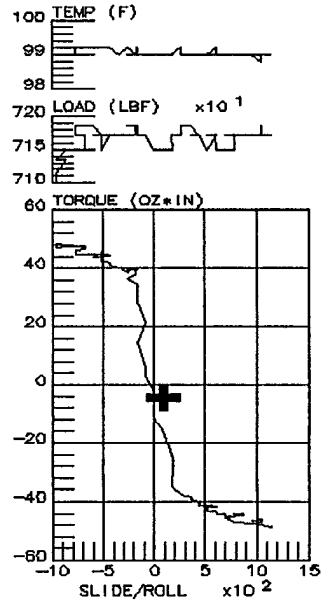


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #84
100F 72LBF 152RPM 9 FILE: bq10012



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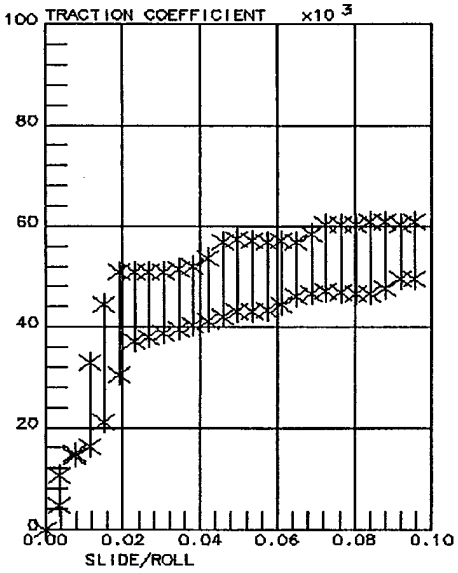
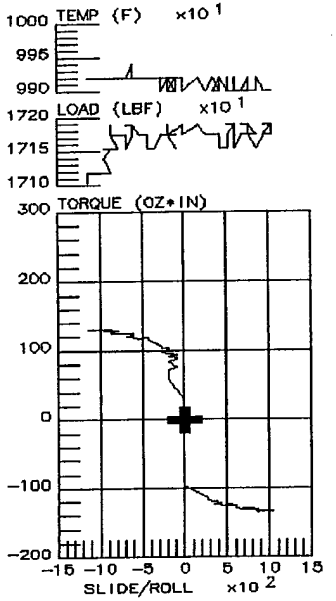
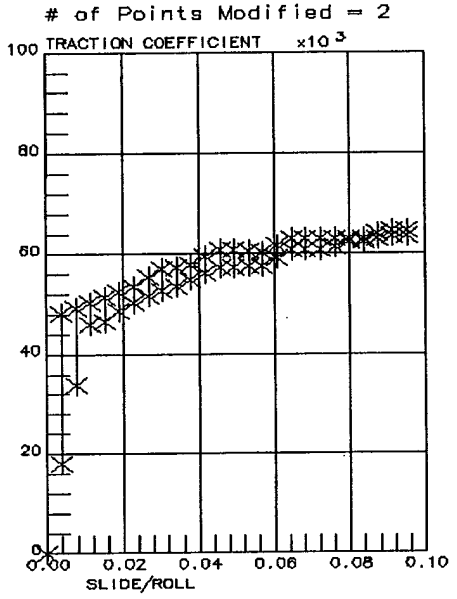
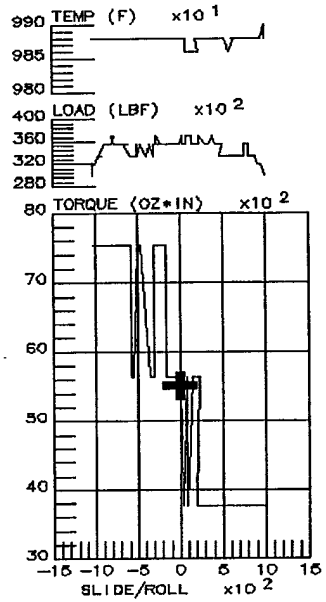


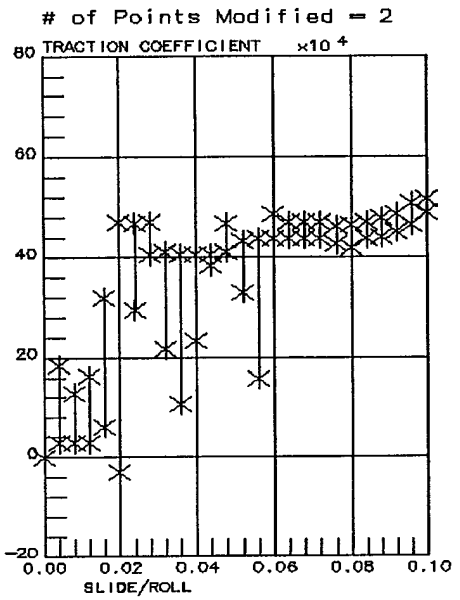
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #85
100F 172LBF 152RPM 10 FILE: bq10012



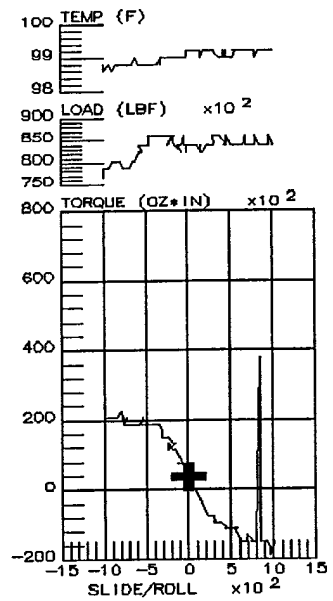


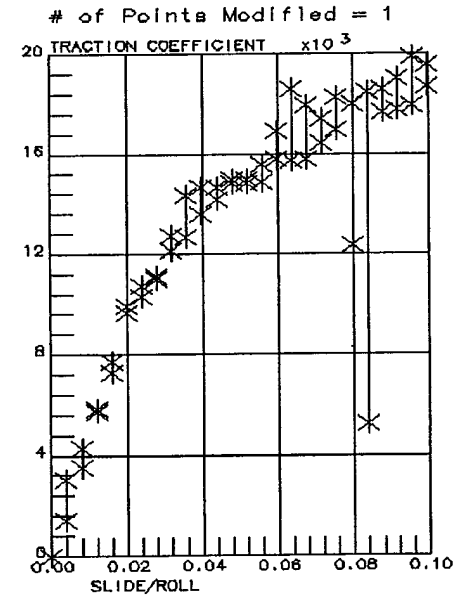
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #86
100F 3LBF 343RPM 11 FILE: bq10012



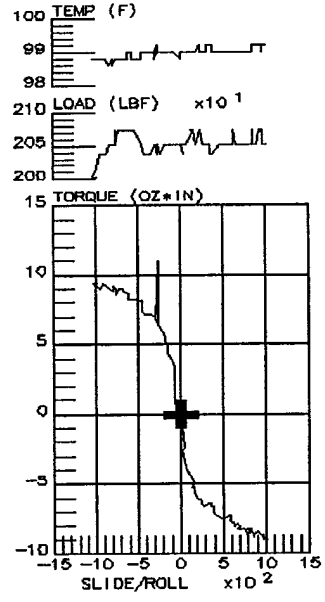


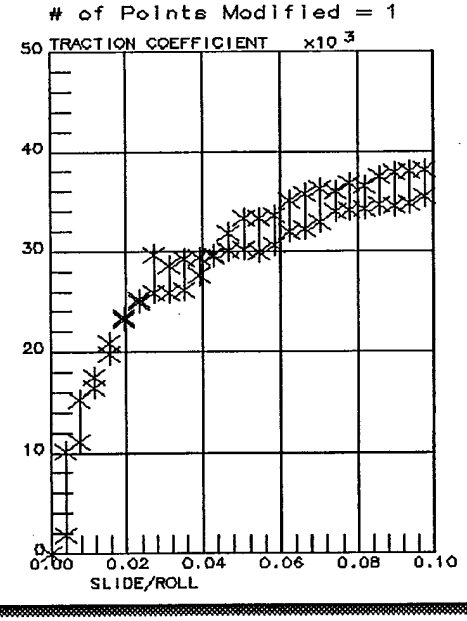
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #87
100F 8LBF 343RPM 12 FILE: bq10012



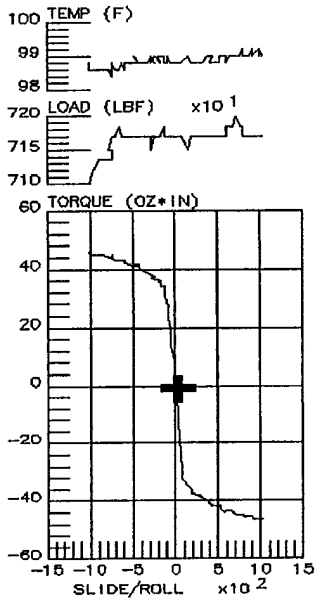


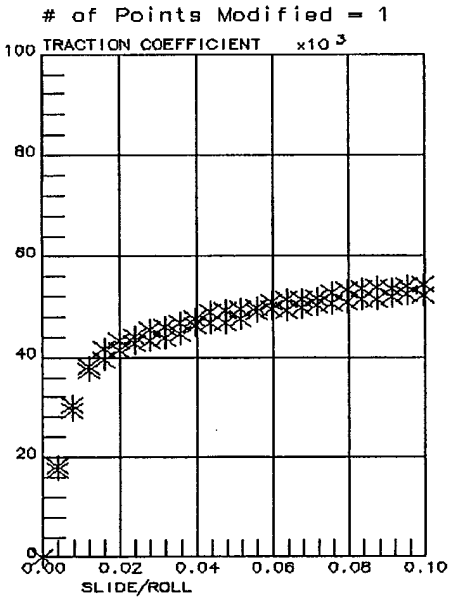
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #88
100F 21LBF 343RPM 13 FILE: bq10012



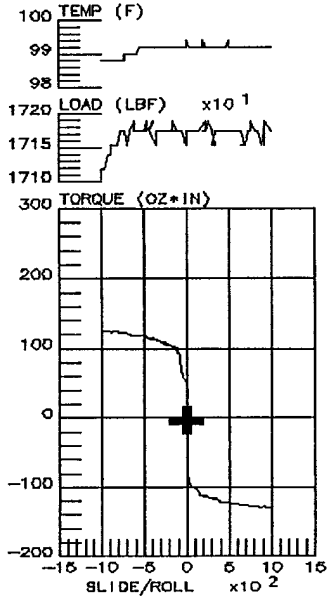


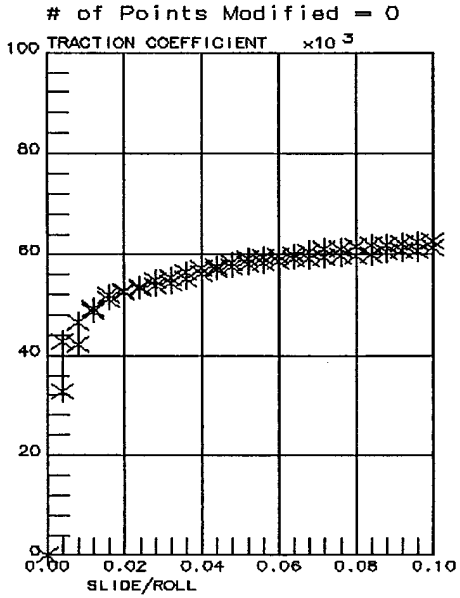
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #89
100F 72LBF 343RPM 14 FILE: bq10012



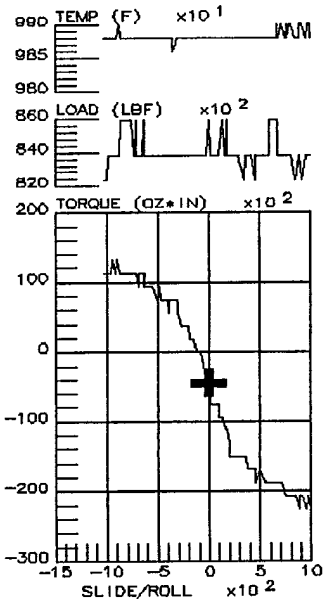


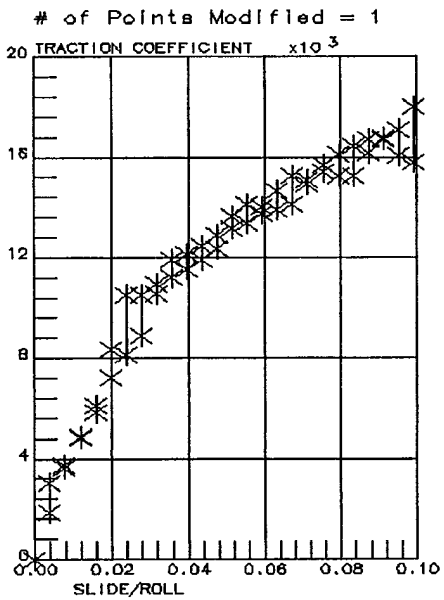
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #90
100F 172LBF 343RPM 15 FILE: bq10012



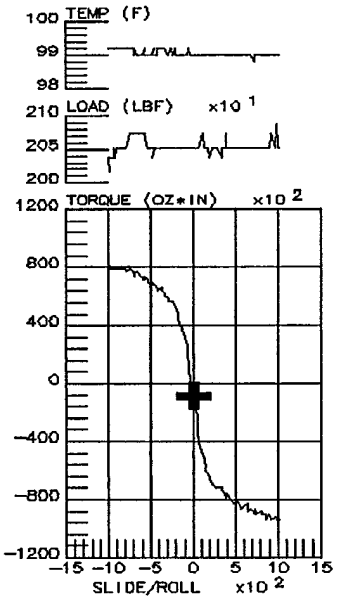


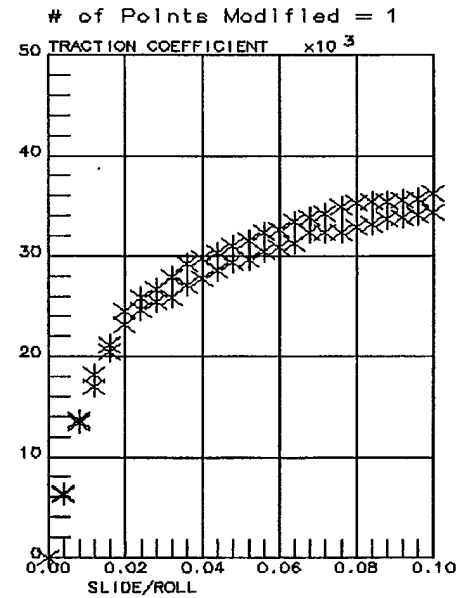
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #91
100F 8LBF 650RPM 17 FILE: bq10012



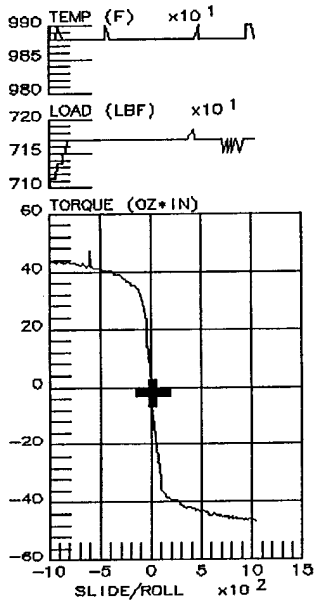


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #92
100F 21LBF 650RPM 18 FILE: bq10012





BQ 81-288 ApiezonC+5%Bardhal(VacKote) #93
100F 72LBF 650RPM 19 FILE: bq10012



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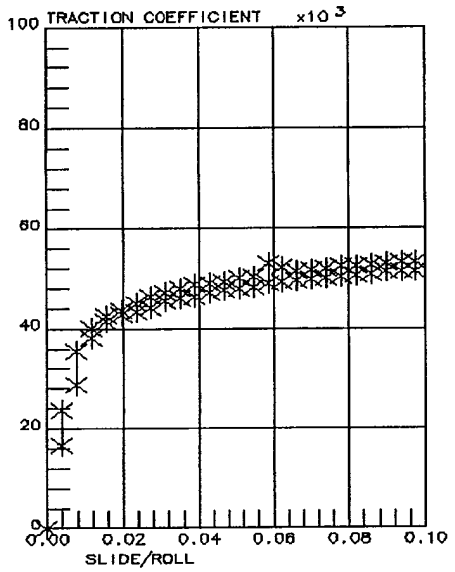
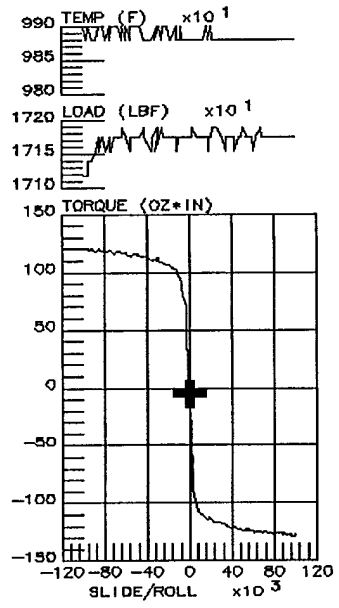


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #94
100F 172LBF 650RPM 20 FILE: bq10012



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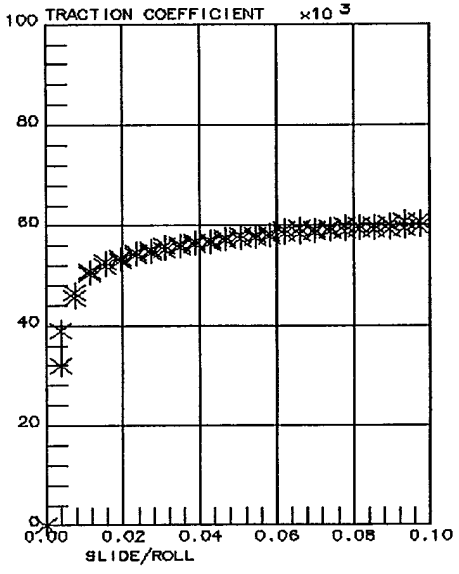
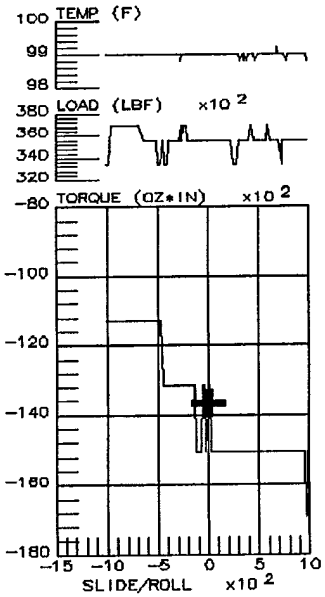


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #95
100F 3LBF 1260RPM 21 FILE: bq10012



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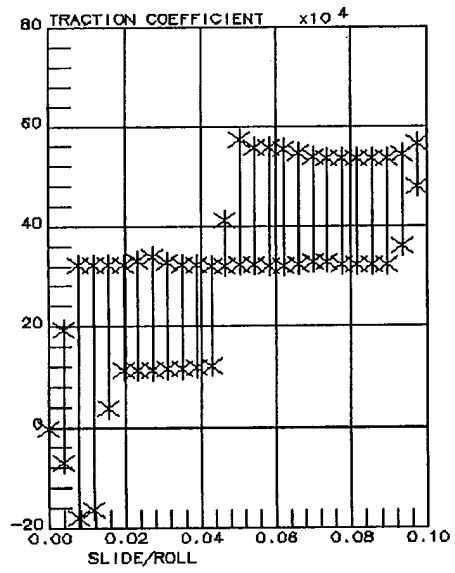
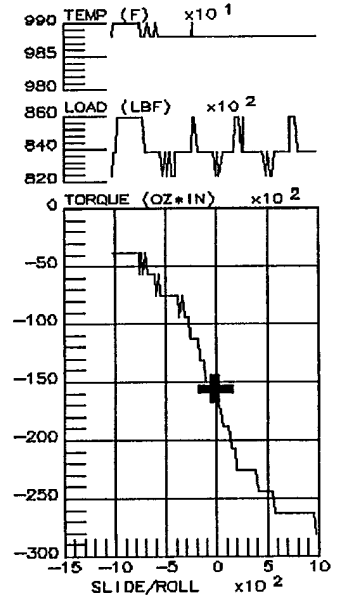


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #96
100F 8LBF 1260RPM 22 FILE: bq10012



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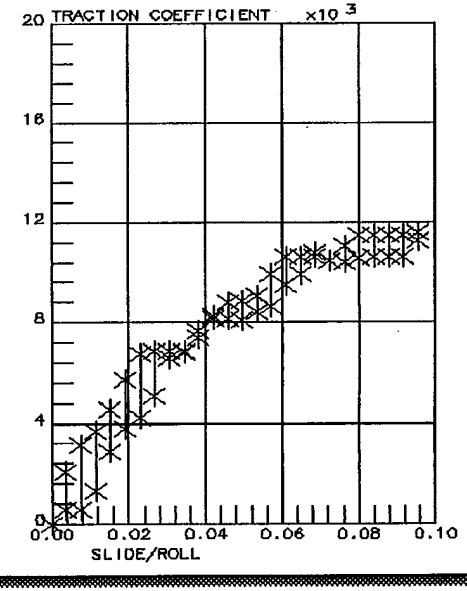
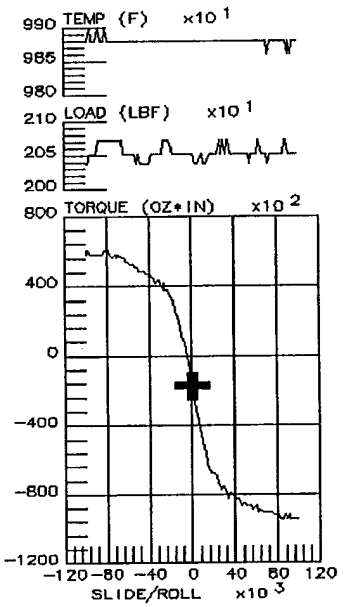
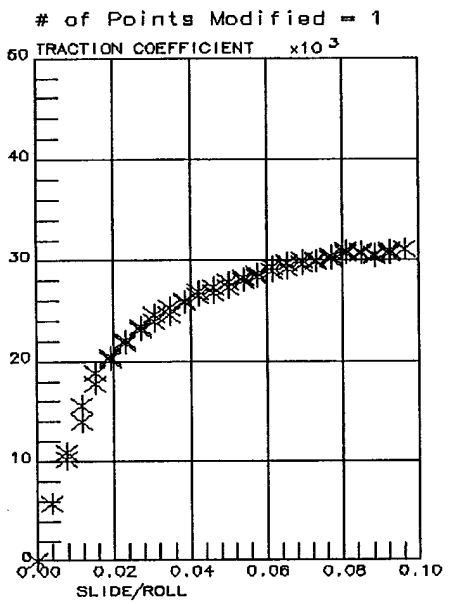
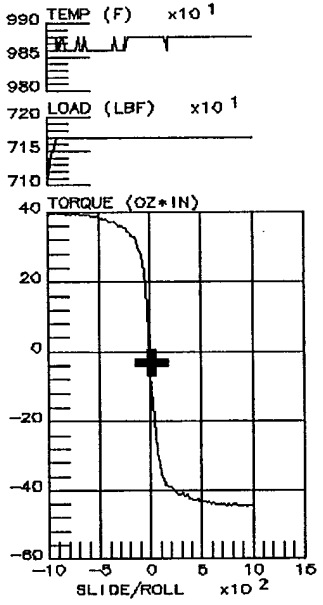


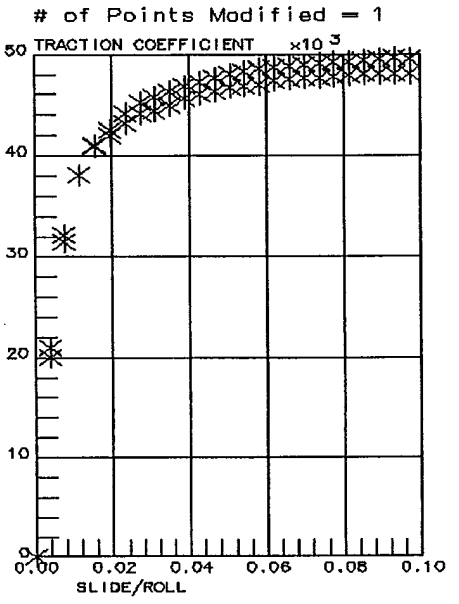
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #97
100F 21LBF 1260RPM 23 FILE: bq10012



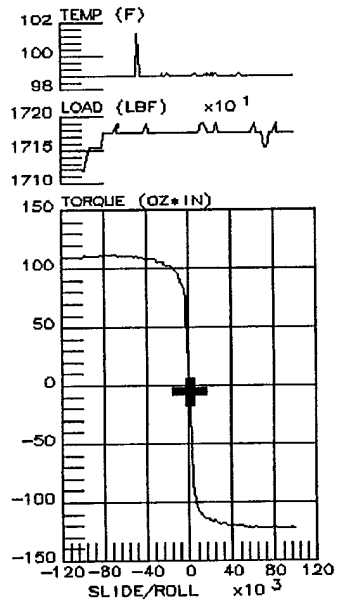


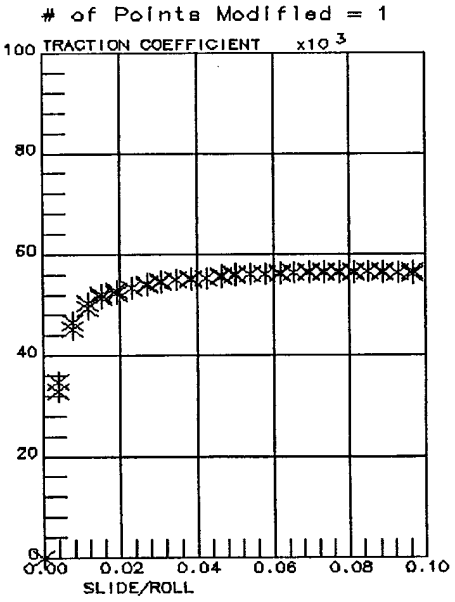
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #98
100F 72LBF 1260RPM 24 FILE: bq10012



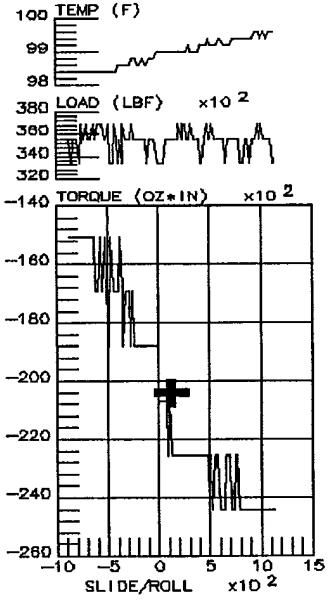


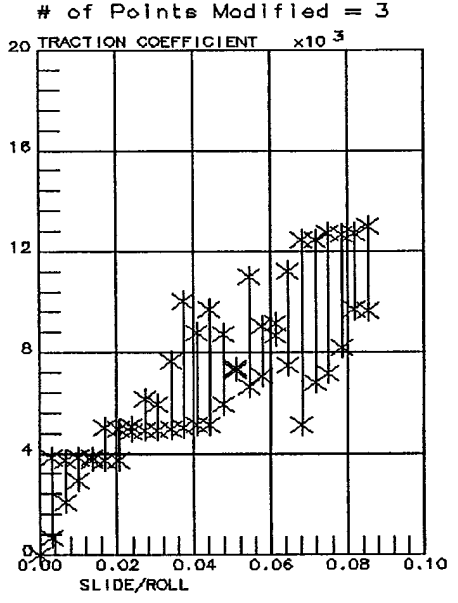
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #99
100F 172LBF 1260RPM 25 FILE: bq10012



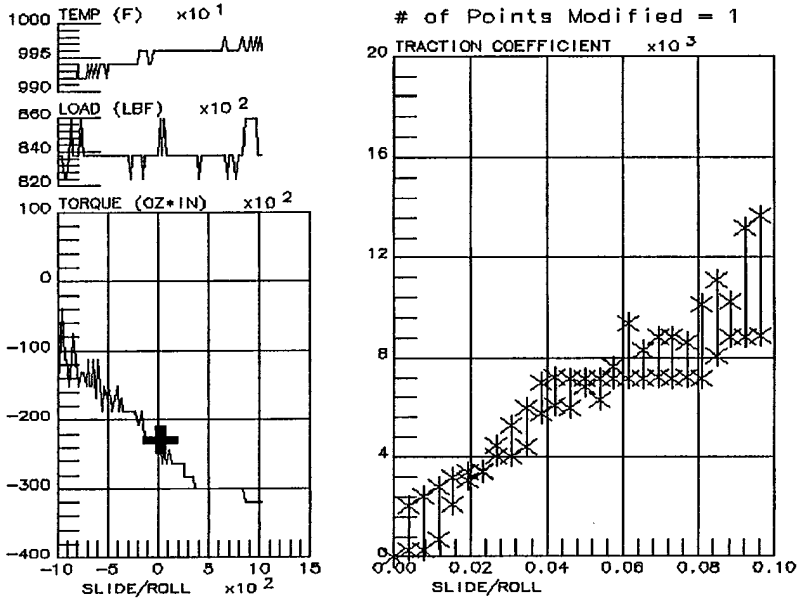


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #100
100F 3LBF 2559RPM 26 FILE: bq10012





BQ 81-288 ApiezonC+5%Bardhal(VacKote) #101
100F 8LBF 2559RPM 27 FILE: bq10012



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BQ 81-288 ApiezonC+5%Bardhal(VacKote) #102
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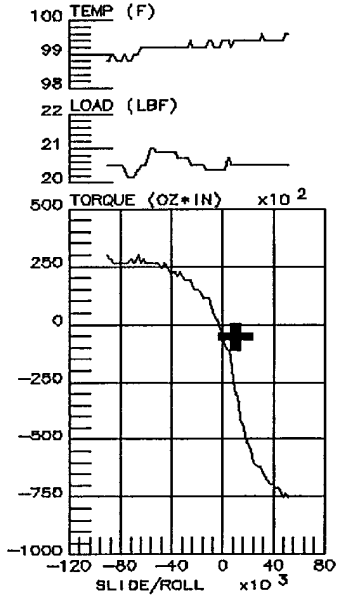

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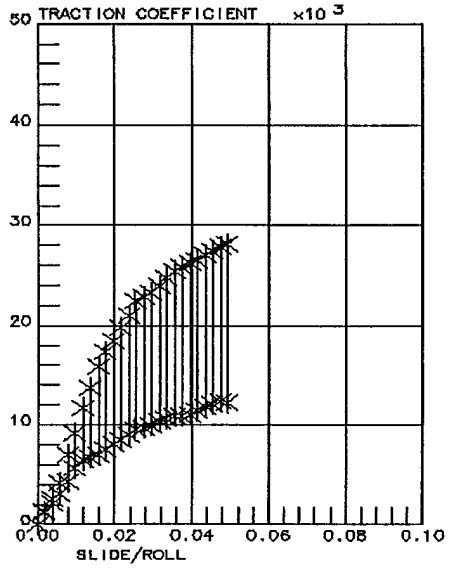
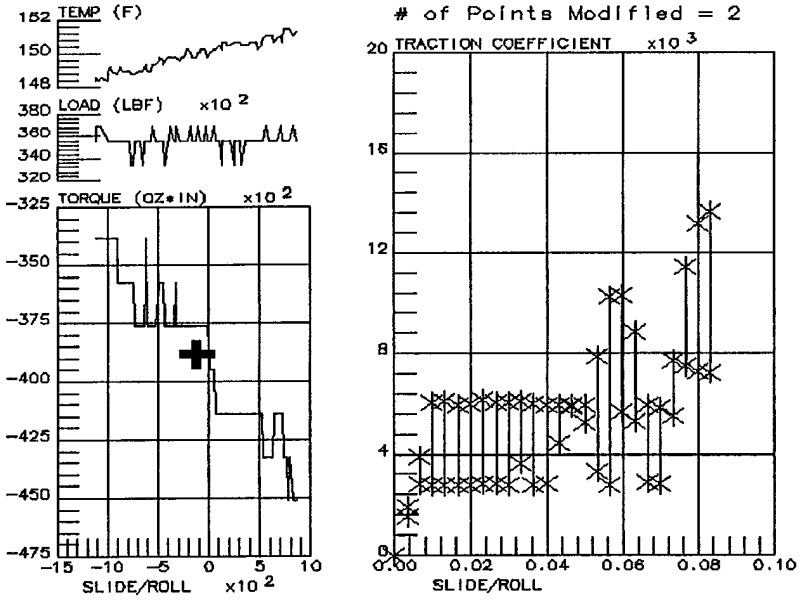


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #103
150F 3LBF 5080RPM 1 FILE: bq150h2



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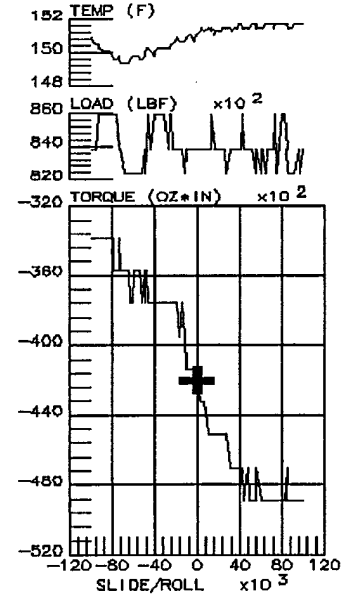
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #104
150F 8LBF 5080RPM 2 FILE: bq150h2



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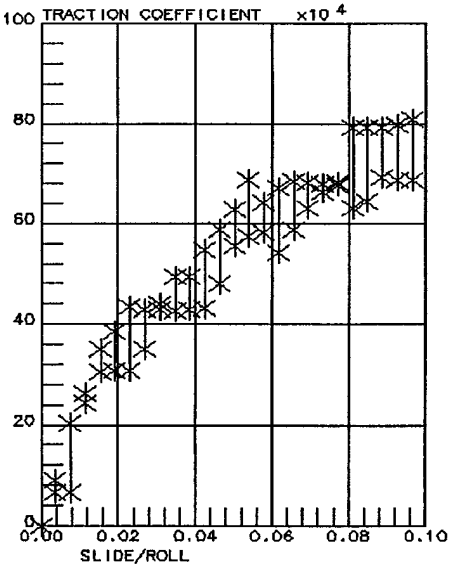
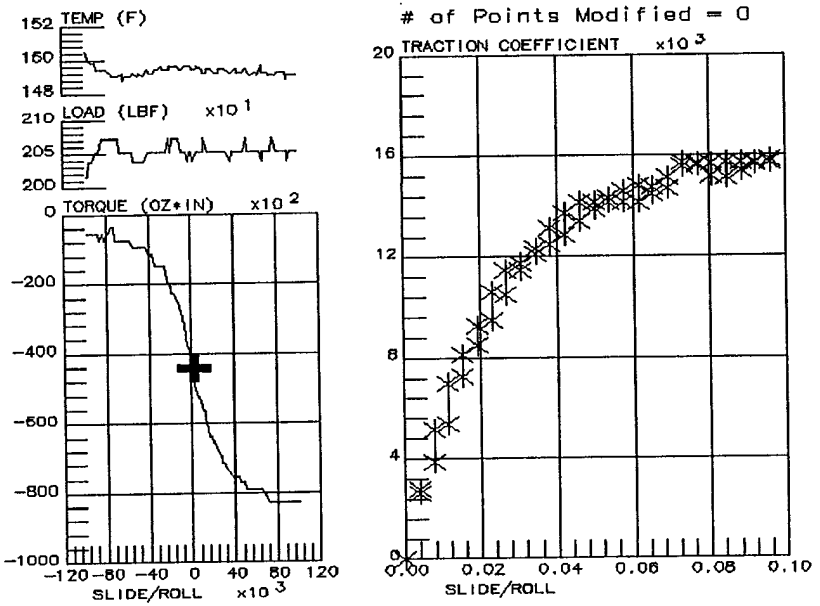
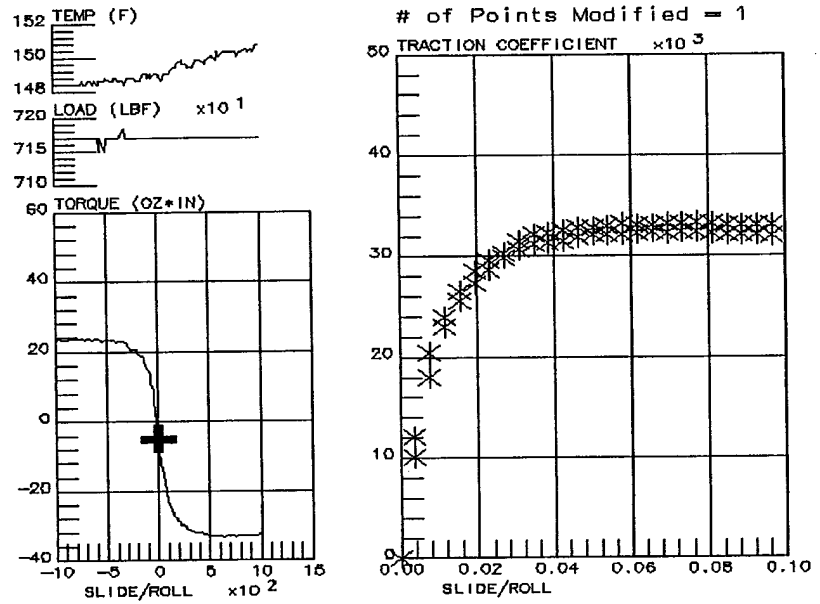


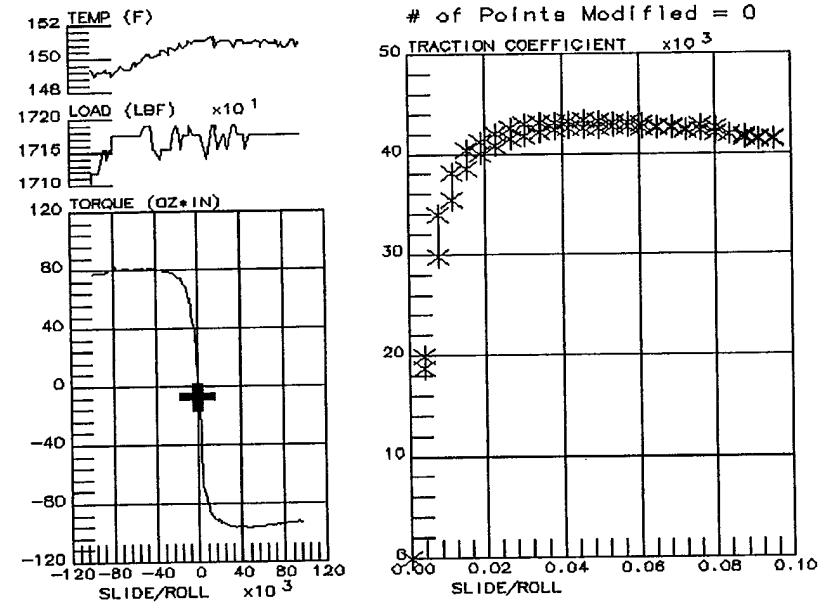
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #105
150F 21LBF 5080RPM 3 FILE: bq150h2



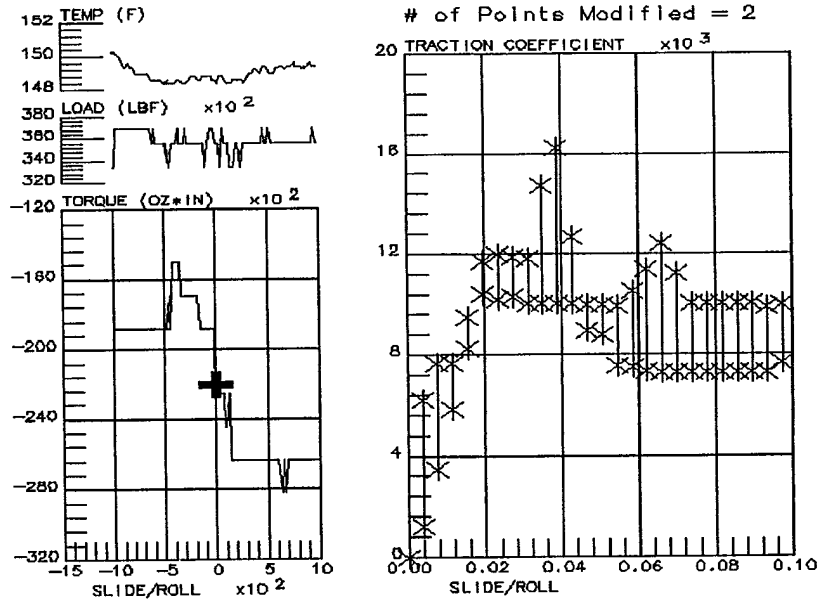
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #106
150F 72LBF 5080RPM 4 FILE: bq150h2



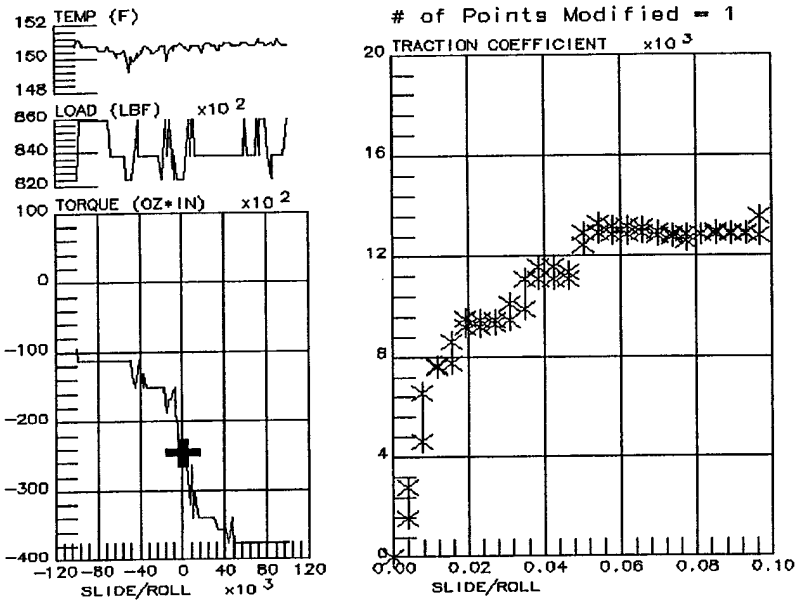
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #107
150F 172LBF 5080RPM 5 FILE: bq150h2



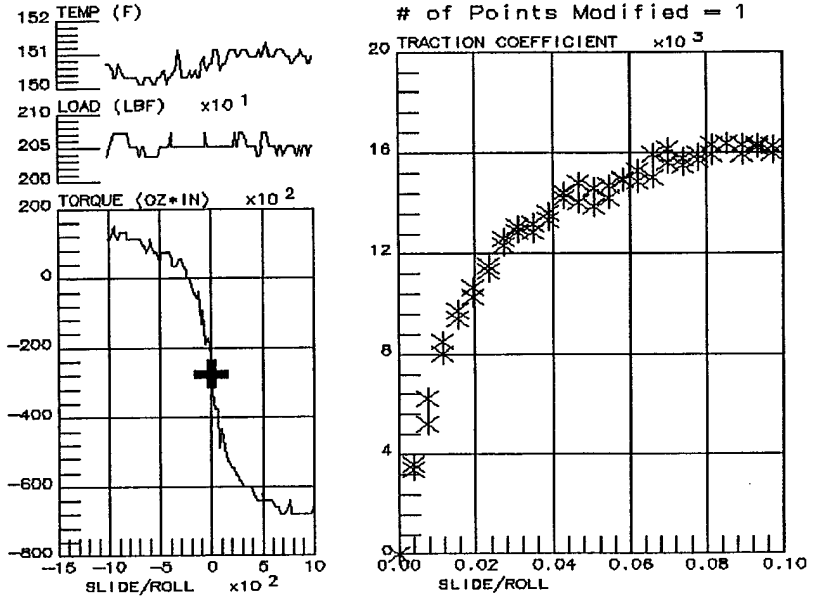
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #108
150F 3LBF 7639RPM 6 FILE: bq150h2



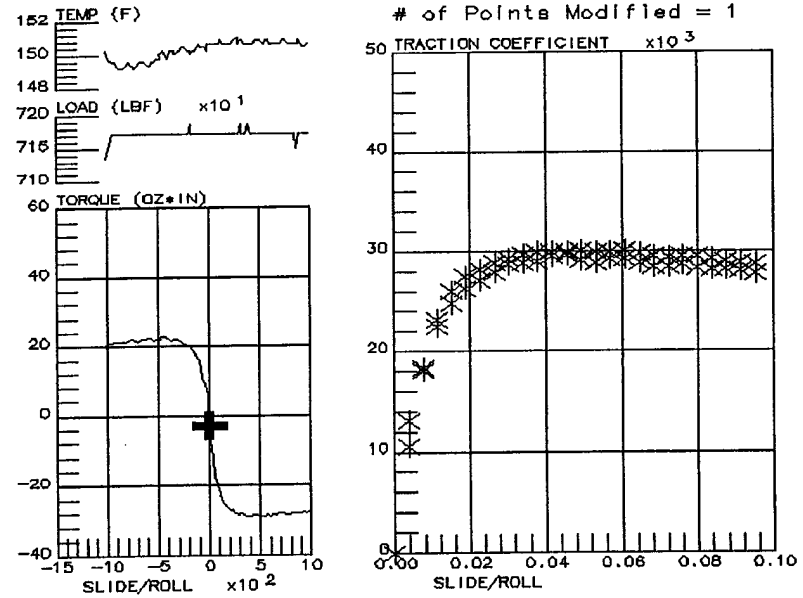
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #109
150F 8LBF 7639RPM 7 FILE: bq150h2



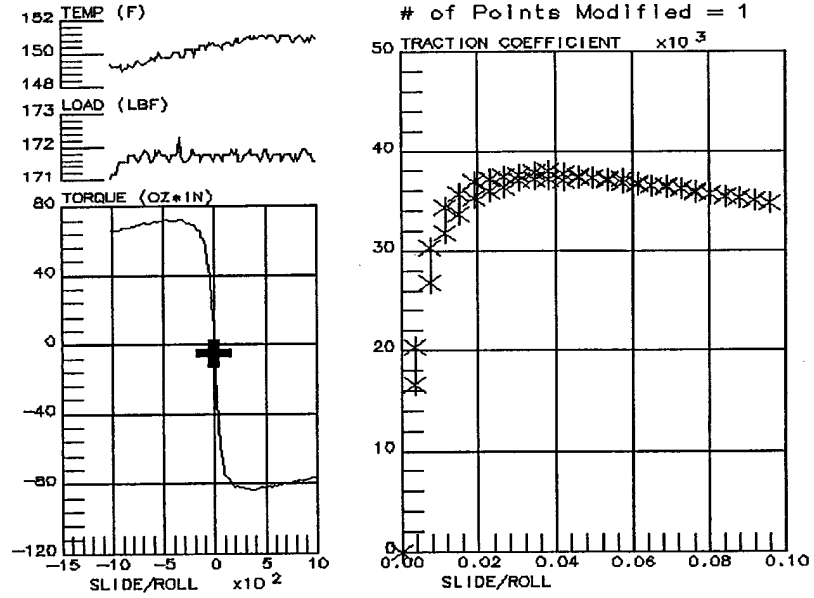
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #110
150F 21LBF 7639RPM 8 FILE: bq150h2



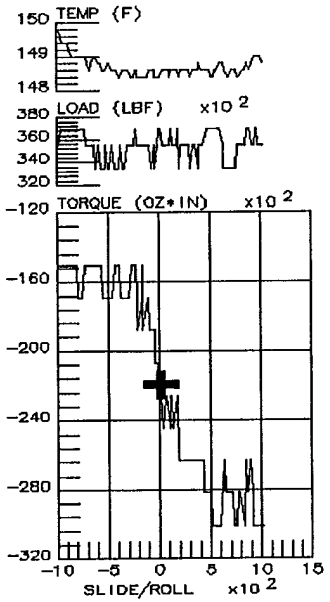
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #111
150F 72LBF 7639RPM 9 FILE: bq150h2



BQ 81-288 ApiezonC+5%Bardhal(VacKote) #112
150F 172LBF 7639RPM 10 FILE: bq150h2



BQ 81-288 ApiezonC+5%Bardhal(VacKote) #113
150F 3LBF 10198RPM 11 FILE: bq150h2



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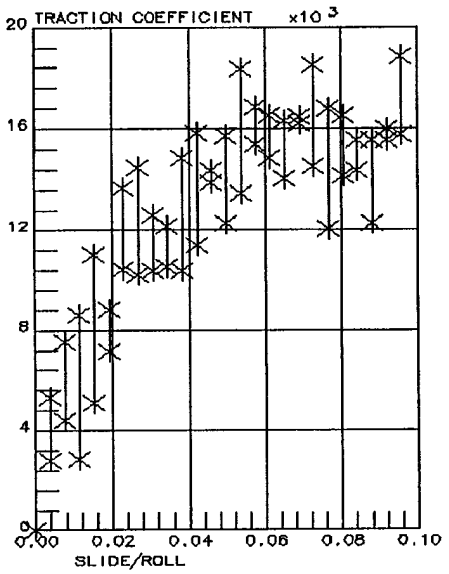
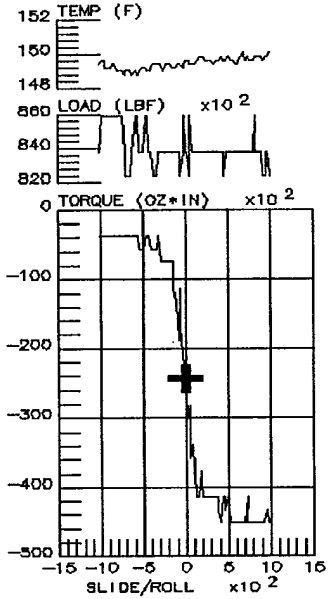


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #114
150F 8LBF 10198RPM 12 FILE: bq150h2



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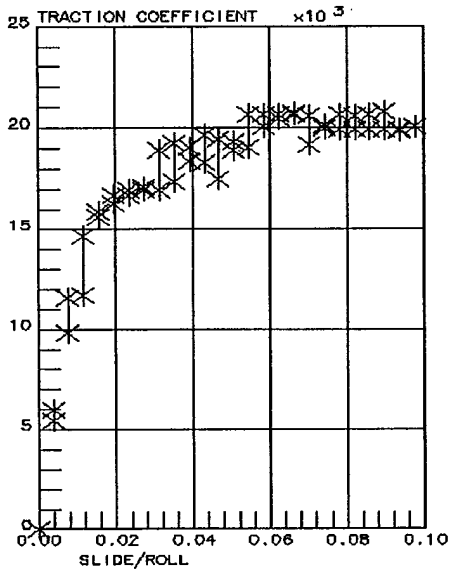
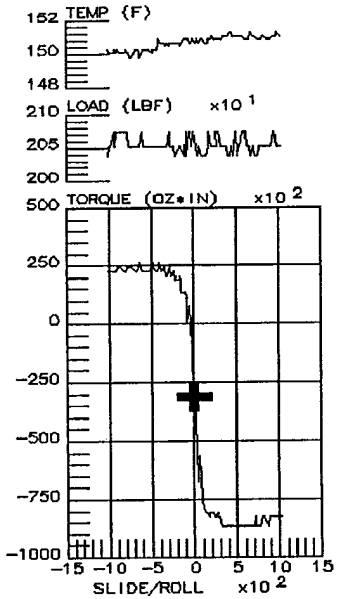


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #115
150F 21LBF 10198RPM 13 FILE: bq150h2



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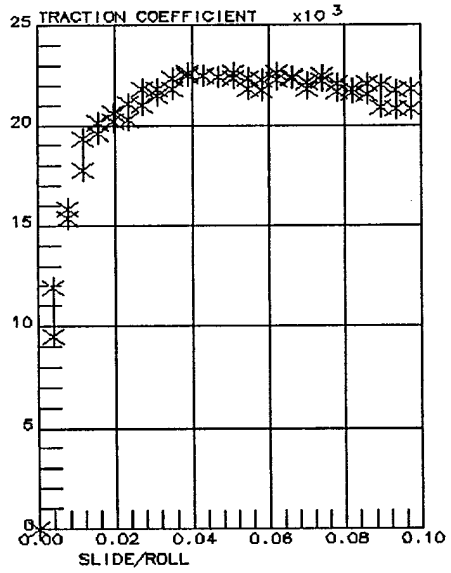
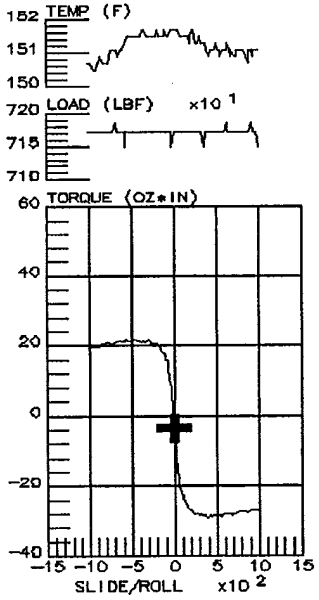


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #116
150F 72LBF 10198RPM 14 FILE: bq150h2



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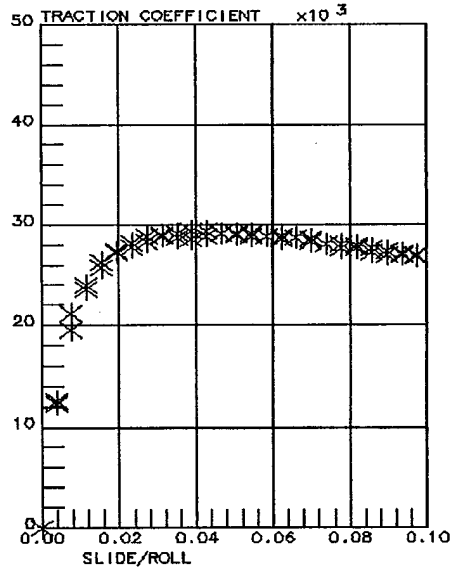
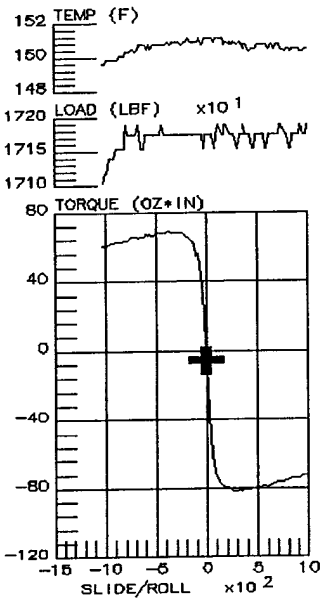


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #117
150F 172LBF 10198RPM 15 FILE: bq150h2



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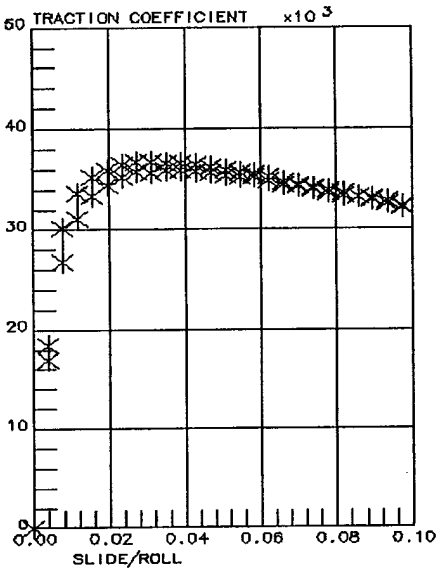
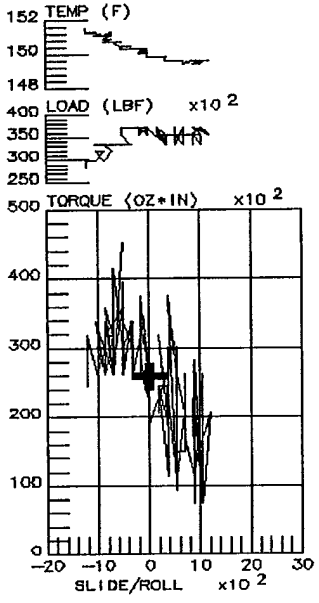


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #118
150F 3LBF 76RPM 1 FILE: bq15012



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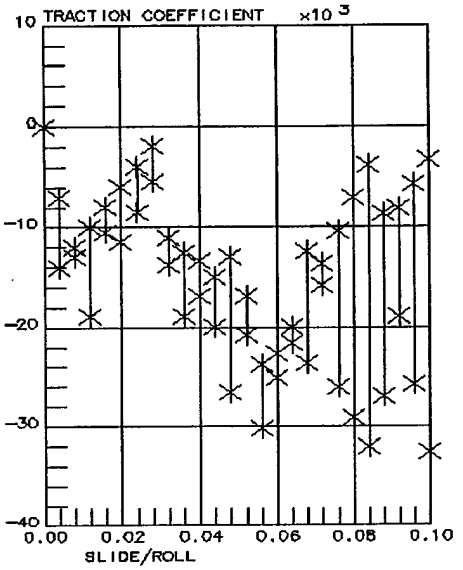
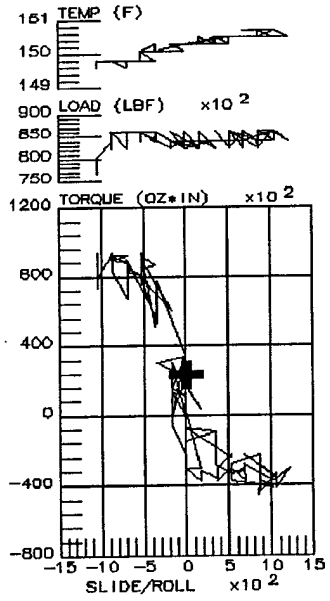


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #119
150F 8LBF 76RPM 2 FILE: bq15012



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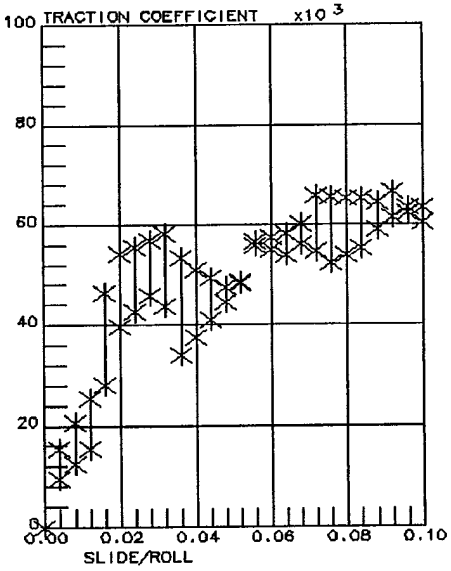
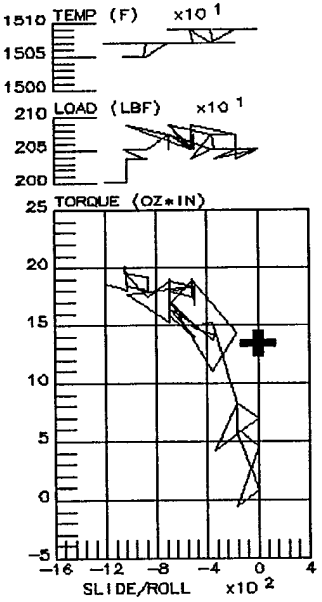


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #120
150F 21LBF 76RPM 3 FILE: bq15012



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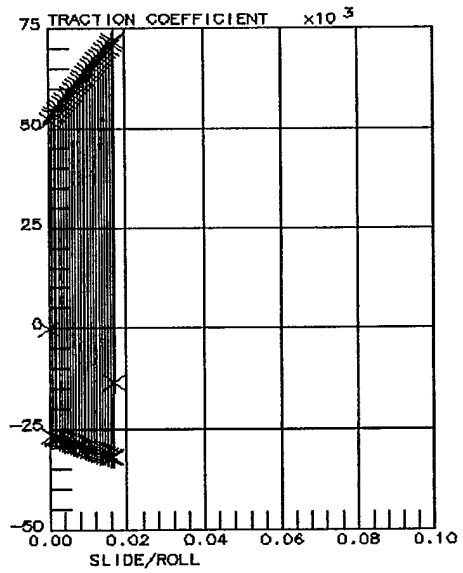
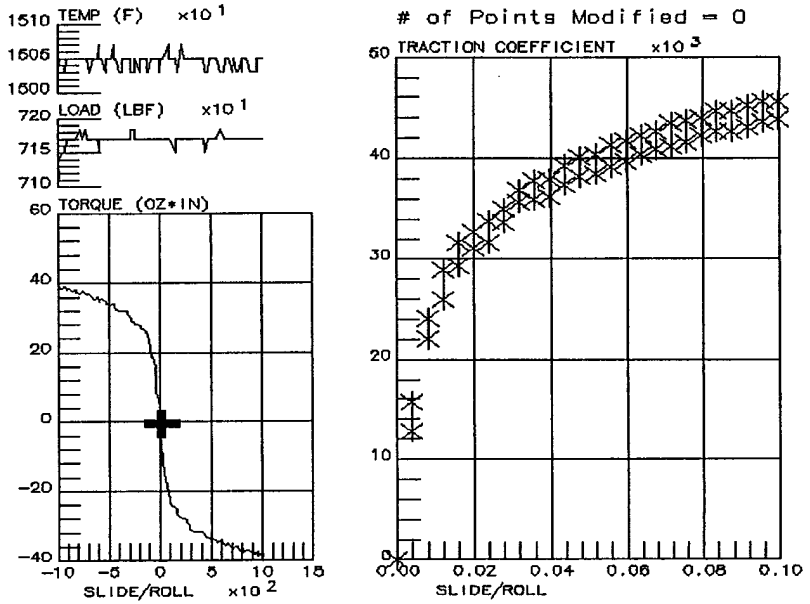
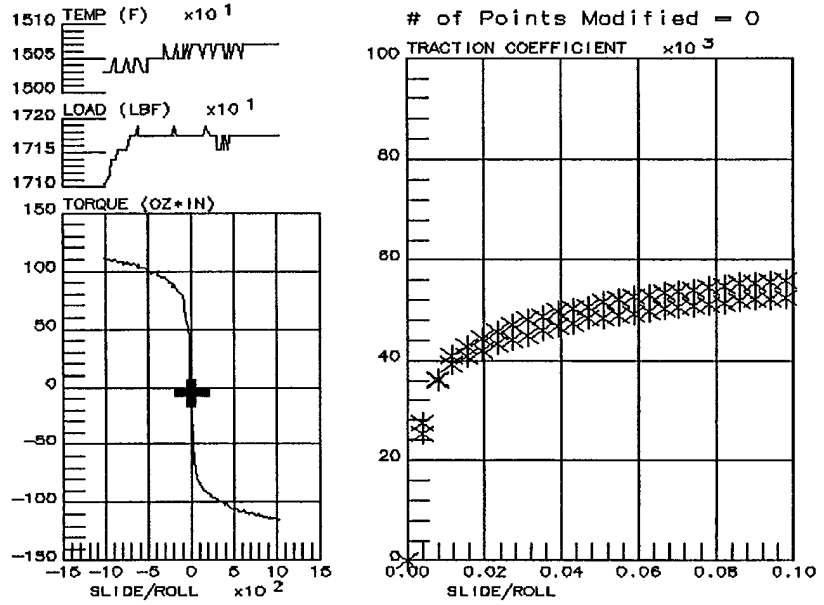


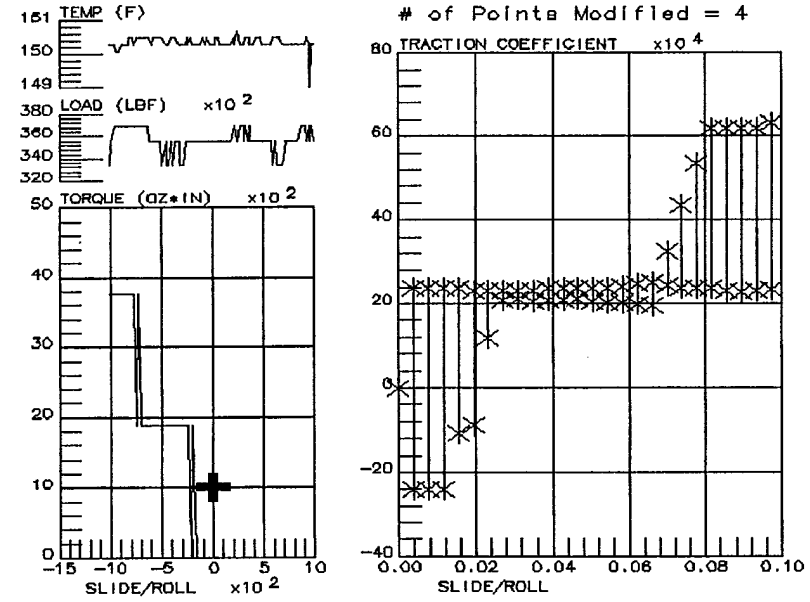
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #121
150F 72LBF 650RPM 19 FILE: bq15012



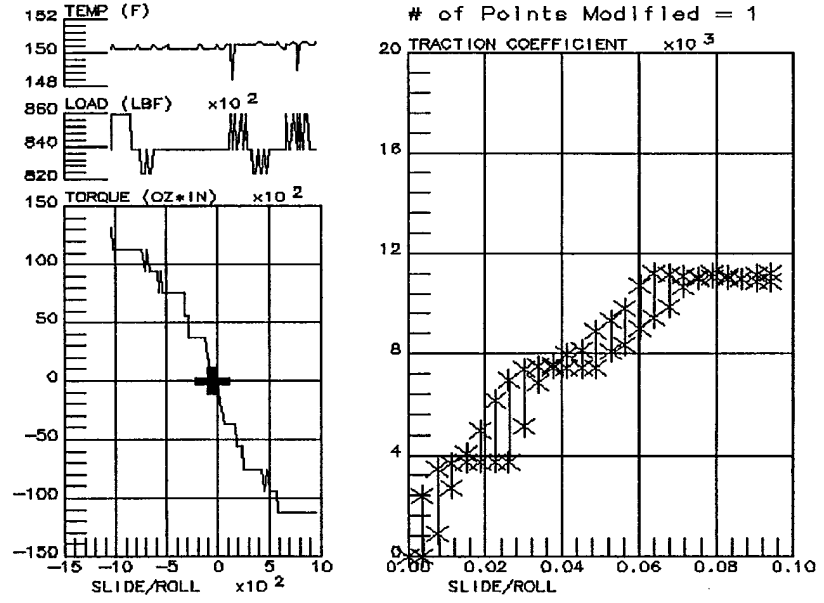
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #122
150F 172LBF 650RPM 20 FILE: bq15012



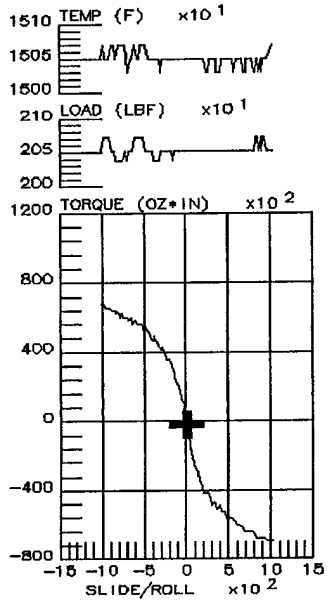
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #123
150F 3LBF 1260RPM 21 FILE: bq15012

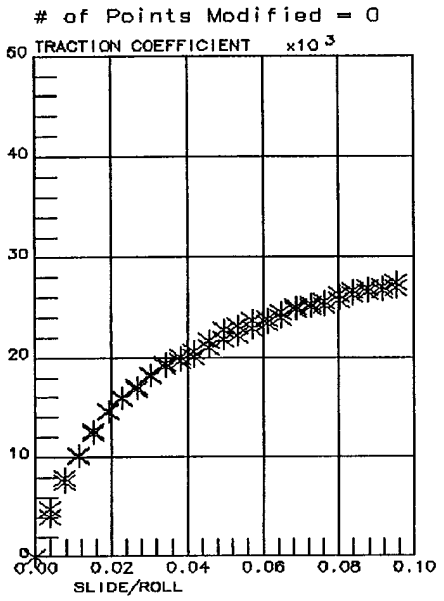


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #124
150F 8LBF 1260RPM 22 FILE: bq15012

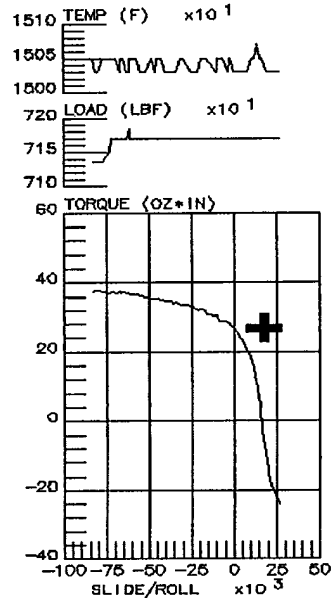


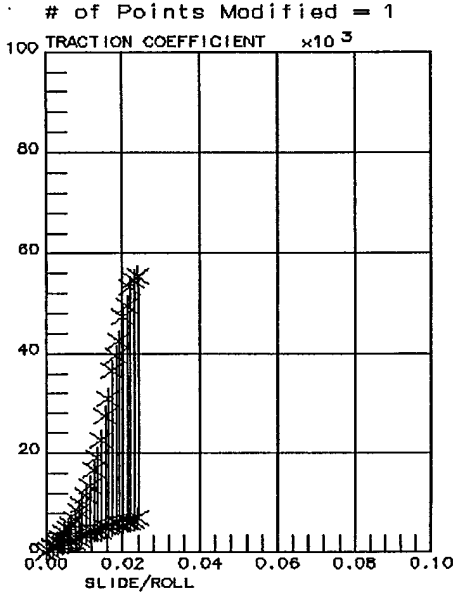
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #125
150F 21LBF 1260RPM 23 FILE: bq15012



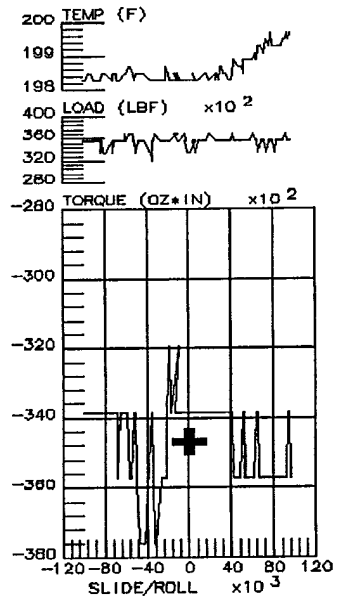


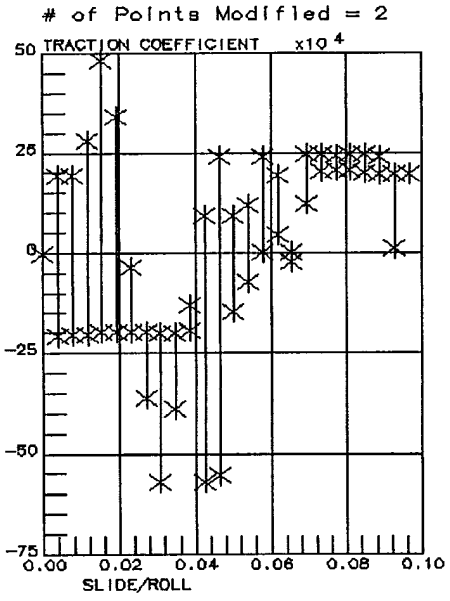
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #126
150F 72LBF 1260RPM 24 FILE: bq15012



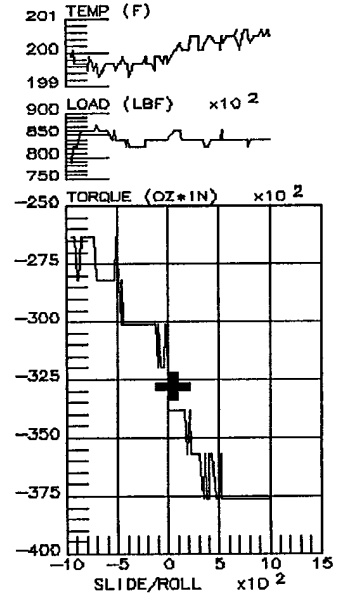


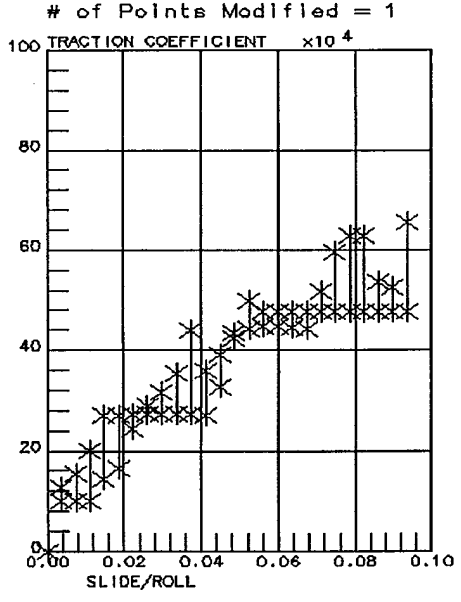
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #127
200F 3LBF 5080RPM 1 FILE: bq200h2



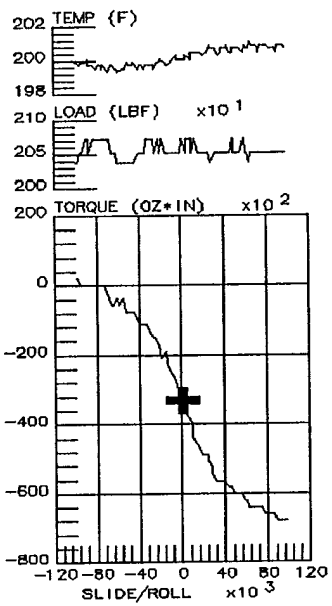


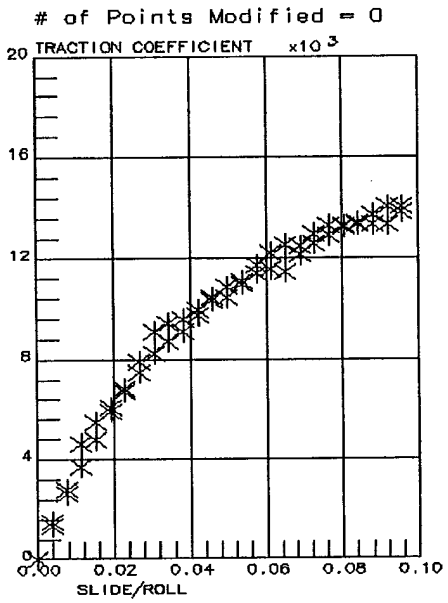
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #128
200F 8LBF 5080RPM 2 FILE: bq200h2



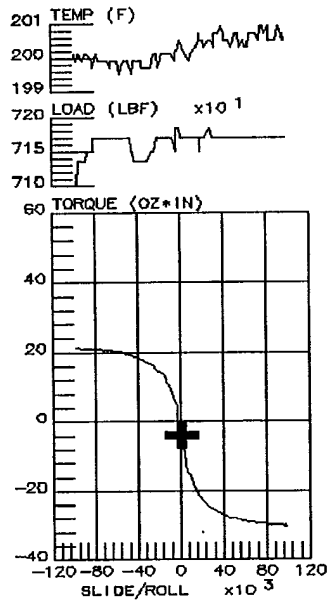


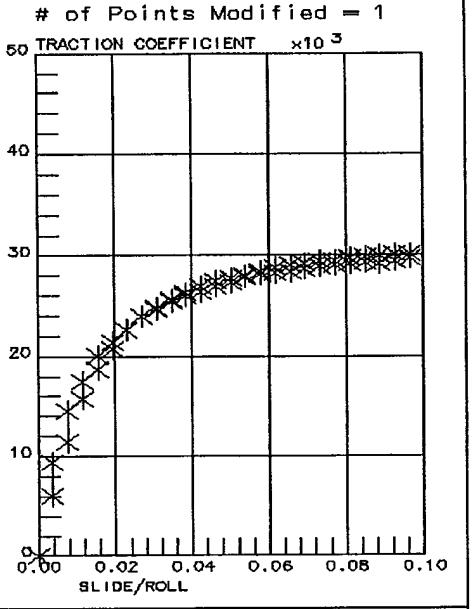
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #129
200F 21LBF 5080RPM 3 FILE: bq200h2



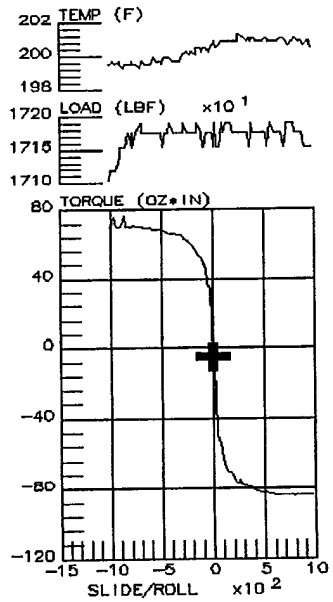


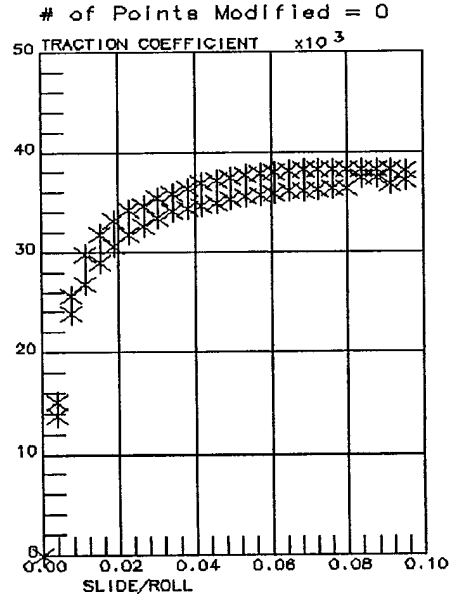
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #130
200F 72LBF 5080RPM 4 FILE: bq200h2



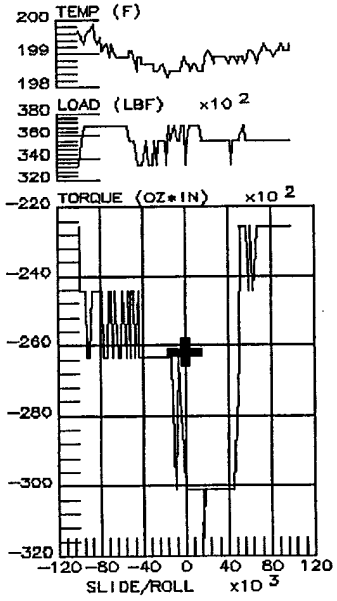


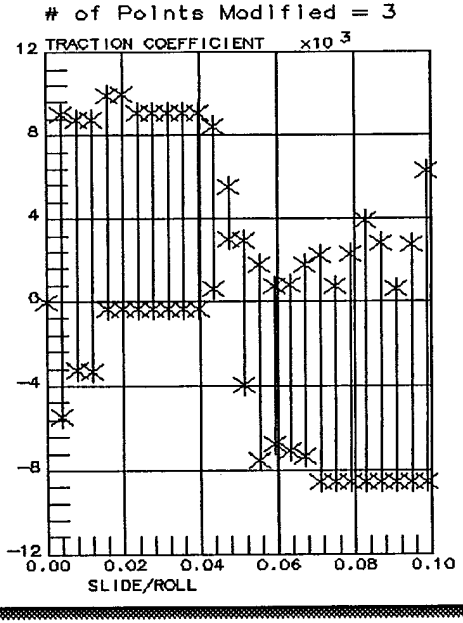
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #131
200F 172LBF 5080RPM 5 FILE: bq200h2



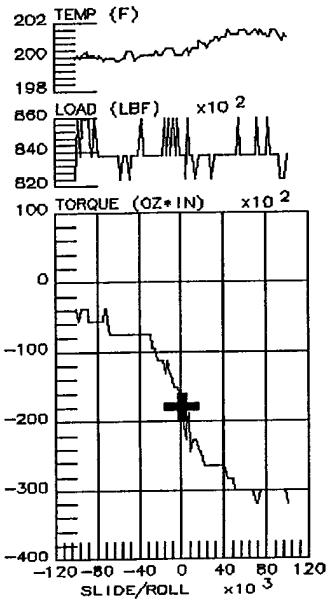


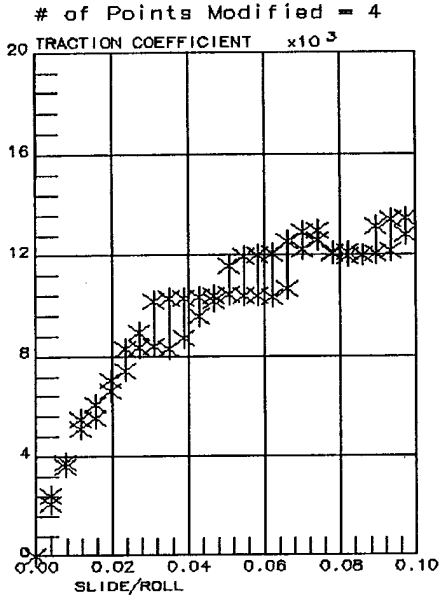
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #132
200F 3LBF 7639RPM 6 FILE: bq200h2



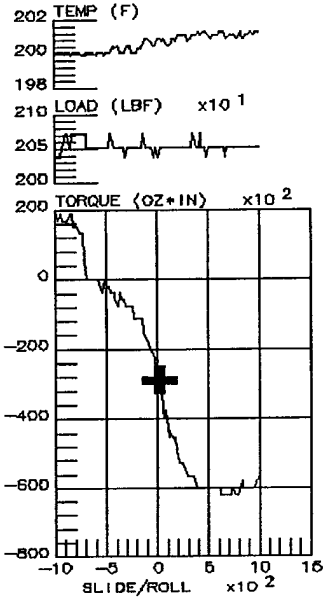


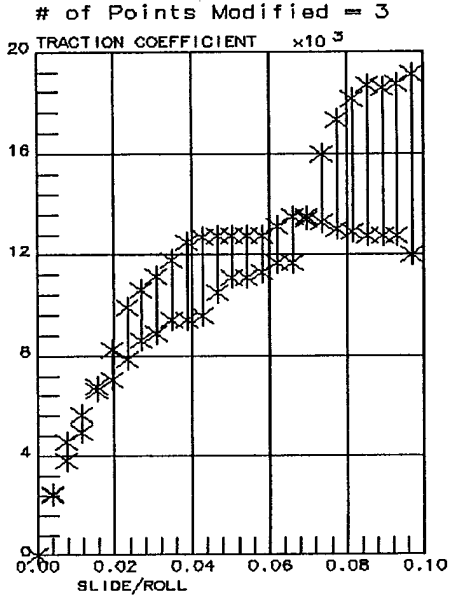
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #133
200F 8LBF 7639RPM 7 FILE: bq200h2



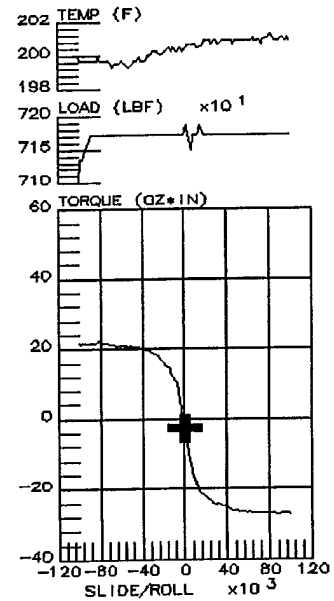


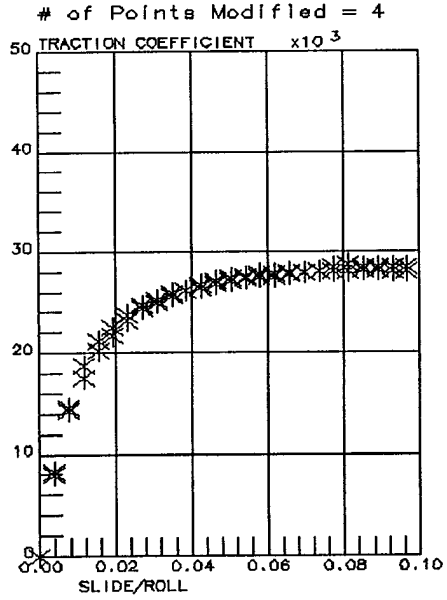
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #134
200F 21LBF 7639RPM 8 FILE: bq200h2



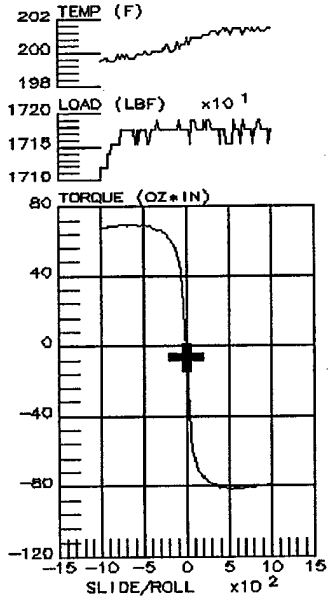


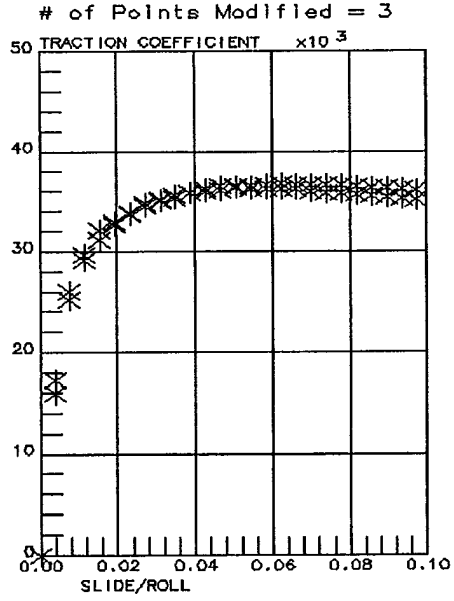
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #135
200F 72LBF 7639RPM 9 FILE: bq200h2



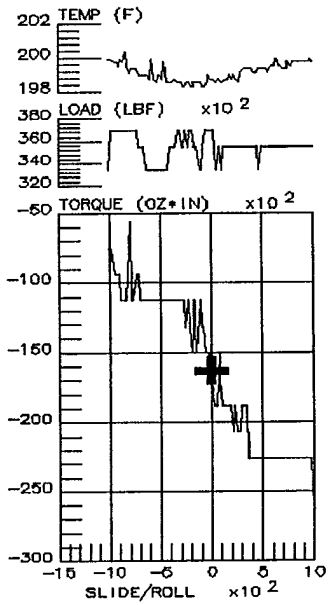


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #136
200F 172LBF 7639RPM 10 FILE: bq200h2





BQ 81-288 ApiezonC+5%Bardhal(VacKote) #137
200F 3LBF 10198RPM 11 FILE: bq200h2



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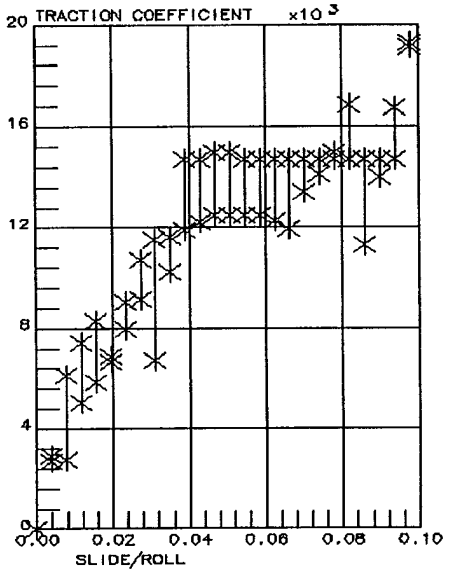
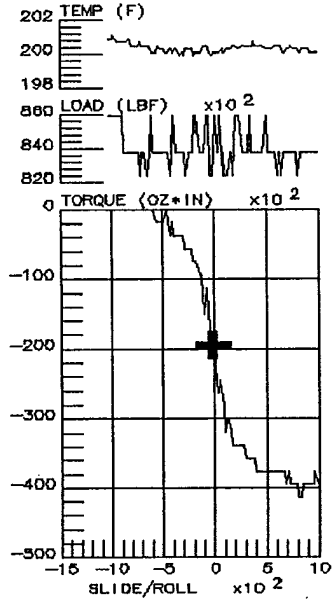


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #138
200F 8LBF 10198RPM 12 FILE: bq200h2



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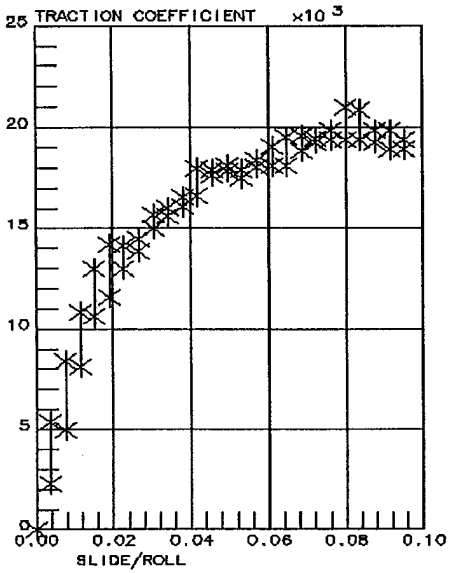
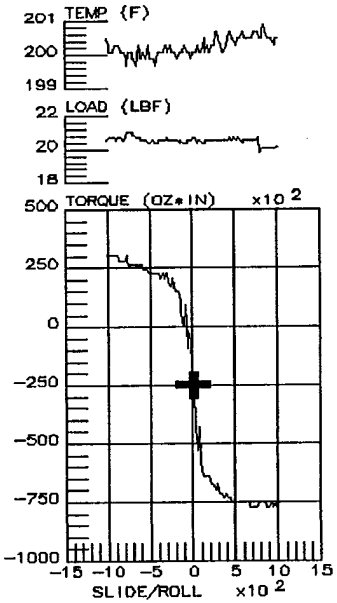


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #139
200F 21LBF 10198RPM 13 FILE: bq200h2



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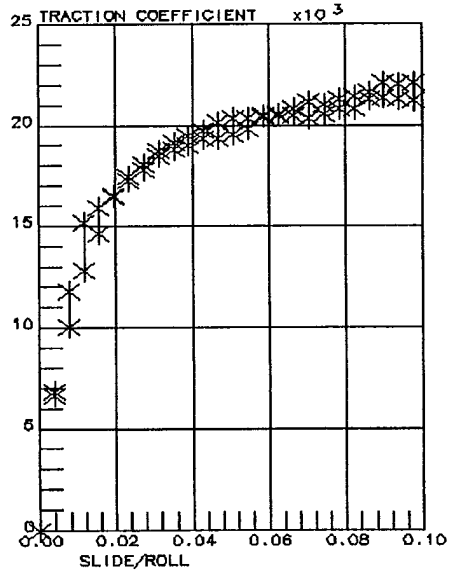
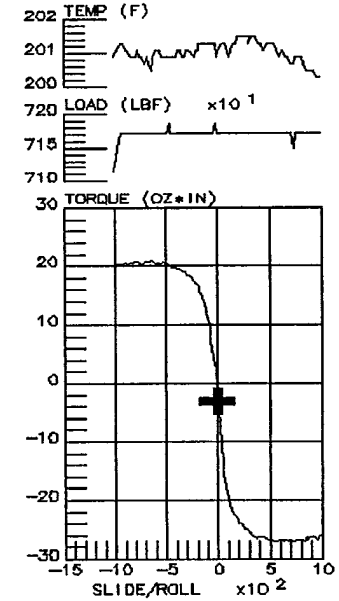


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #140
200F 72LBF 10198RPM 14 FILE: bq200h2



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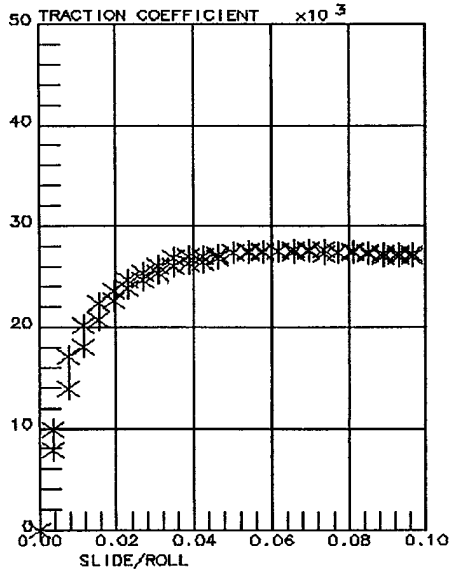
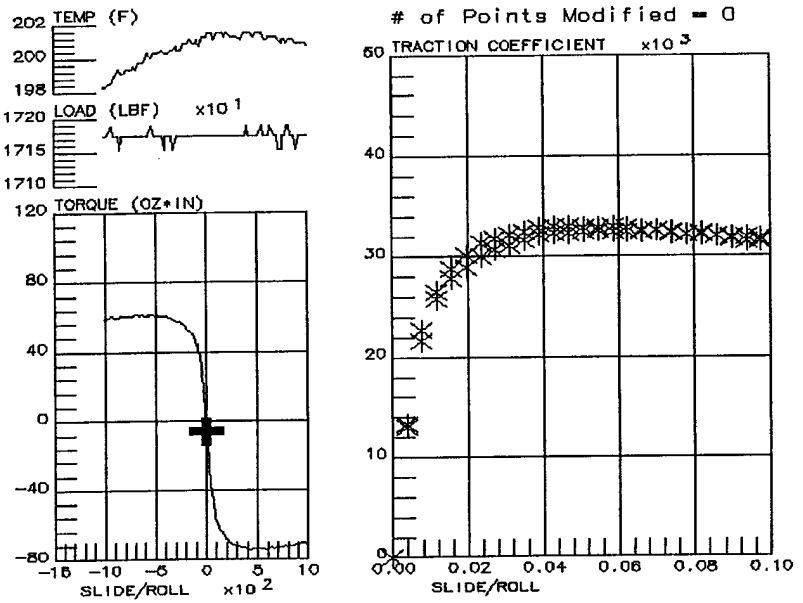
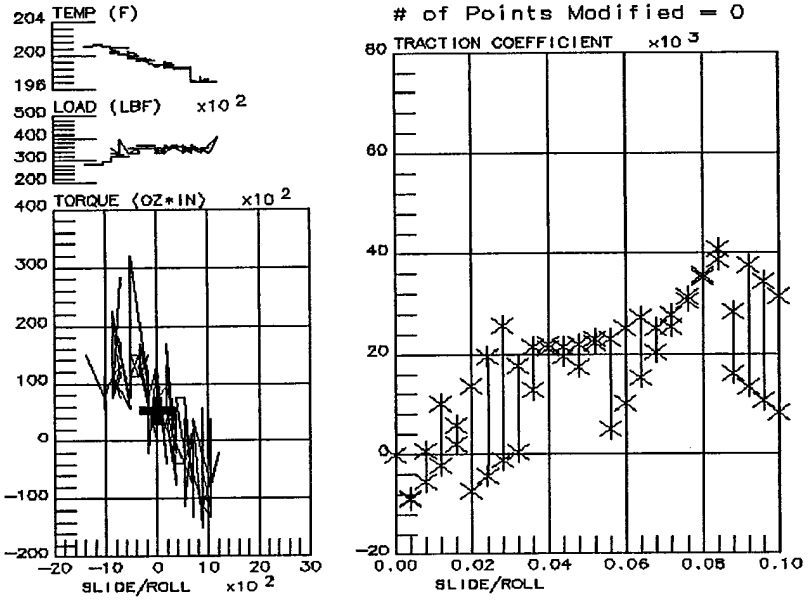


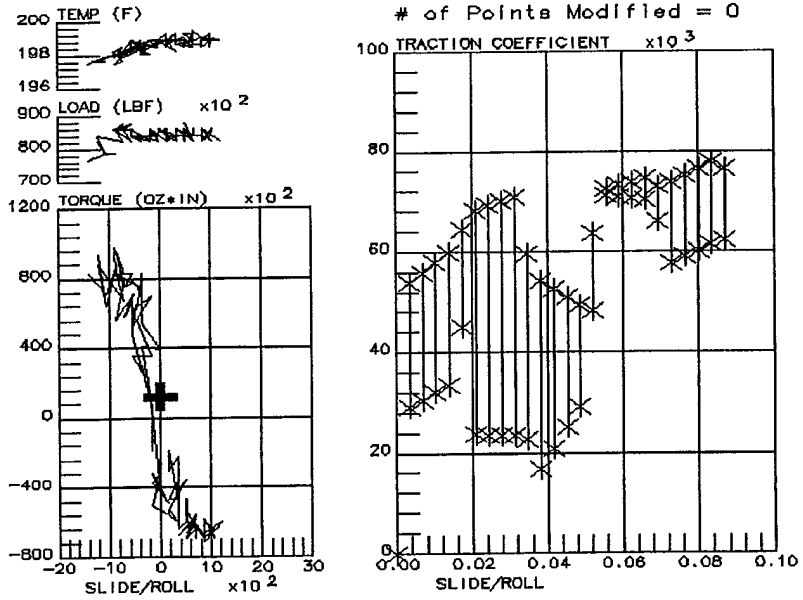
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #141
200F 172LBF 10198RPM 15 FILE: bq200h2



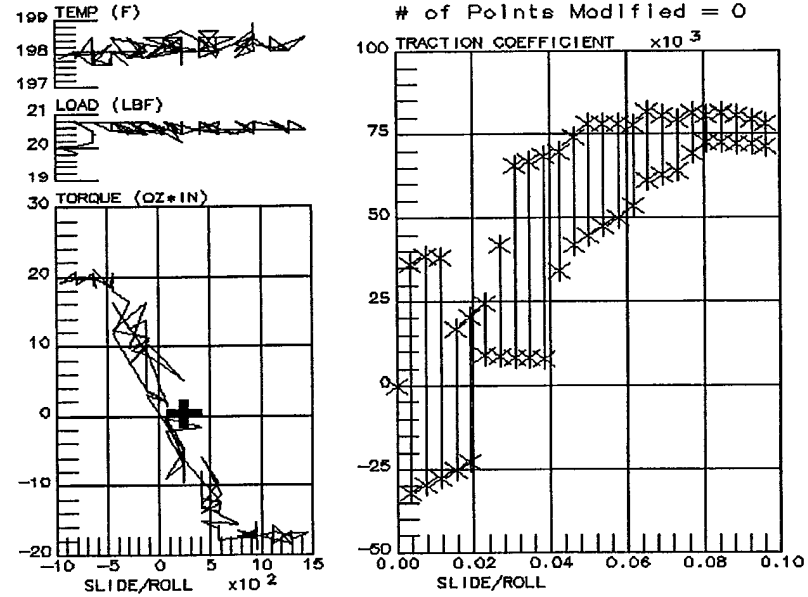
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #142
200F 3LBF 76RPM 1 FILE: bq20012



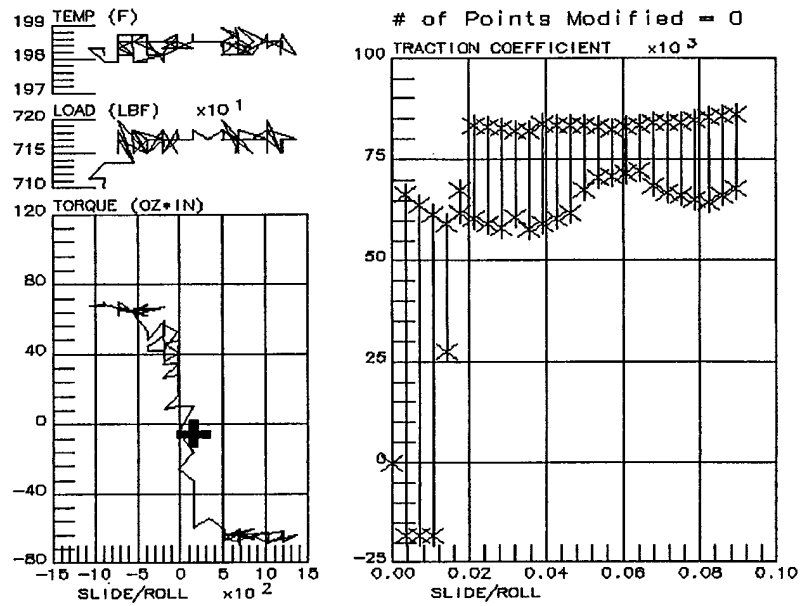
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #143
200F 8LBF 76RPM 2 FILE: bq20012



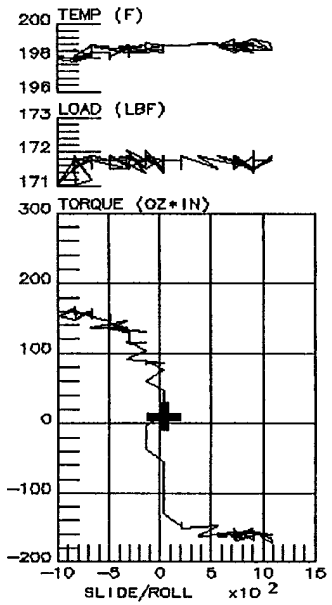
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #144
200F 21LBF 76RPM 3 FILE: bq20012

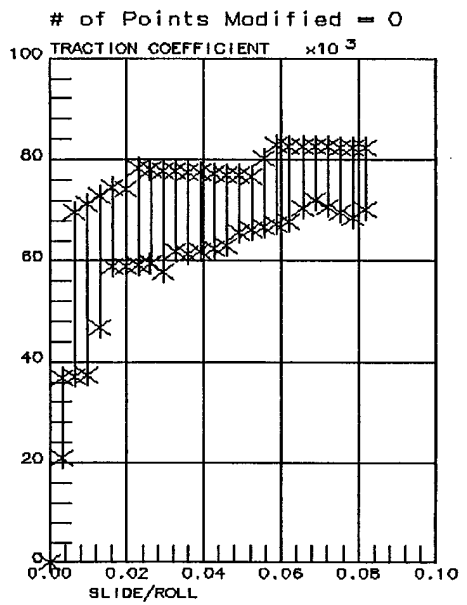


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #145
200F 72LBF 76RPM 4 FILE: bq20012

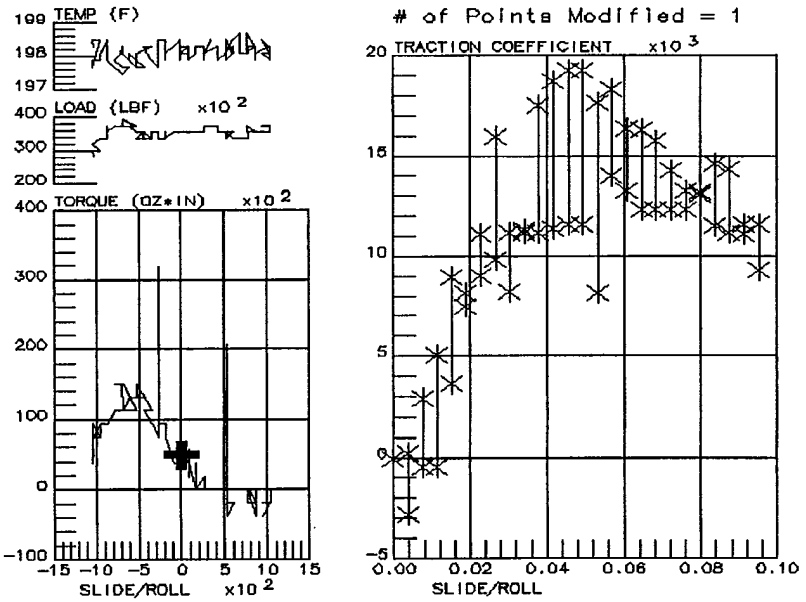


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #146
200F 172LBF 76RPM 5 FILE: bq20012

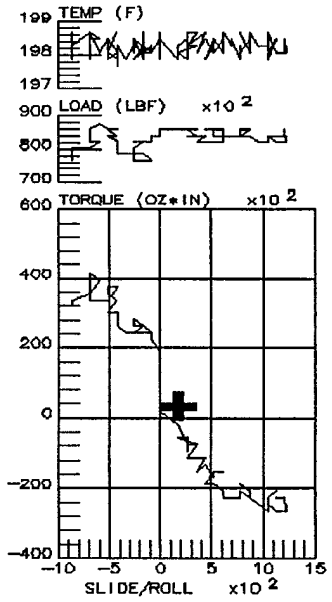


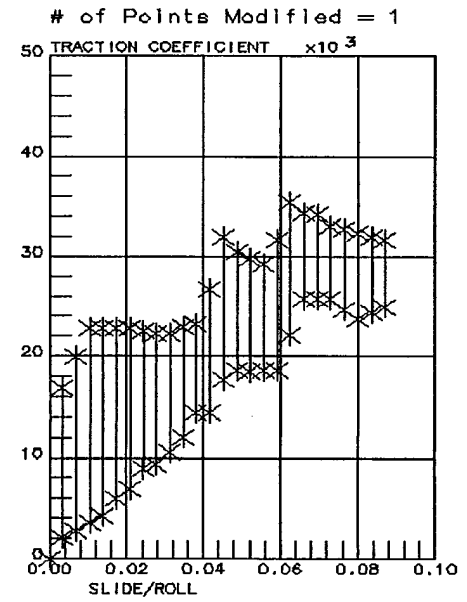


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #147
200F 3LBF 152RPM 6 FILE: bq20012

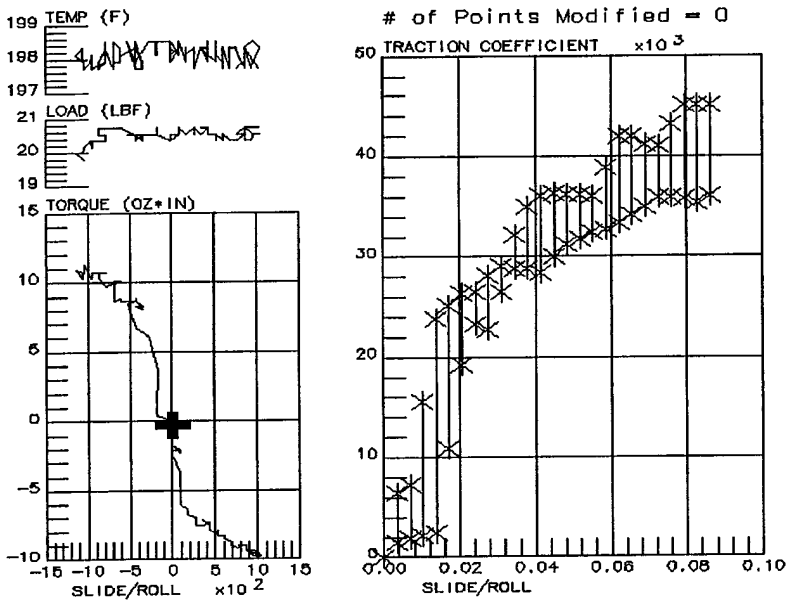


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #148
200F 8LBF 152RPM 7 FILE: bq20012

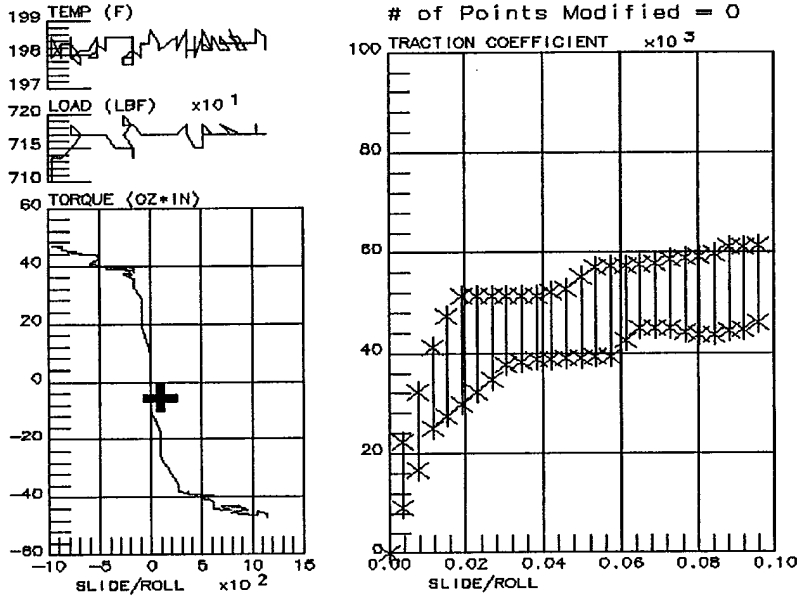




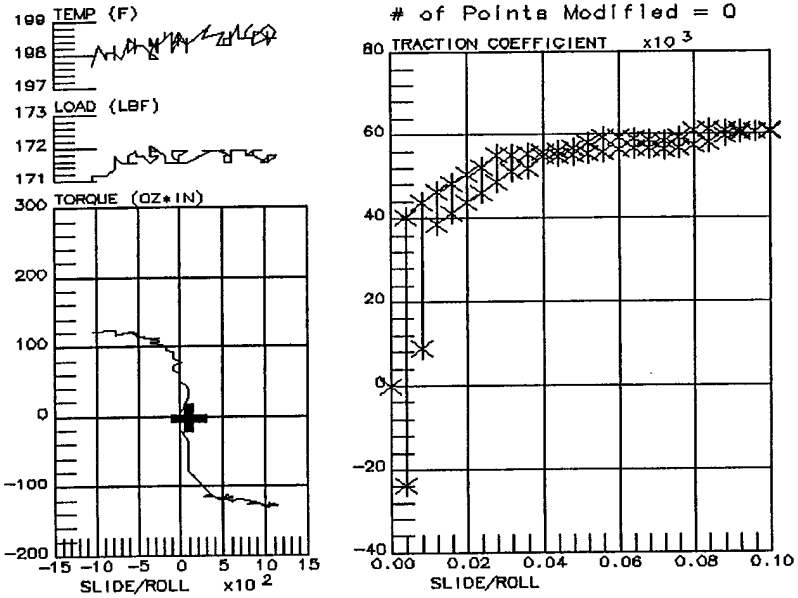
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #149
200F 21LBF 152RPM 8 FILE: bq20012



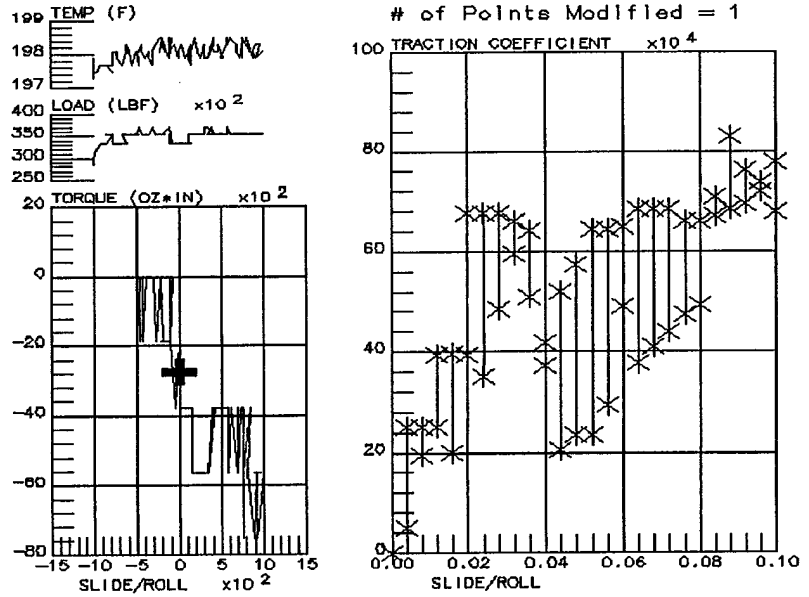
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #150
200F 72LBF 152RPM 9 FILE: bq20012



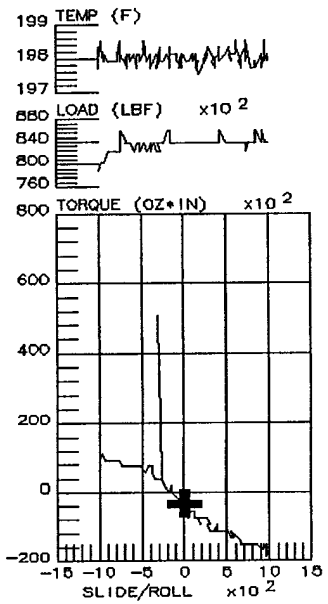
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #151
200F 172LBF 152RPM 10 FILE: bq20012



BQ 81-288 ApiezonC+5%Bardhal(VacKote) #152
200F 3LBF 343RPM 11 FILE: bq20012



BQ 81-288 ApiezonC+5%Bardhal(VacKote) #153
200F 8LBF 343RPM 12 FILE: bq20012



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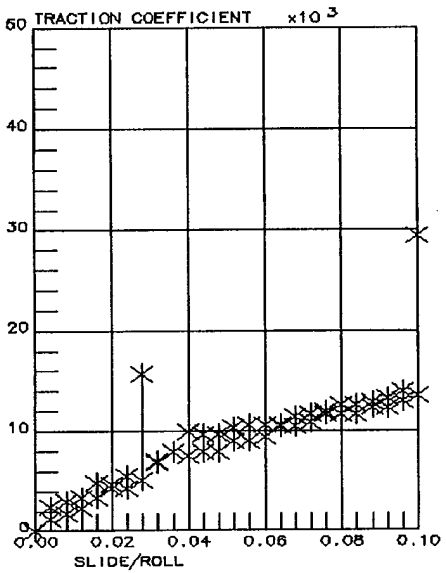
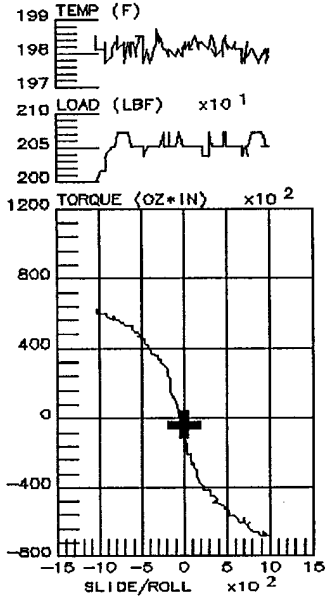


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #154
200F 21LBF 343RPM 13 FILE: bq20012



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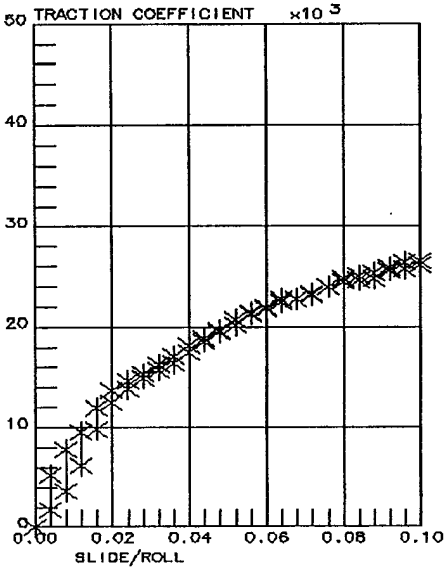
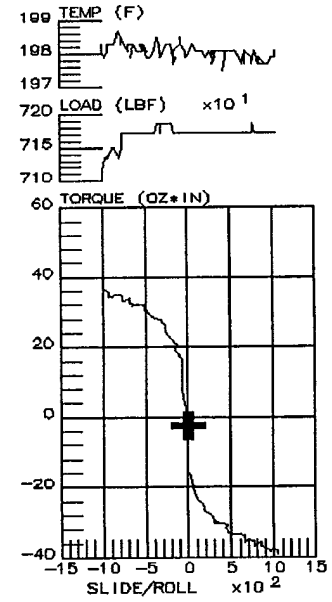


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #155
200F 72LBF 343RPM 14 FILE: bq20012



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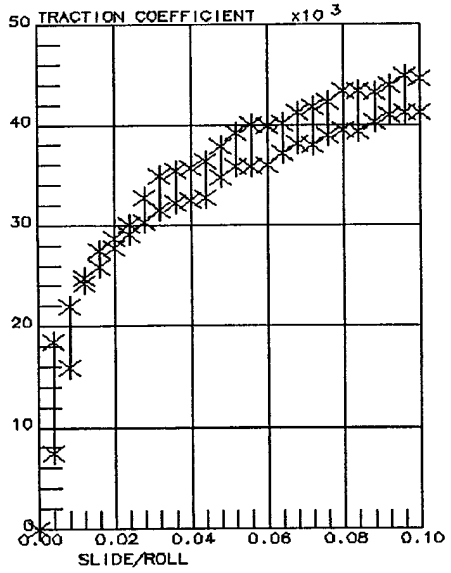
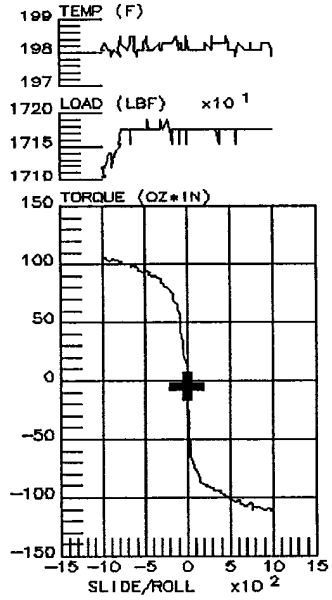


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #156
200F 172LBF 343RPM 15 FILE: bq20012



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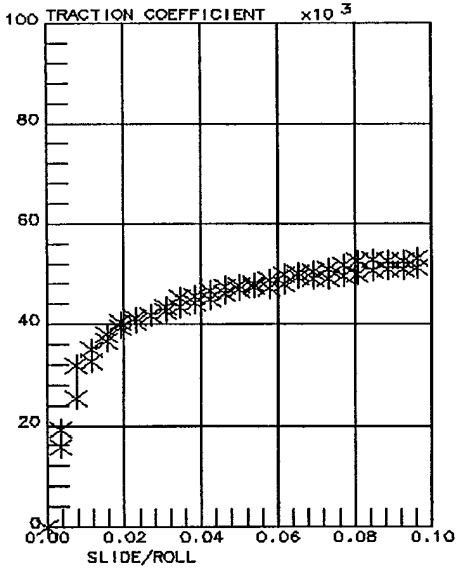
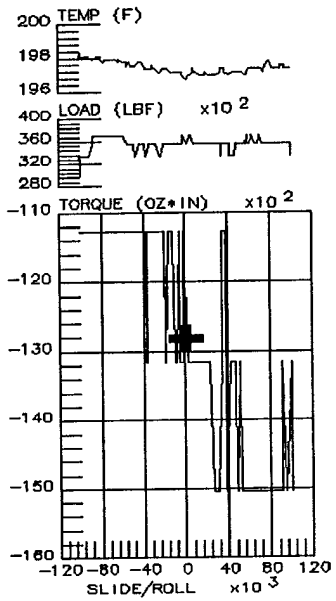


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #157
200F 3LBF 650RPM 16 FILE: bq20012



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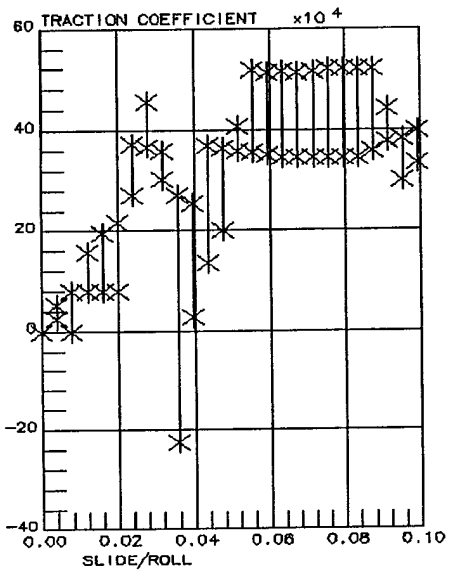
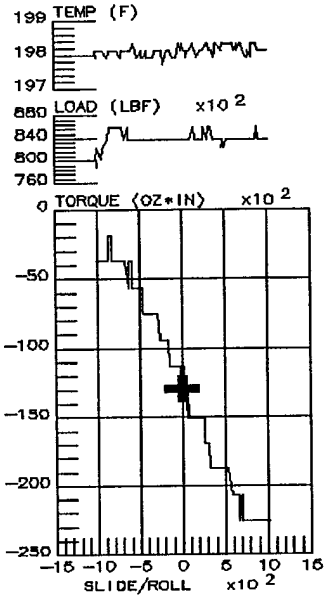


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #158
200F 8LBF 650RPM 17 FILE: bq20012



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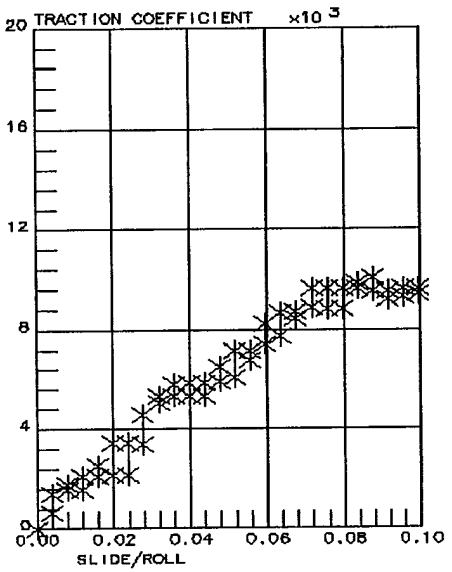
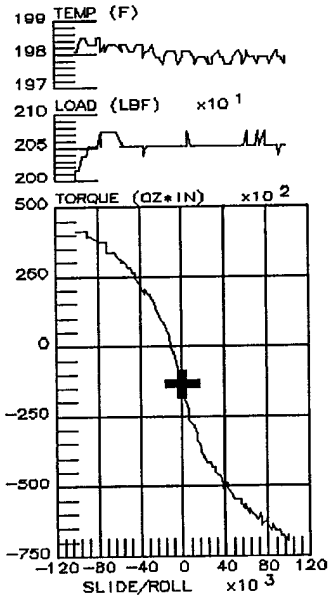


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #159
200F 21LBF 650RPM 18 FILE: bq20012



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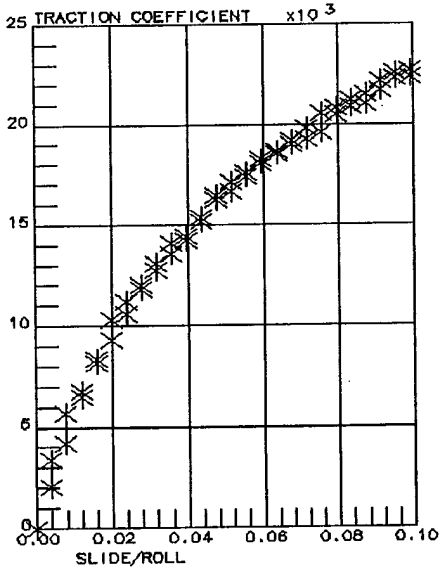
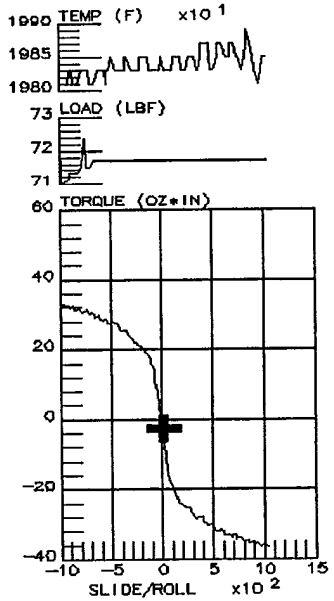


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #160
200F 72LBF 650RPM 19 FILE: bq20012



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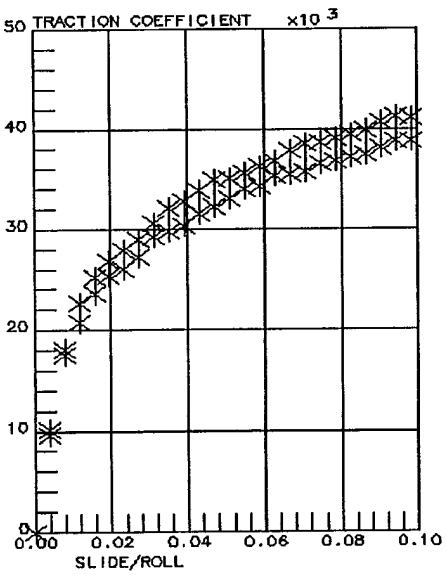
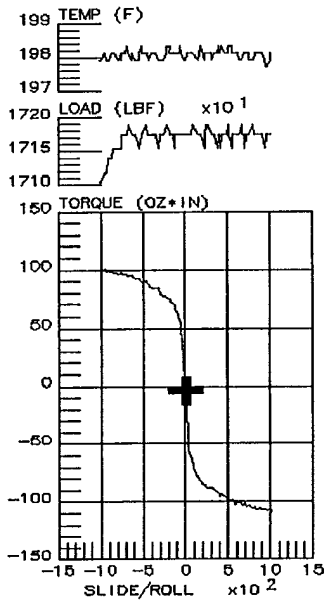
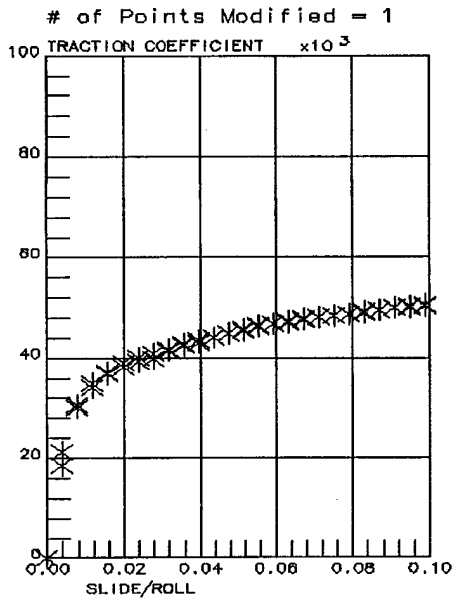
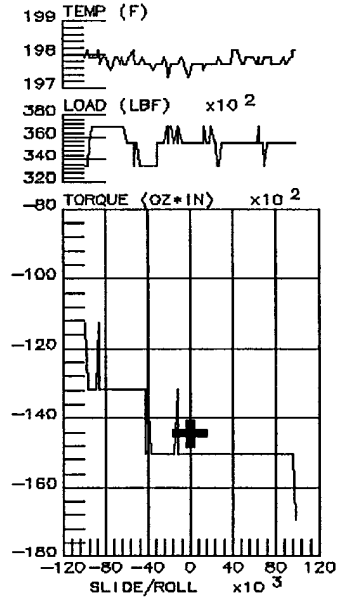


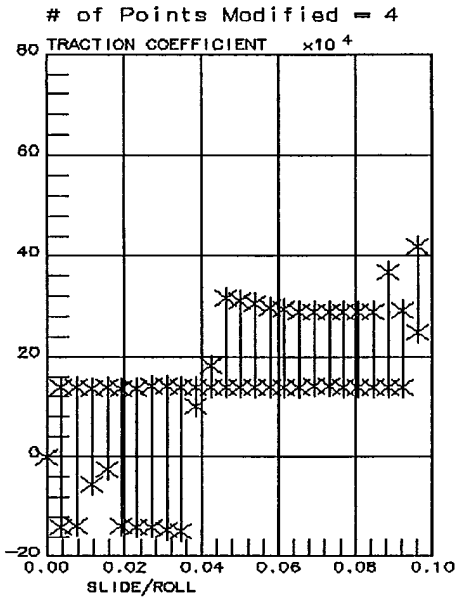
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #161
200F 172LBF 650RPM 20 FILE: bq20012



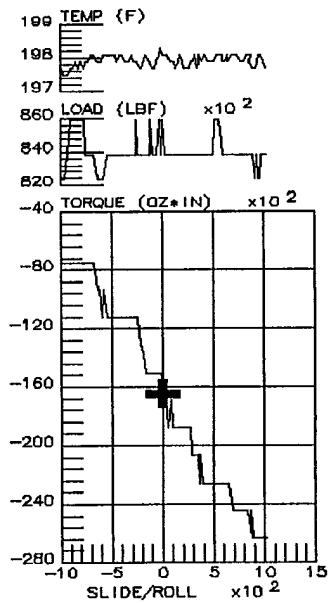


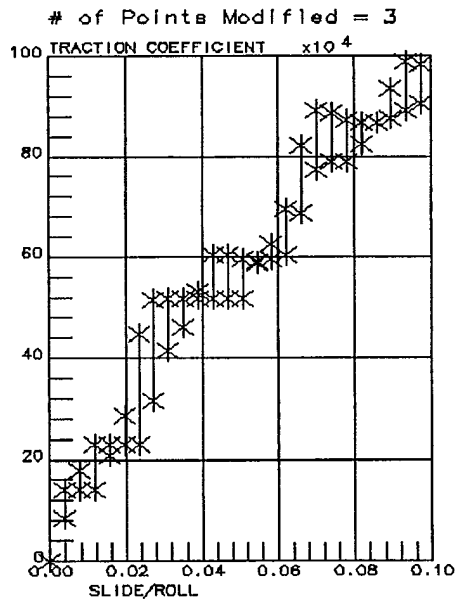
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #162
200F 3LBF 1260RPM 21 FILE: bq20012



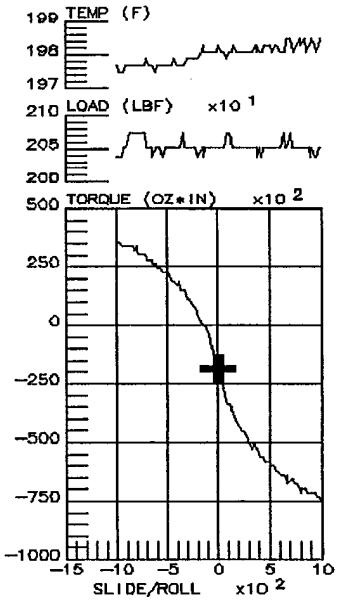


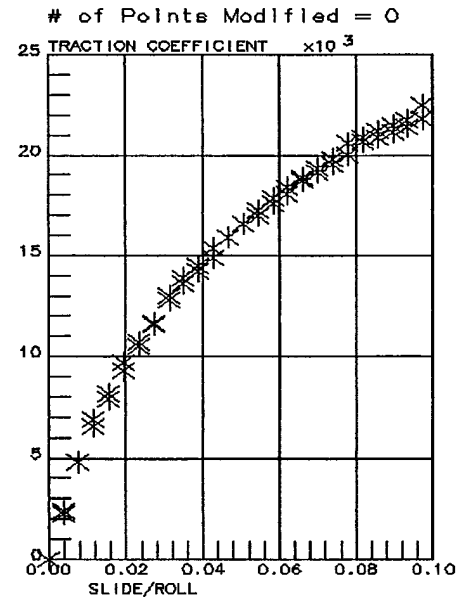
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #163
200F 8LBF 1260RPM 22 FILE: bq20012



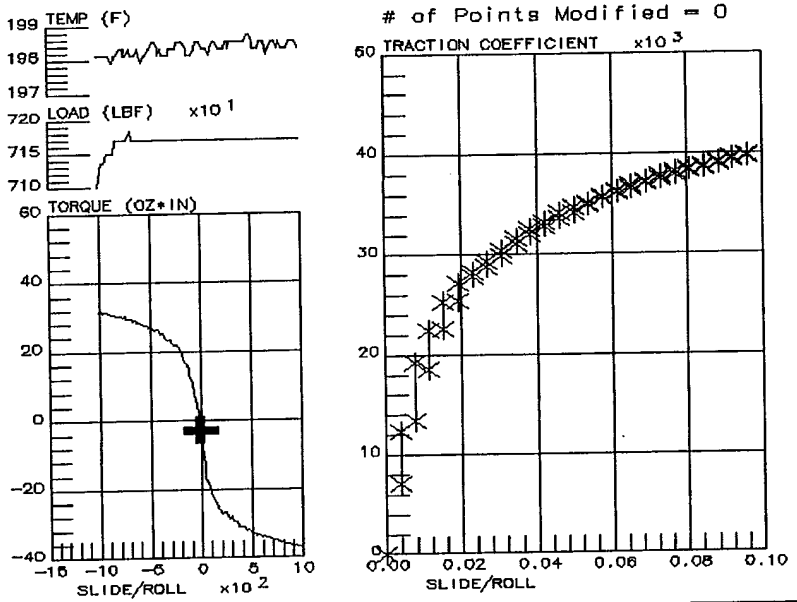


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #164
200F 21LBF 1260RPM 23 FILE: bq20012

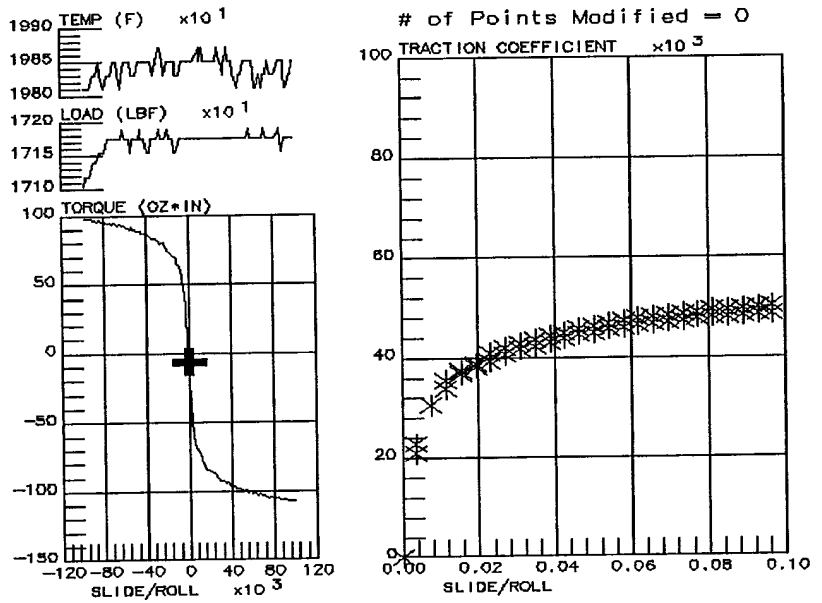




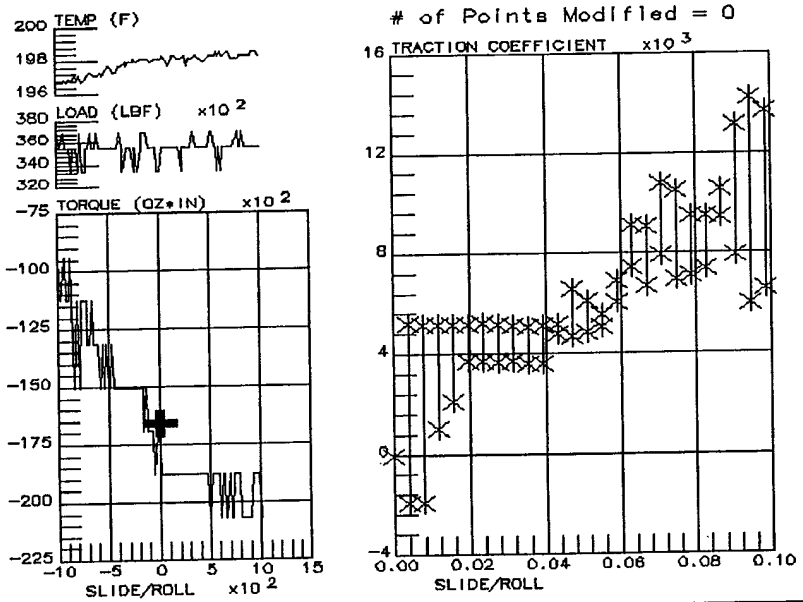
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #165
200F 72LBF 1260RPM 24 FILE: bq20012



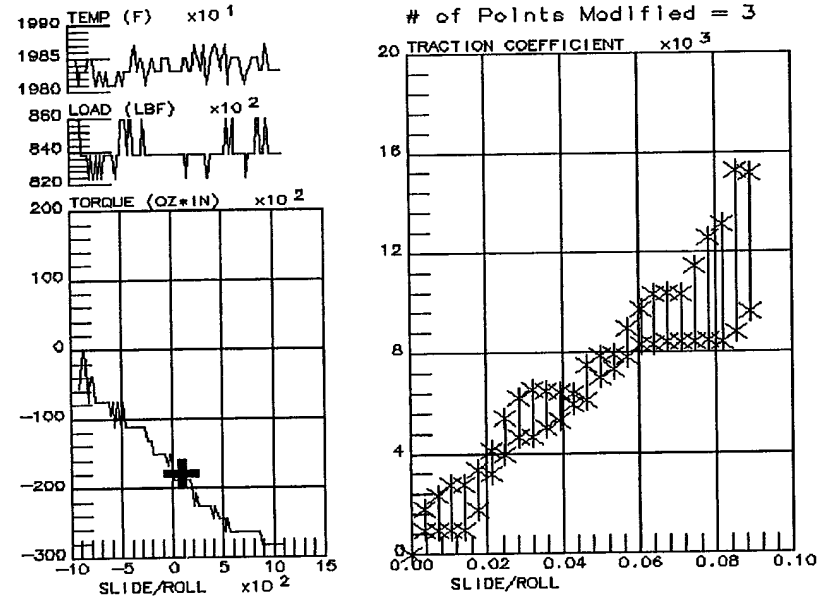
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #166
200F 172LBF 1260RPM 25 FILE: bq20012



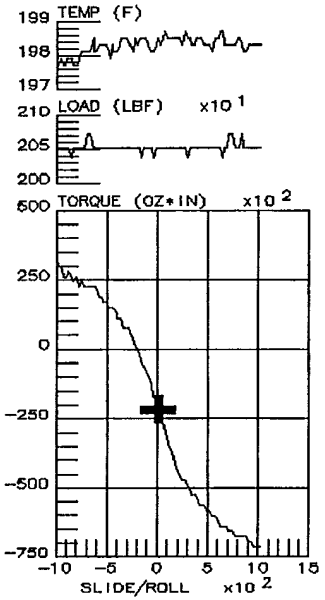
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #167
200F 3LBF 2559RPM 26 FILE: bq20012

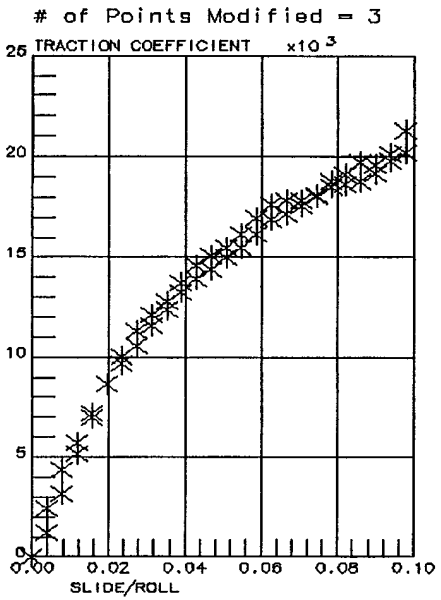


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #168
200F 8LBF 2559RPM 27 FILE: bq20012

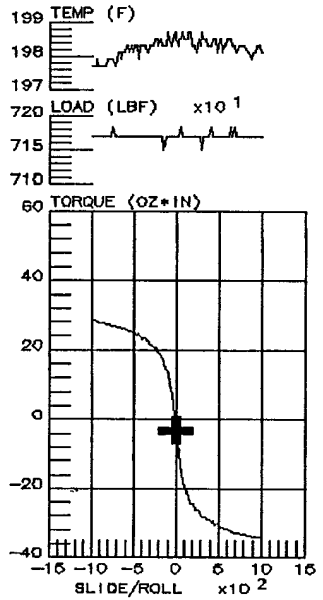


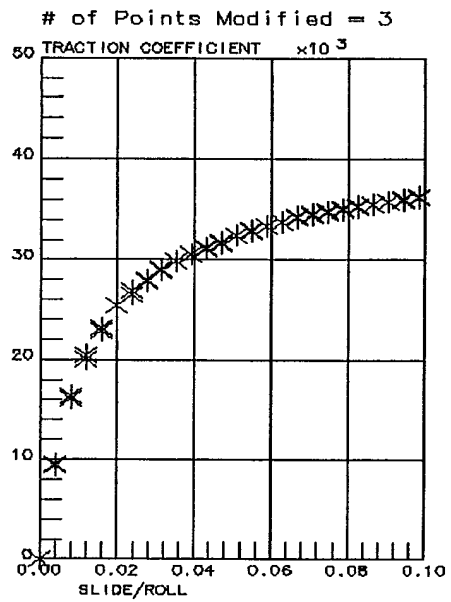
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #169
200F 21LBF 2559RPM 28 FILE: bq20012



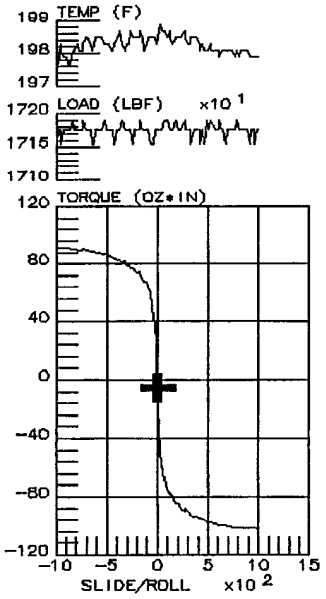


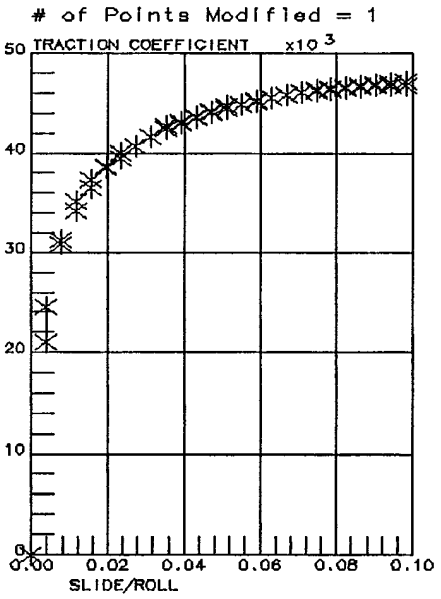
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #170
200F 72LBF 2559RPM 29 FILE: bq20012



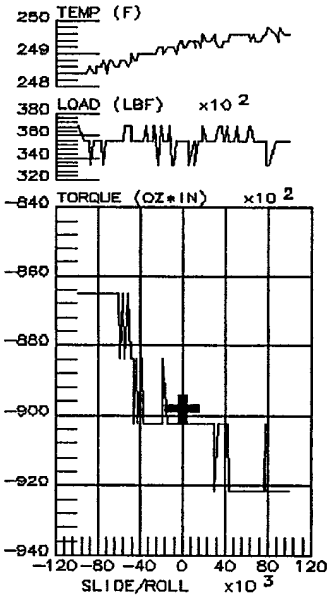


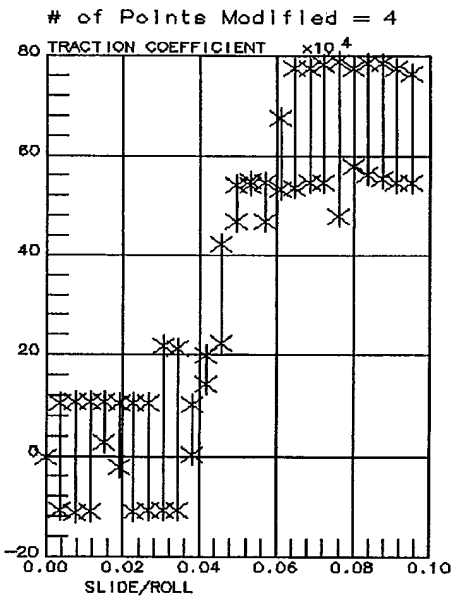
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #171
200F 172LBF 2559RPM 30 FILE: bq20012



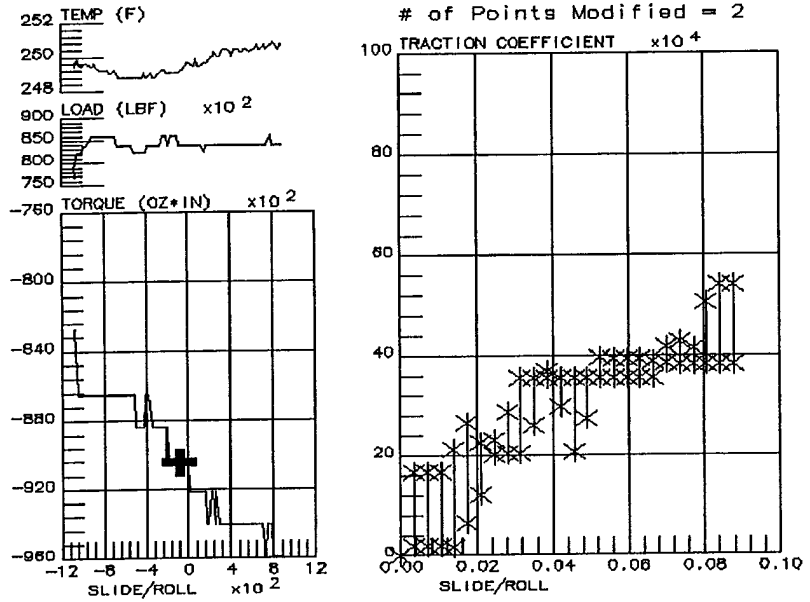


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #172
250F 3LBF 5080RPM 1 FILE: bq250h2

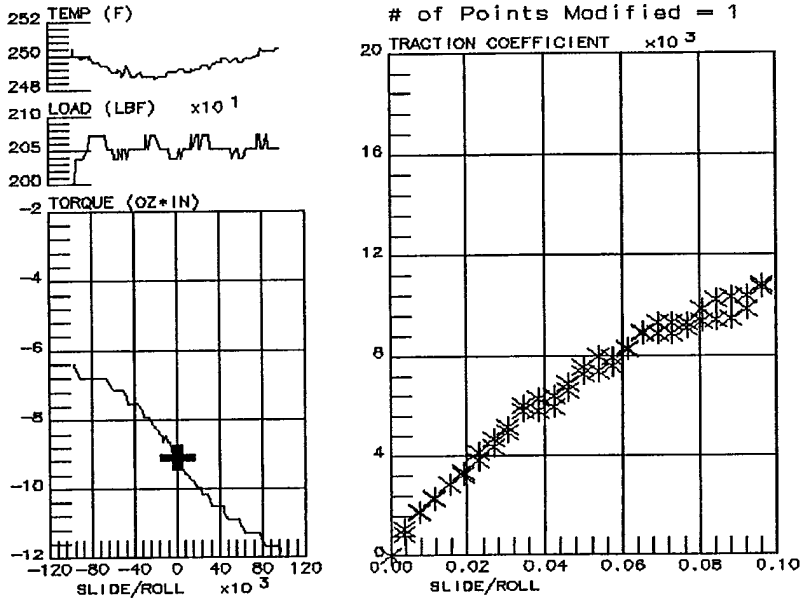




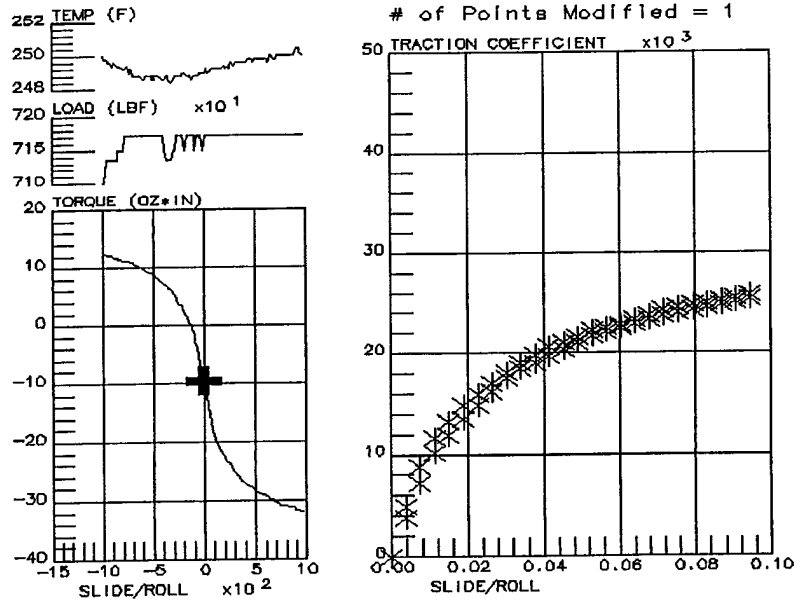
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #173
250F 8LBF 5080RPM 2 FILE: bq250h2



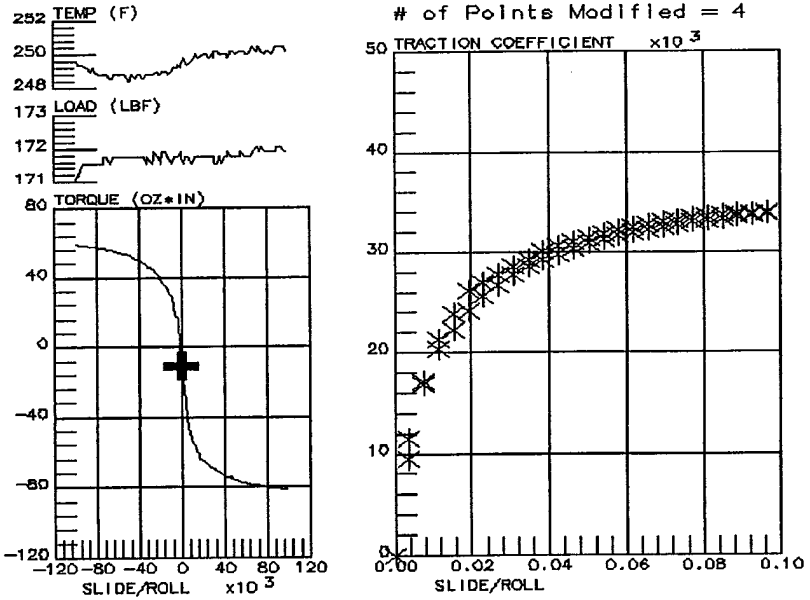
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #174
250F 21LBF 5080RPM 3 FILE: bq250h2



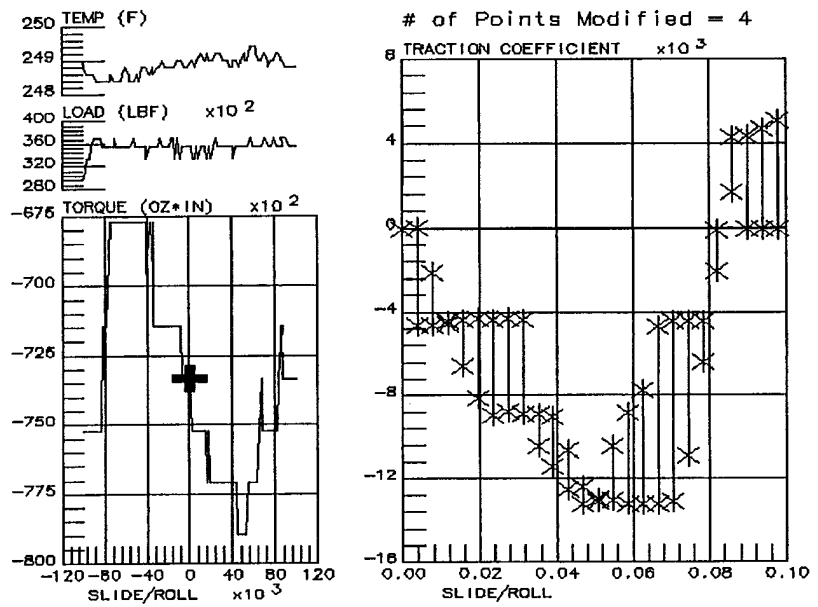
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #175
250F 72LBF 5080RPM 4 FILE: bq250h2



BQ 81-288 ApiezonC+5%Bardhal(VacKote) #176
250F 172LBF 5080RPM 5 FILE: bq250h2

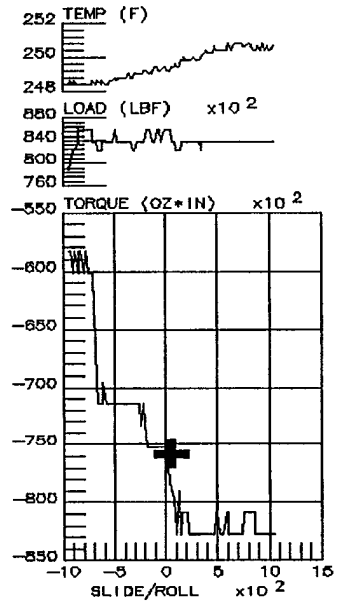


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #177
250F 3LBF 7639RPM 6 FILE: bq250h2

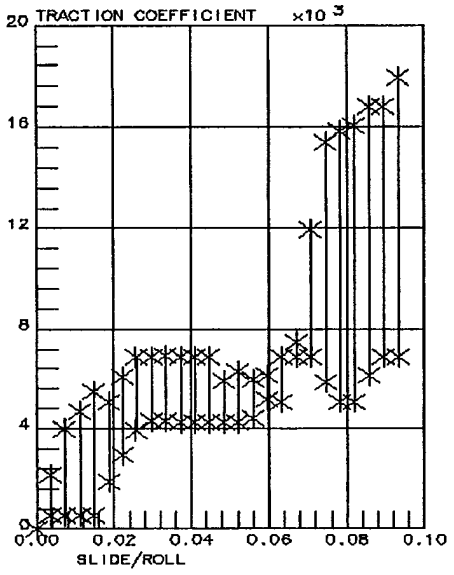


# of Points Modified = 4

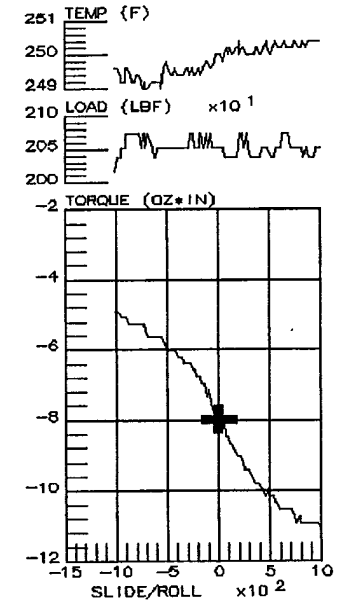
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #178
250F 8LBF 7639RPM 7 FILE: bq250h2



# of Points Modified = 3



BQ 81-288 ApiezonC+5%Bardhal(VacKote) #179
250F 21LBF 7639RPM 8 FILE: bq250h2



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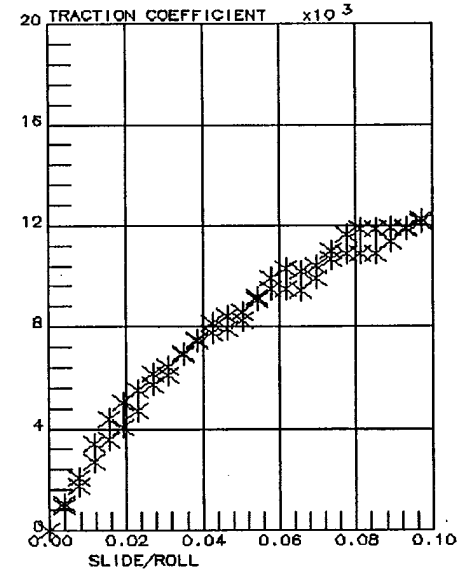
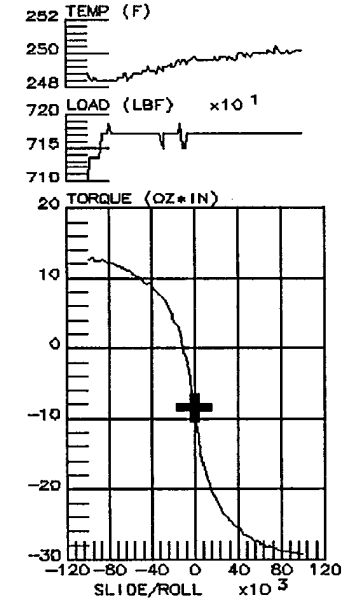
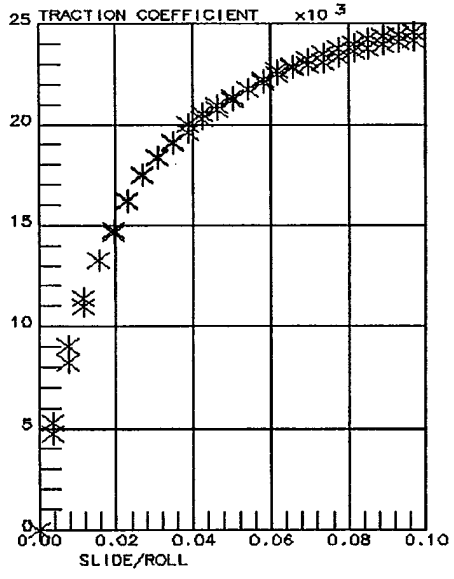


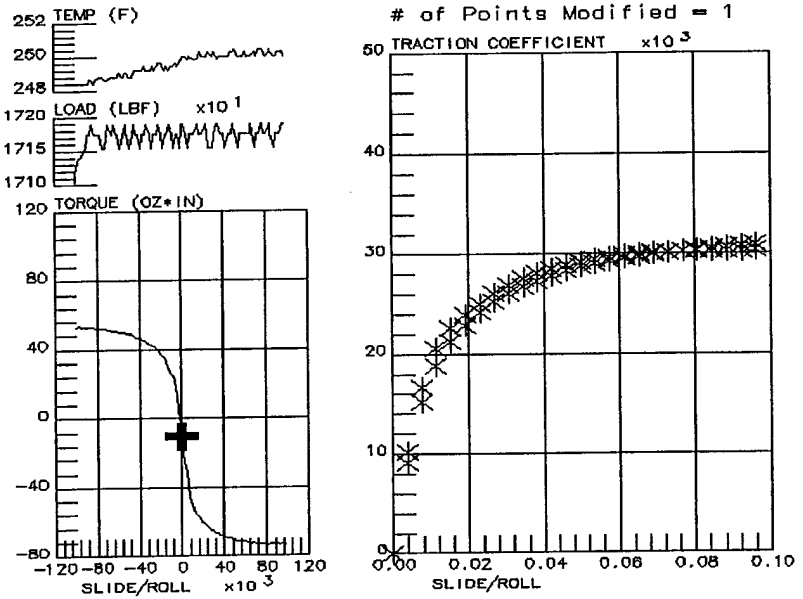
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #180
250F 72LBF 7639RPM 9 FILE: bq250h2



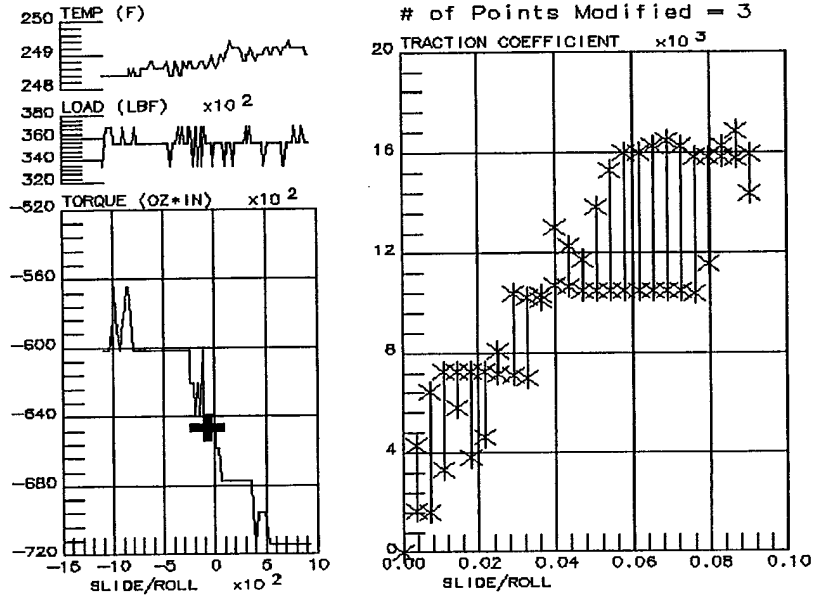
# of Points Modified = 1



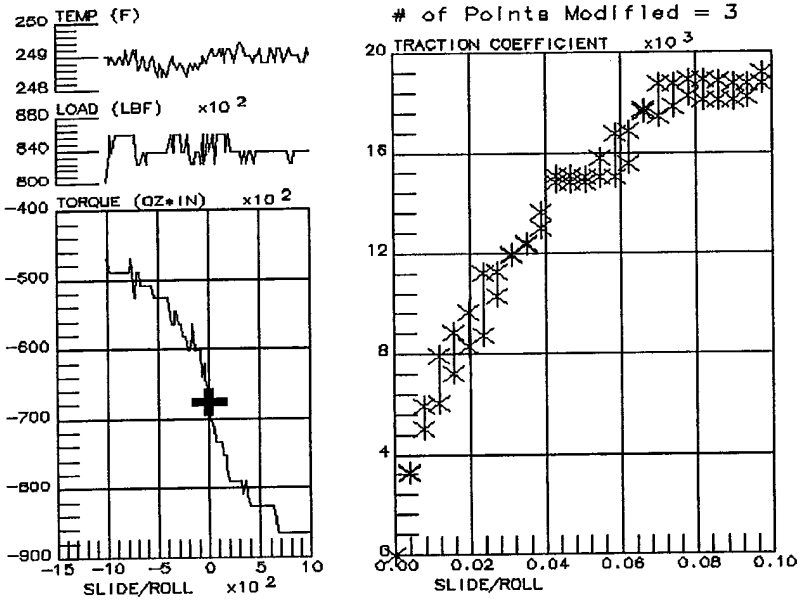
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #181
250F 172LBF 7639RPM 10 FILE: bq250h2



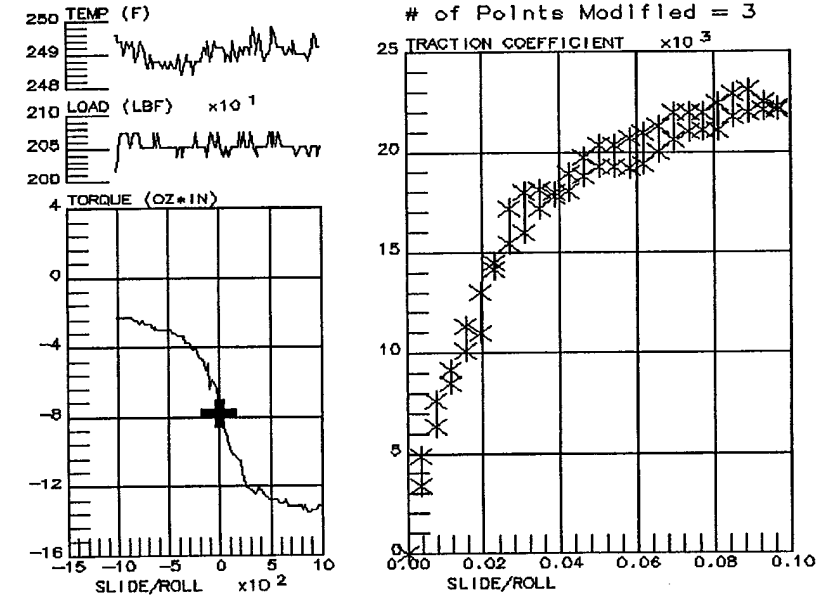
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #182
250F 3LBF 10198RPM 11 FILE: bq250h2



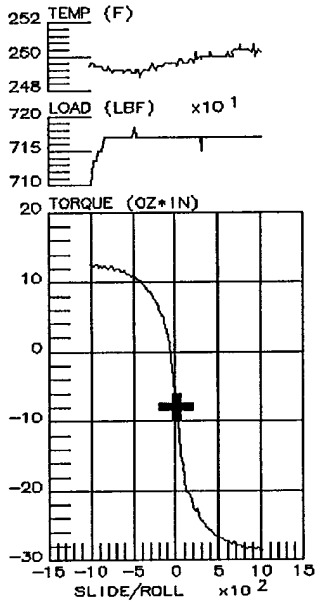
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #183
250F 8LBF 10198RPM 12 FILE: bq250h2

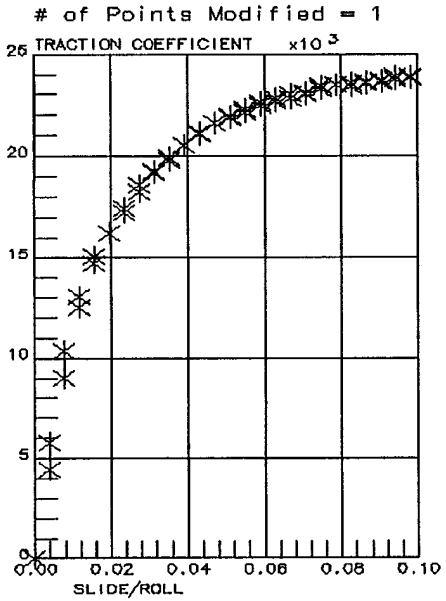


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #184
250F 21LBF 10198RPM 13 FILE: bq250h2

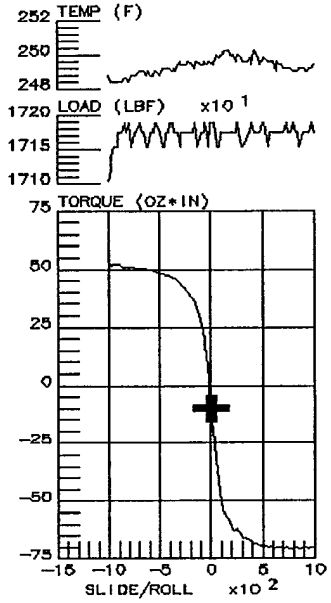


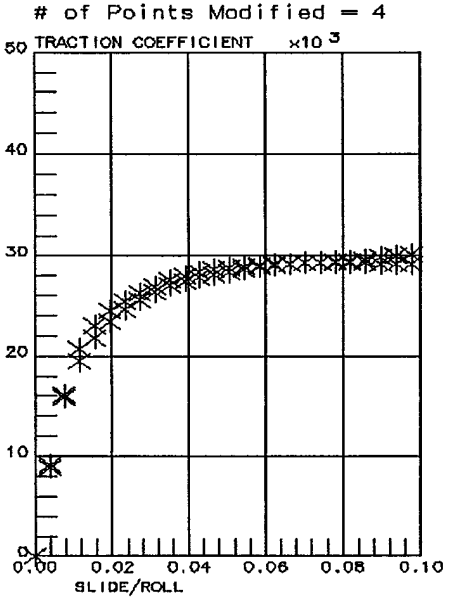
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #185
250F 72LBF 10198RPM 14 FILE: bq250h2



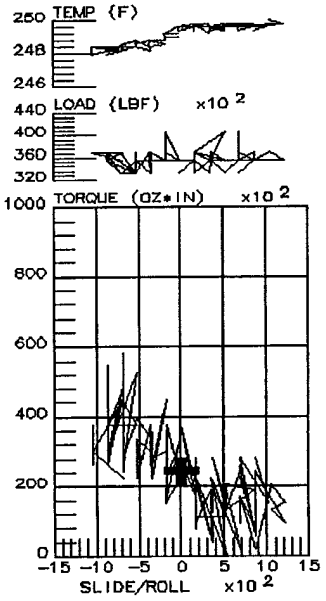


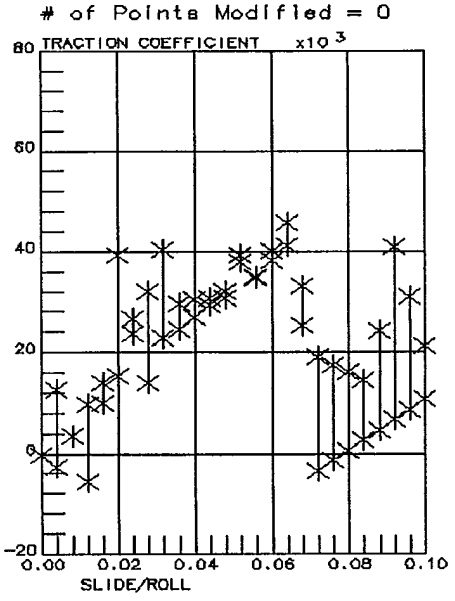
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #186
250F 172LBF 10198RPM 15 FILE: bq250h2



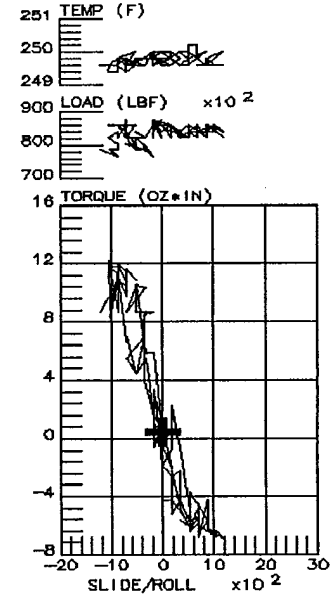


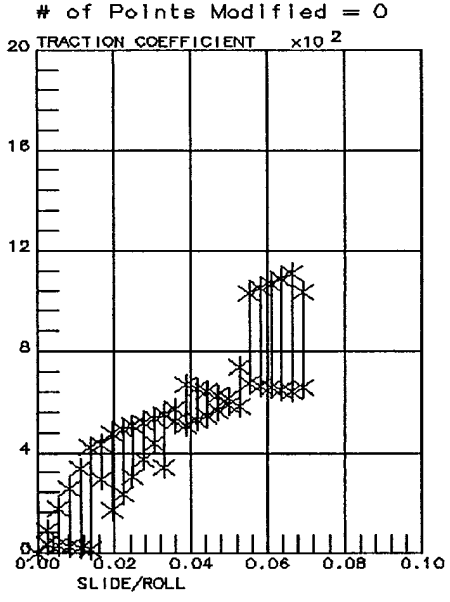
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #187
250F 3LBF 76RPM 1 FILE: bq25012



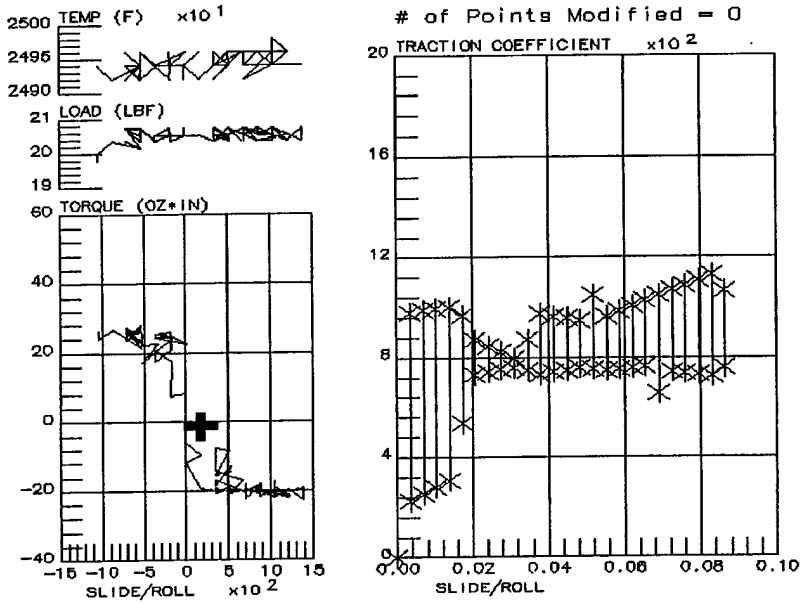


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #188
250F 8LBF 76RPM 2 FILE: bq25012

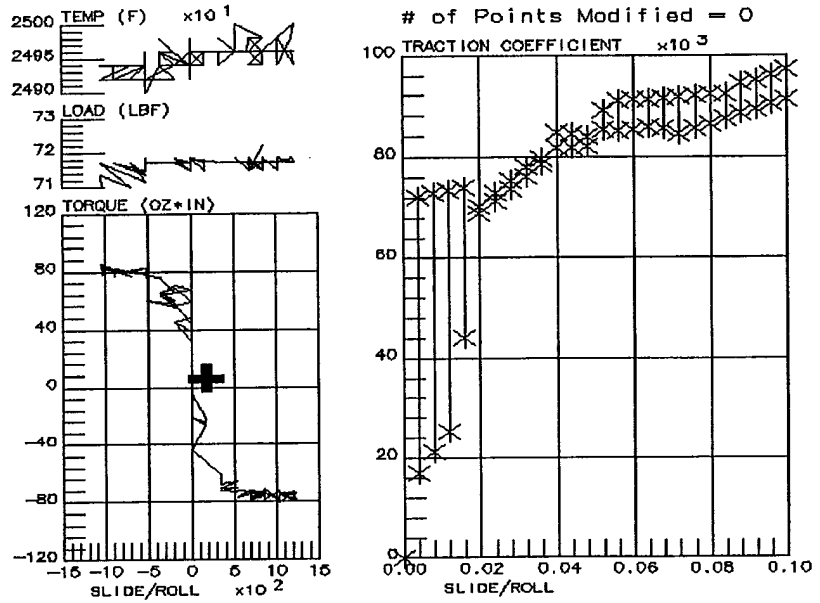




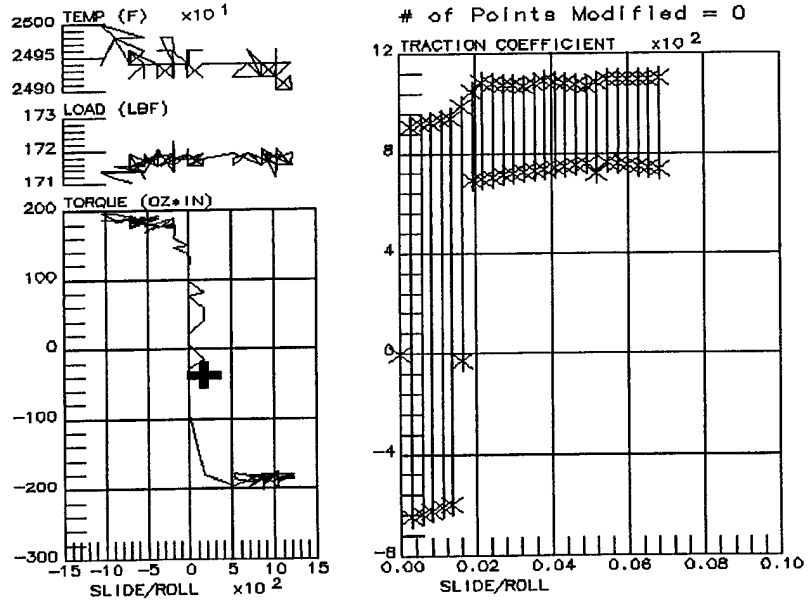
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #189
250F 21LBF 76RPM 3 FILE: bq25012



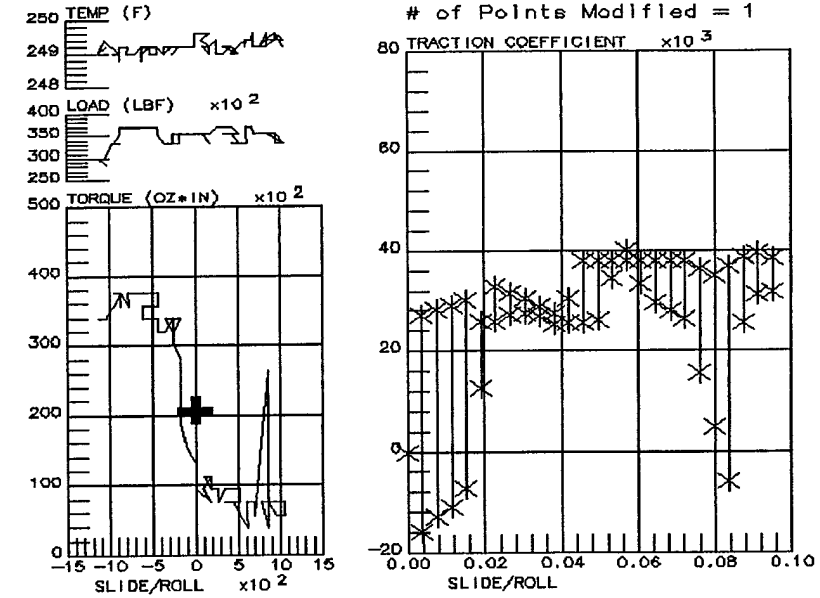
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #190
250F 72LBF 76RPM 4 FILE: bq25012



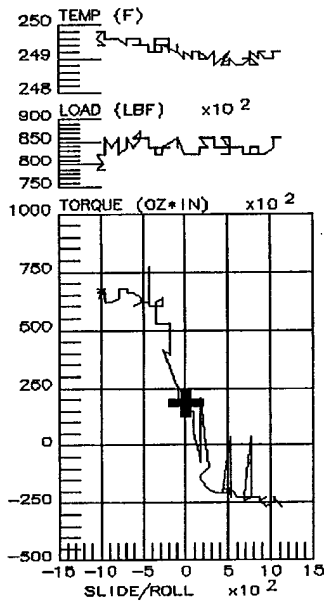
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #191
250F 172LBF 76RPM 5 FILE: bq25012

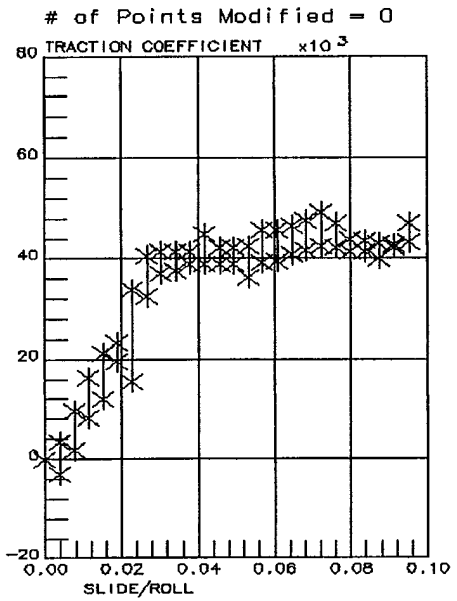


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #192
250F 3LBF 152RPM 6 FILE: bq25012

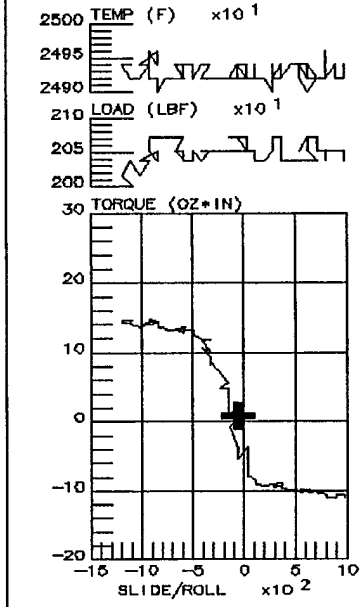


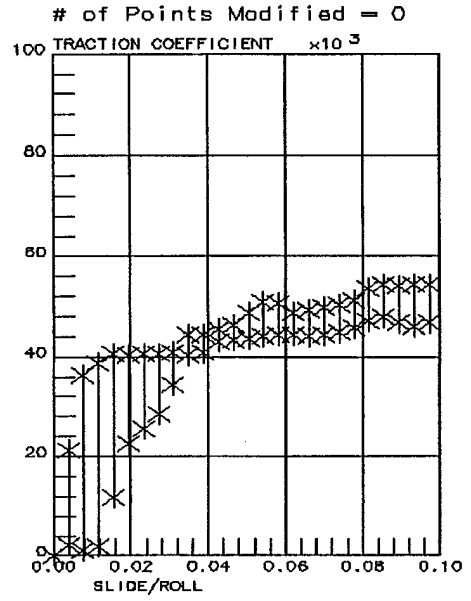
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #193
250F 8LBF 152RPM 7 FILE: bq25012



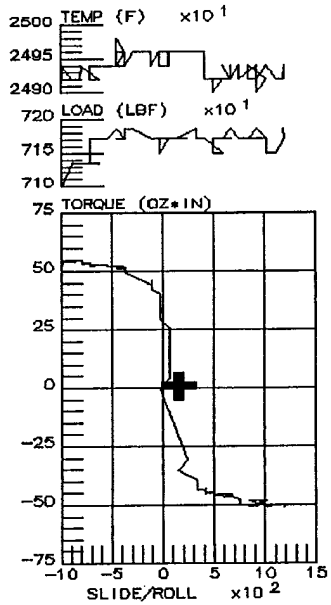


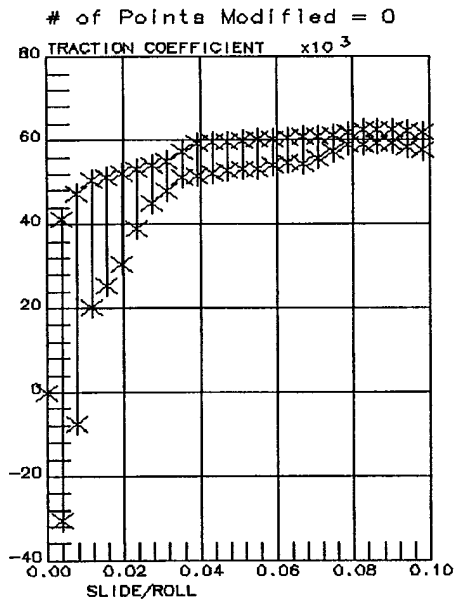
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #194
250F 21LBF 152RPM 8 FILE: bq25012



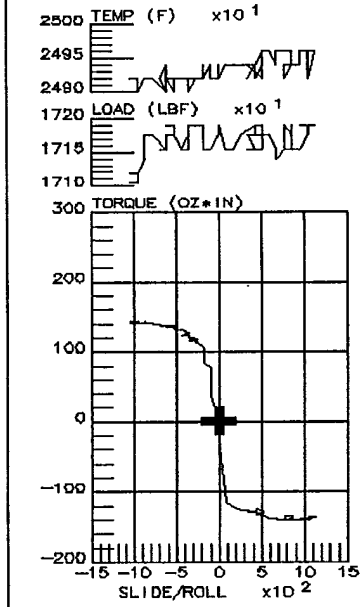


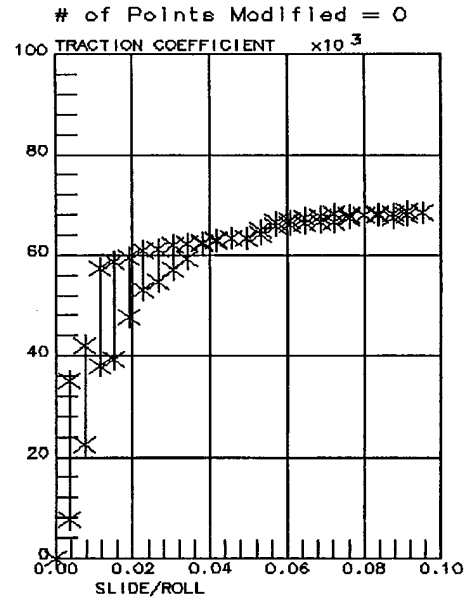
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #195
250F 72LBF 152RPM 9 FILE: bq25012



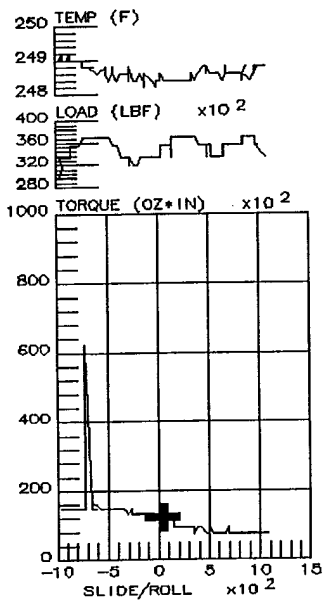


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #196
250F 172LBF 152RPM 10 FILE: bq25012





BQ 81-288 ApiezonC+5%Bardhal(VacKote) #197
250F 3LBF 343RPM 11 FILE: bq25012



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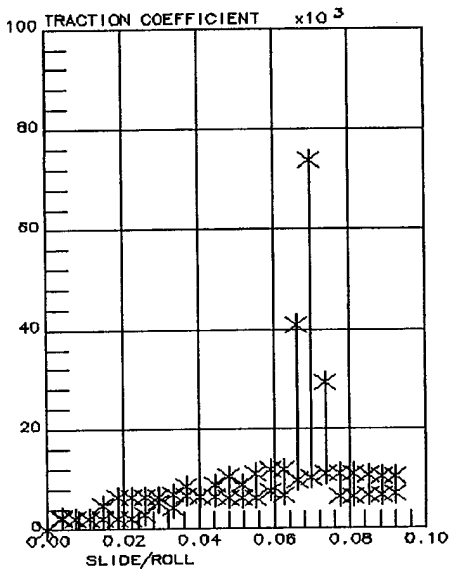
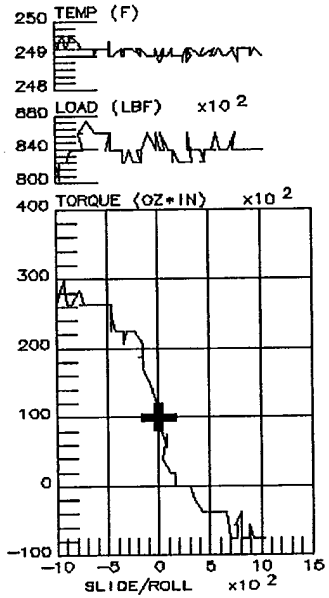


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #198
250F 8LBF 343RPM 12 FILE: bq25012



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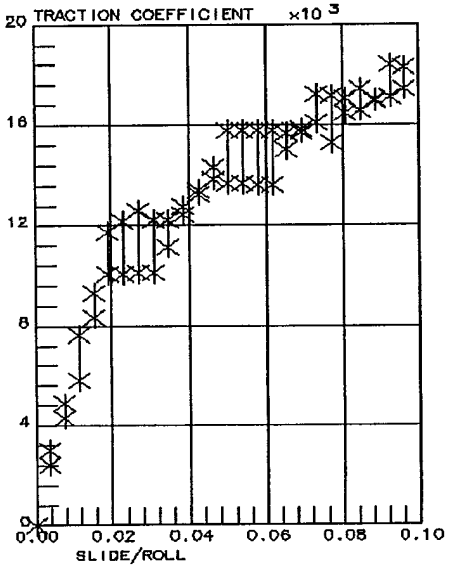
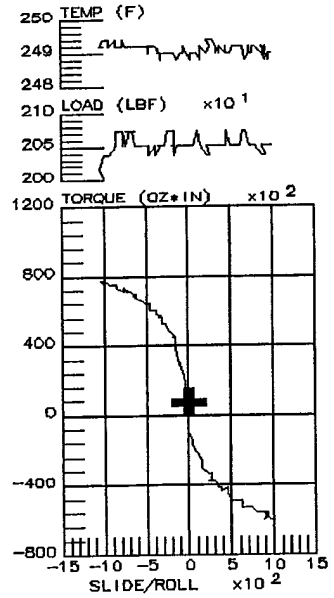


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #199
250F 21LBF 343RPM 13 FILE: bq25012



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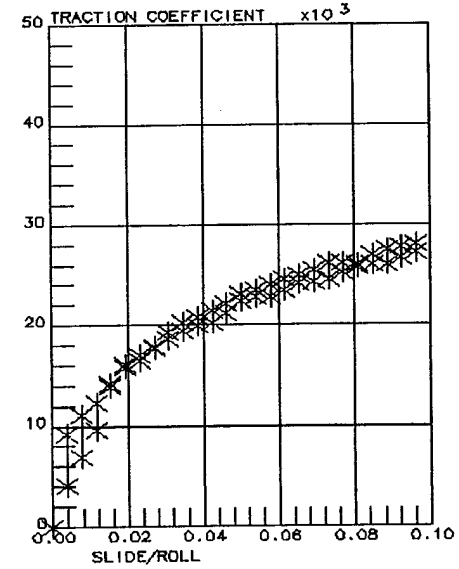
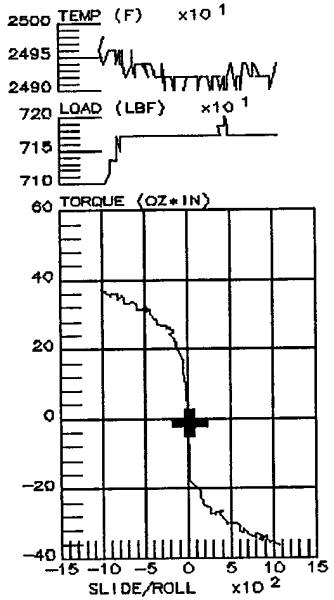


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #200
250F 72LBF 343RPM 14 FILE: bq25012



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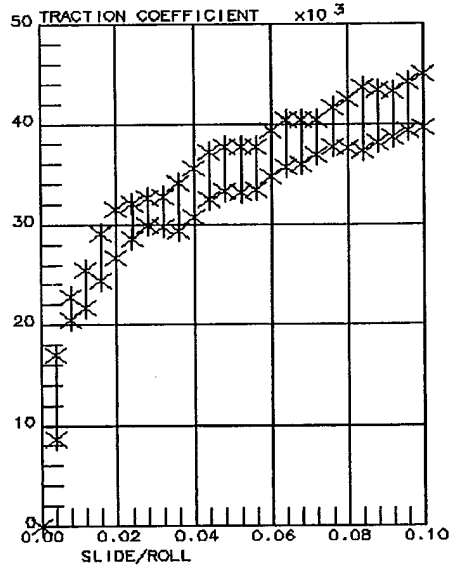
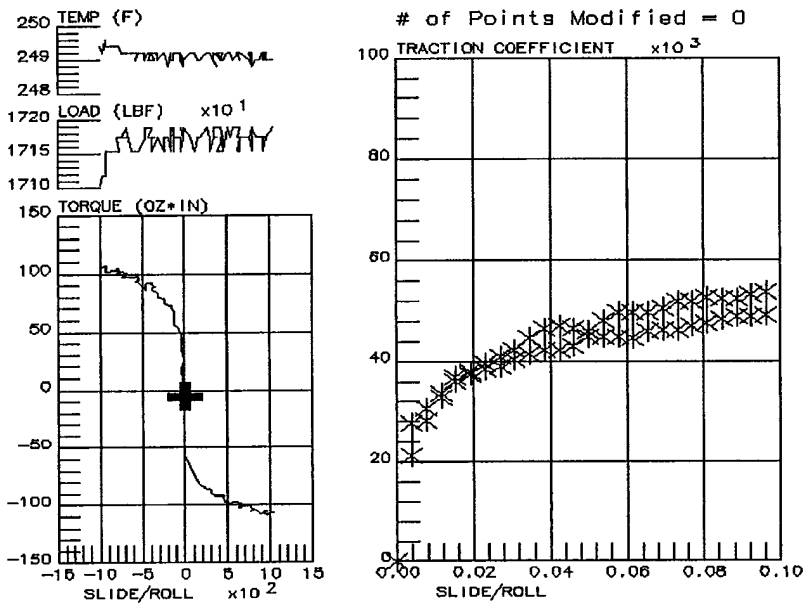
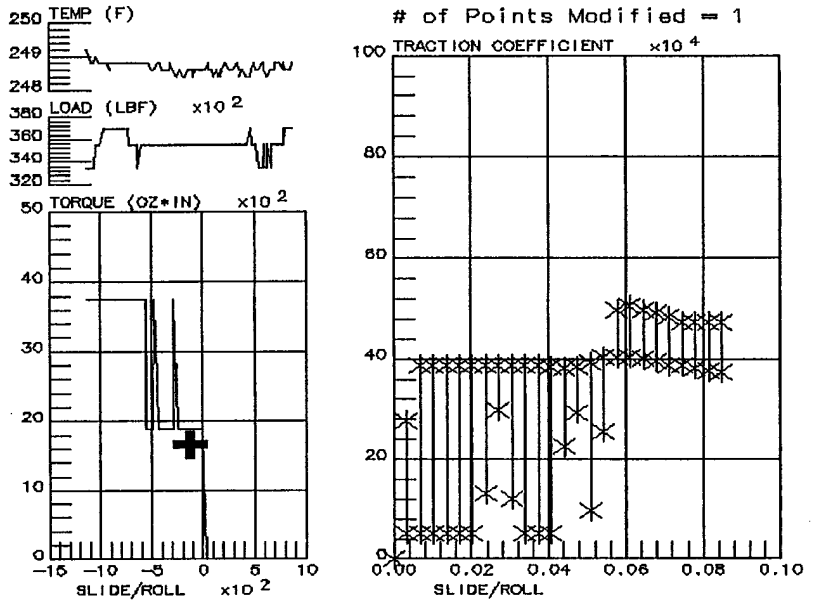


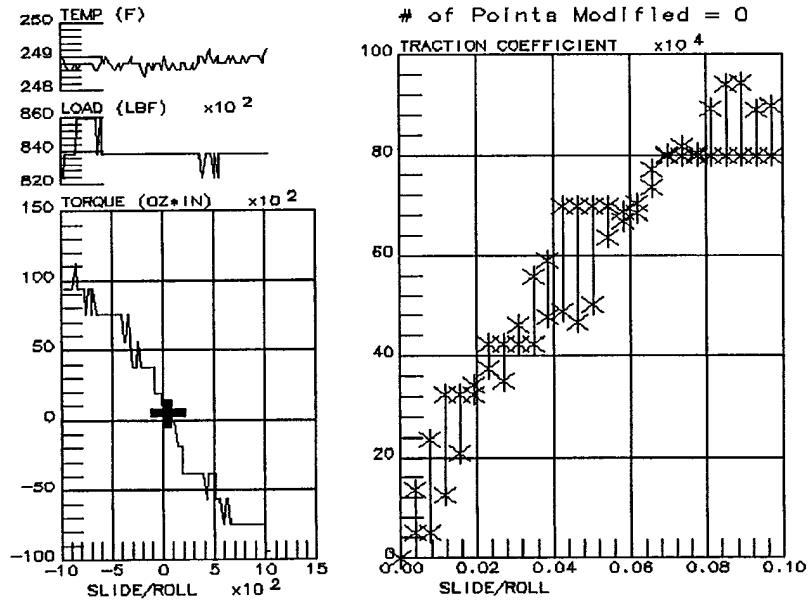
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #201
250F 172LBF 343RPM 15 FILE: bq25012



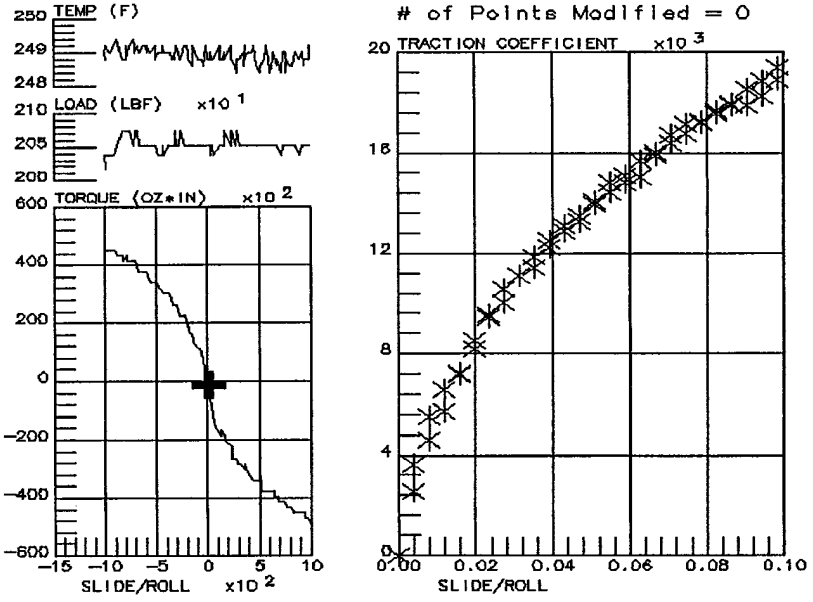
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #202
250F 3LBF 650RPM 16 FILE: bq25012



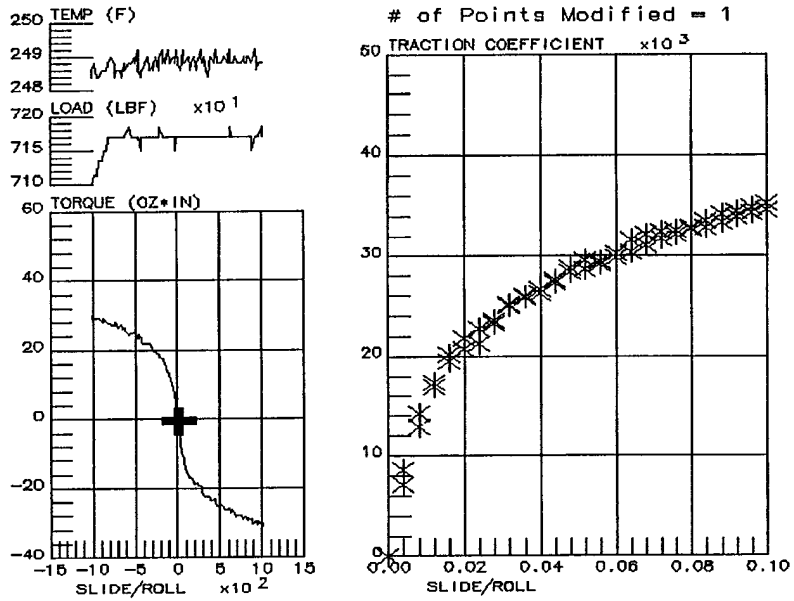
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #203
250F 8LBF 650RPM 17 FILE: bq25012



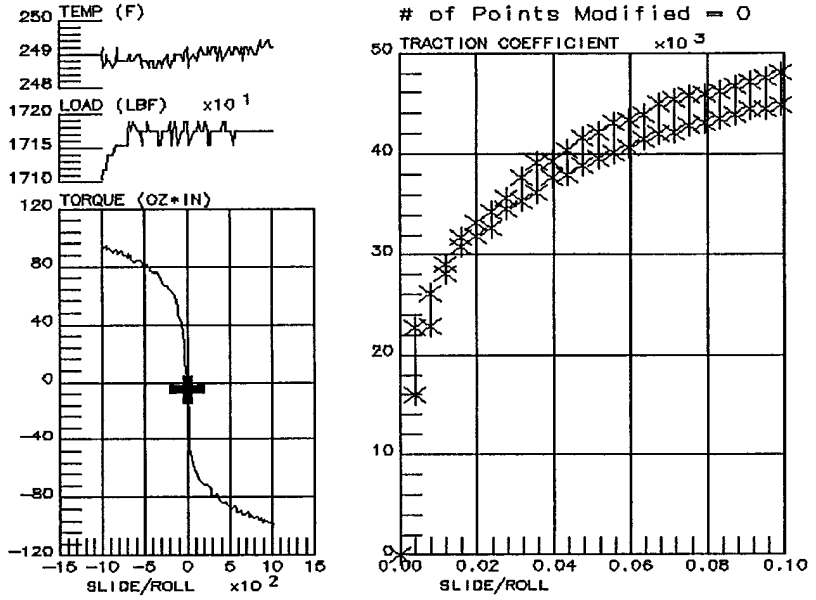
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #204
250F 21LBF 650RPM 18 FILE: bq25012



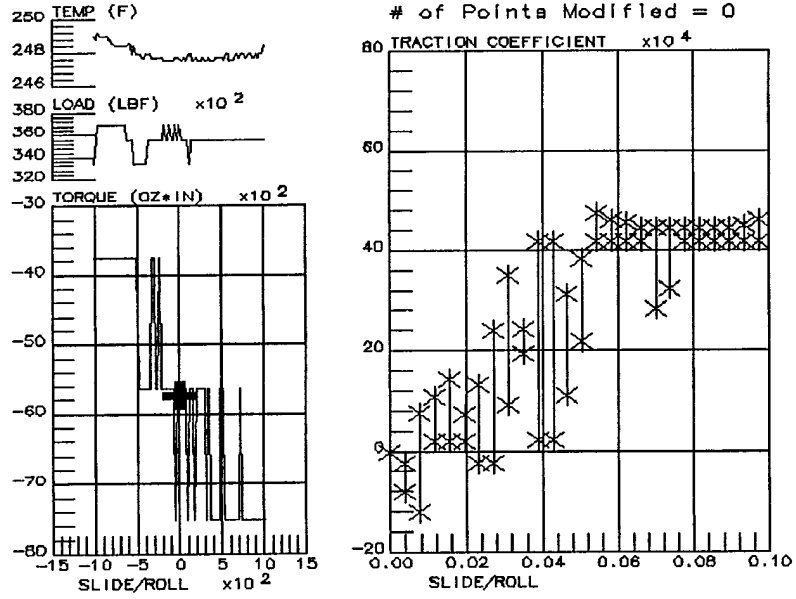
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #205
250F 72LBF 650RPM 19 FILE: bq25012



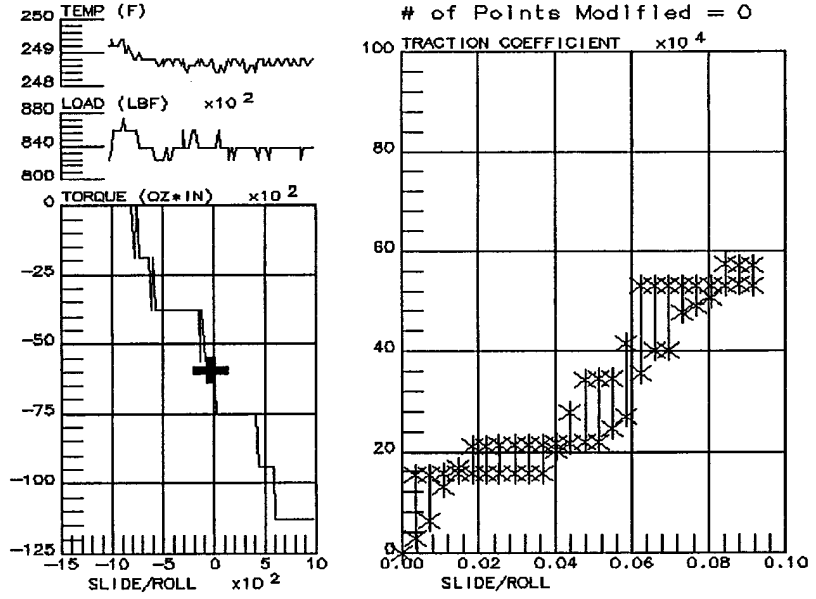
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #206
250F 172LBF 650RPM 20 FILE: bq25012



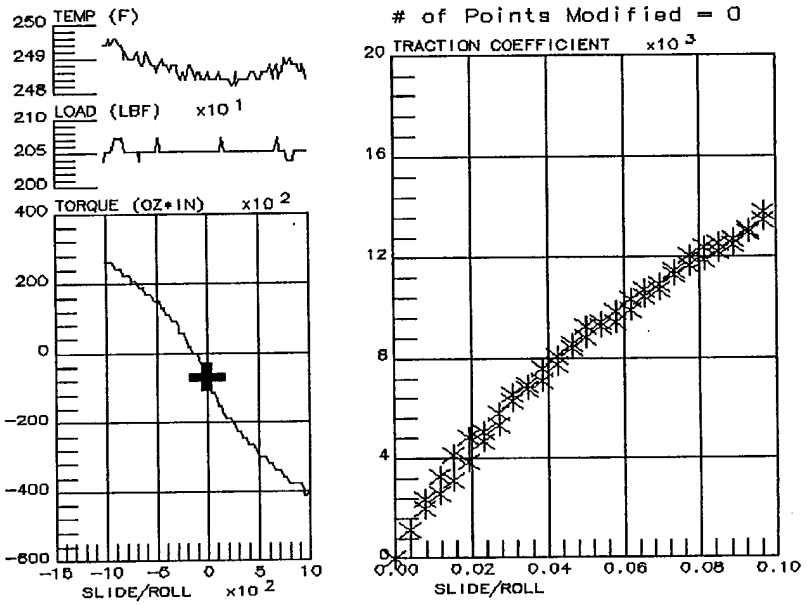
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #207
250F 3LBF 1260RPM 21 FILE: bq25012



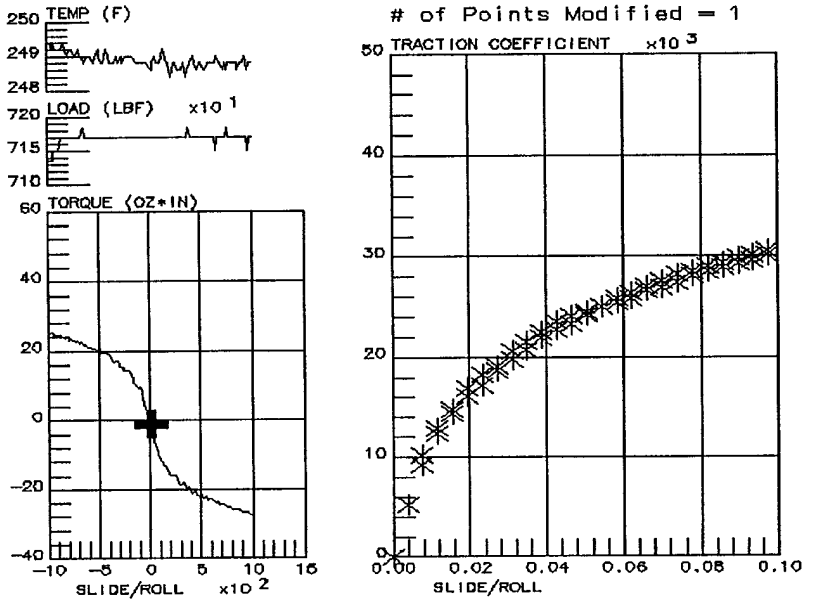
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #208
250F 8LBF 1260RPM 22 FILE: bq25012



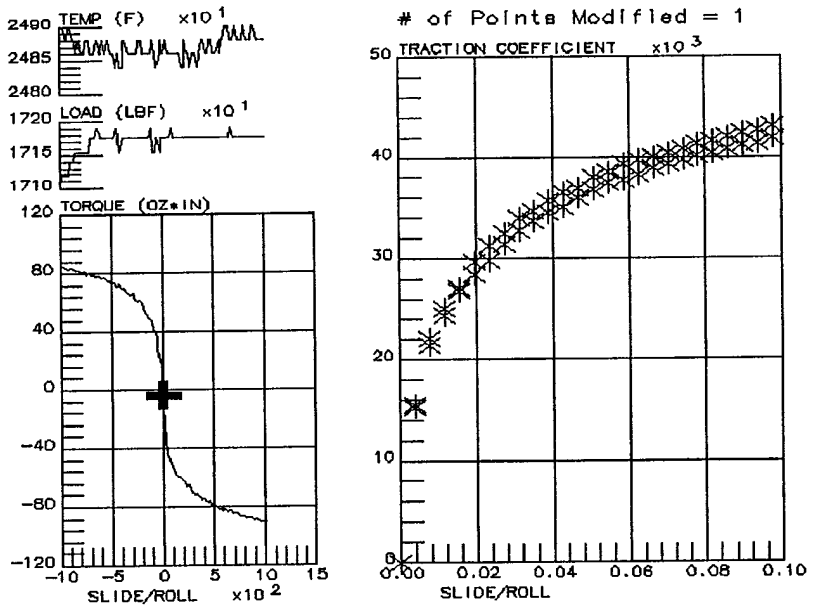
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #209
250F 21LBF 1260RPM 23 FILE: bq25012



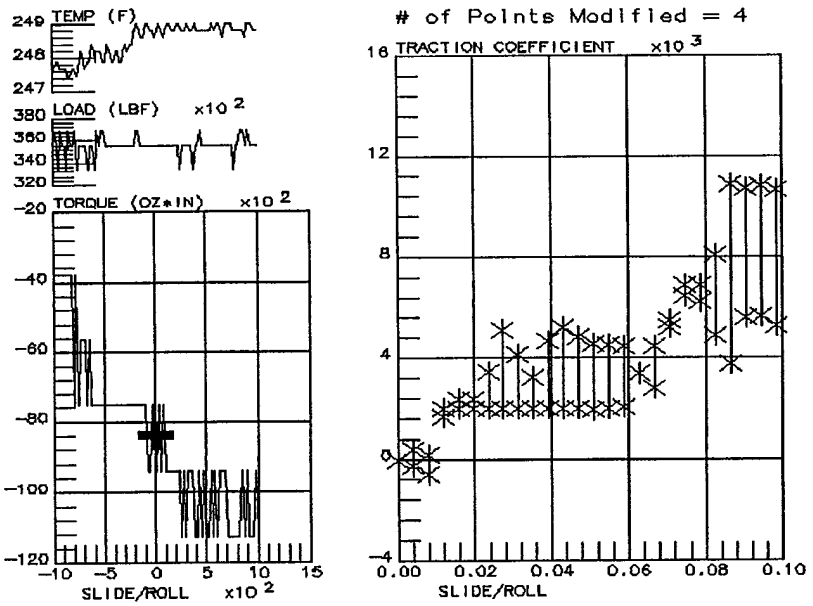
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #210
250F 72LBF 1260RPM 24 FILE: bq25012



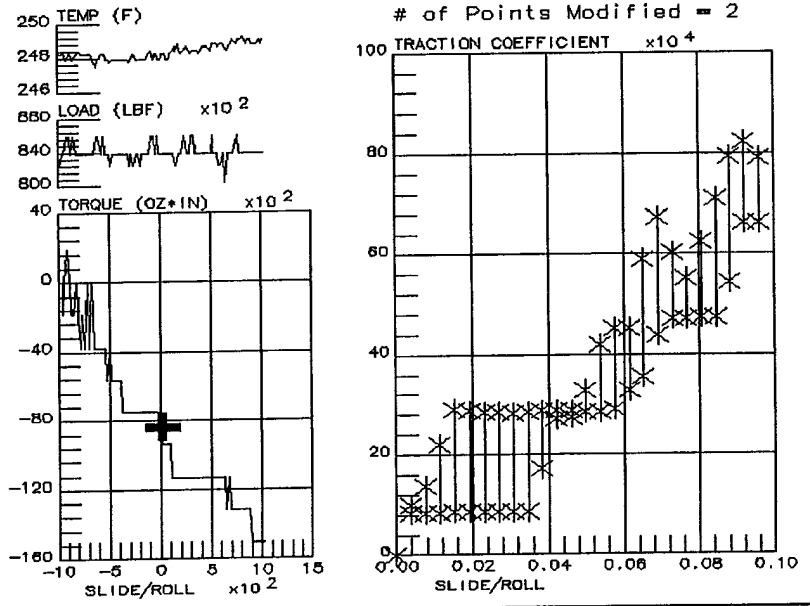
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #211
250F 172LBF 1260RPM 25 FILE: bq25012



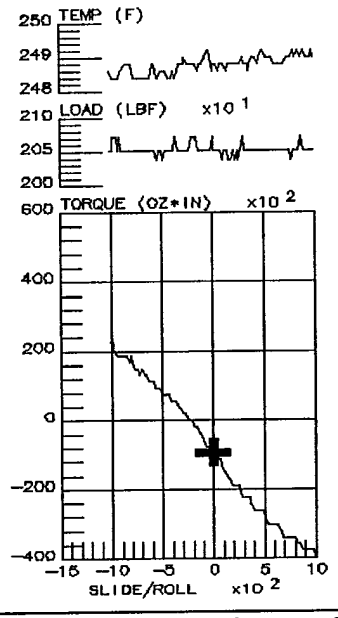
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #212
250F 3LBF 2559RPM 26 FILE: bq25012

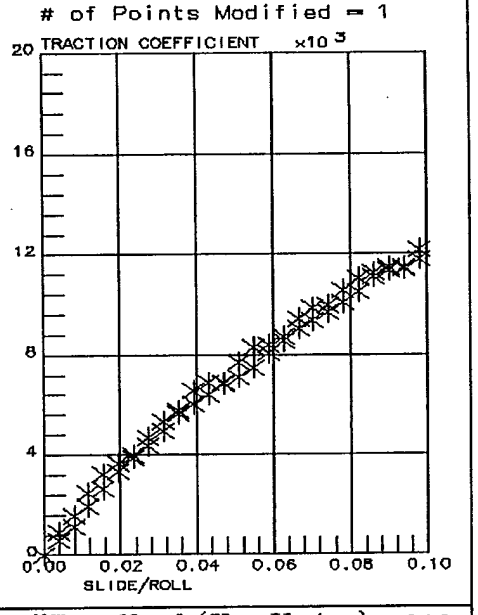


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #213
250F 8LBF 2559RPM 27 FILE: bq25012

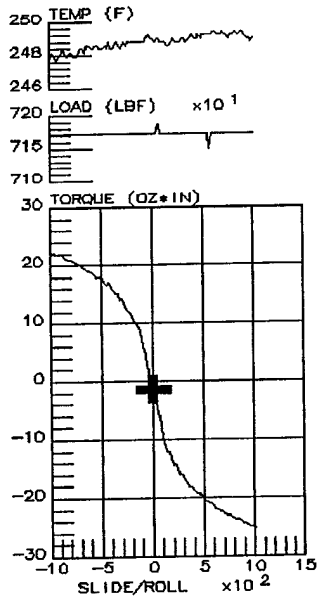


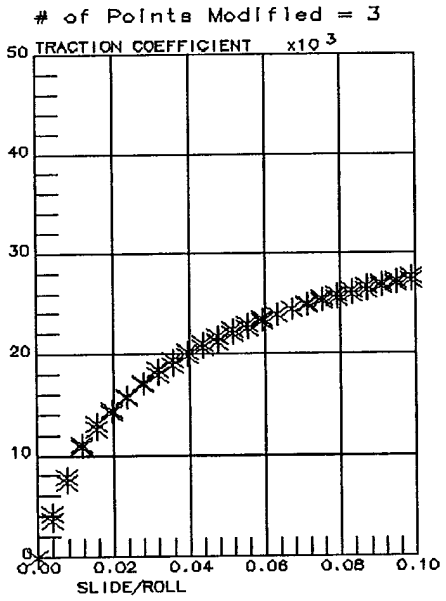
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #214
250F 21LBF 2559RPM 28 FILE: bq25012



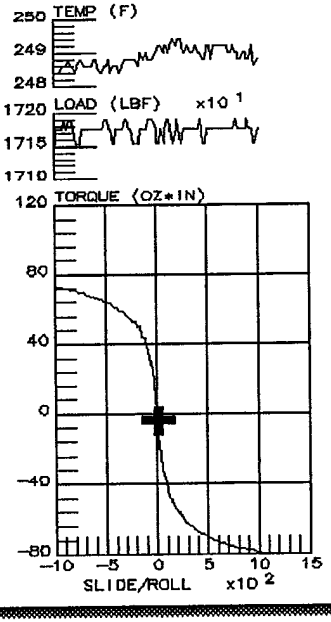


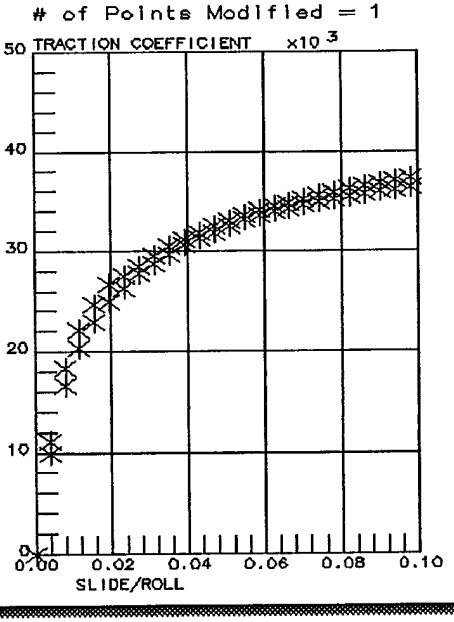
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #215
250F 72LBF 2559RPM 29 FILE: bq25012



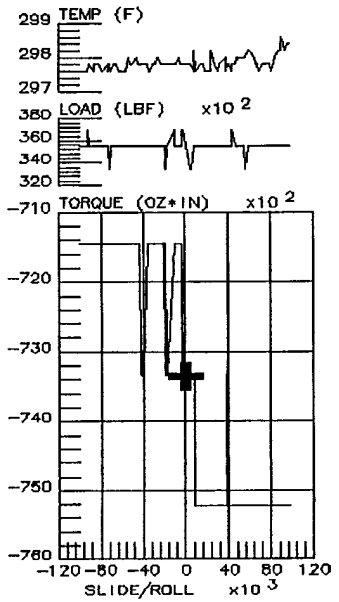


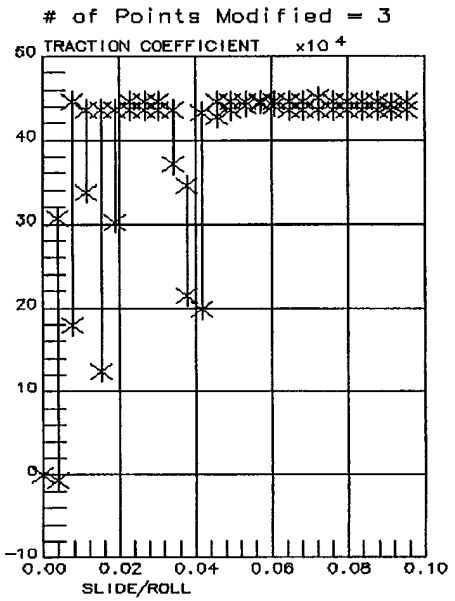
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #216
250F 172LBF 2559RPM 30 FILE: bq25012



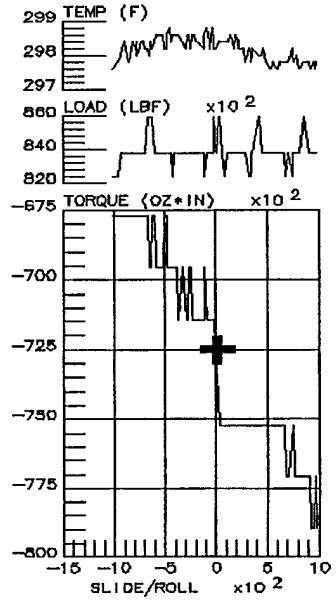


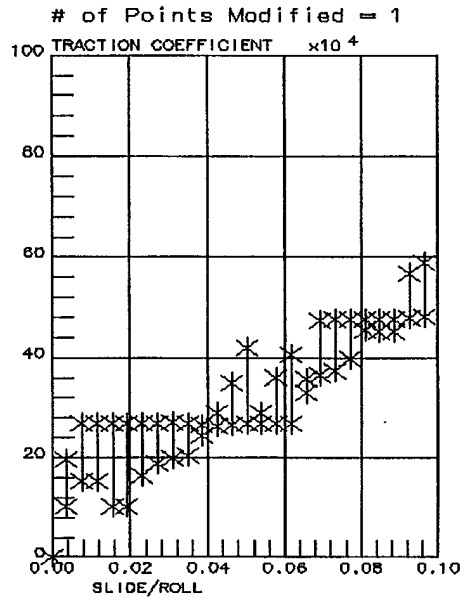
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #217
300F 3LBF 5080RPM 1 FILE: bq300h2



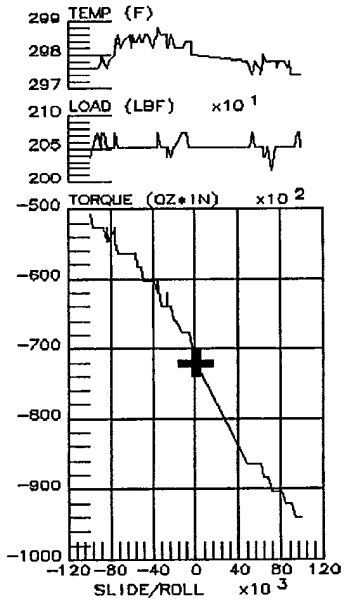


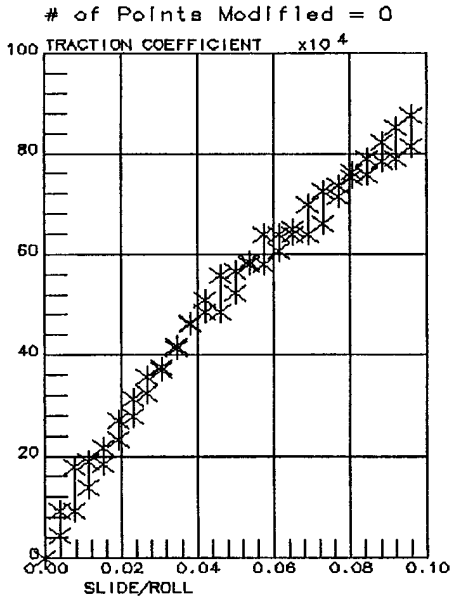
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #218
300F 8LBF 5080RPM 2 FILE: bq300h2



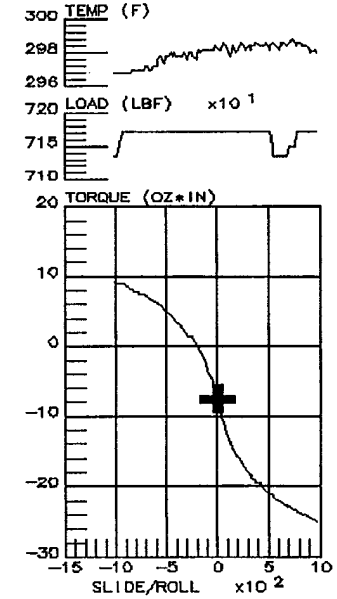


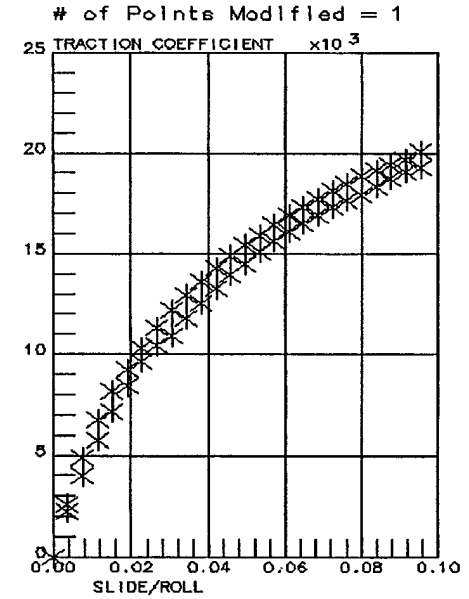
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #219
300F 21LBF 5080RPM 3 FILE: bq300h2



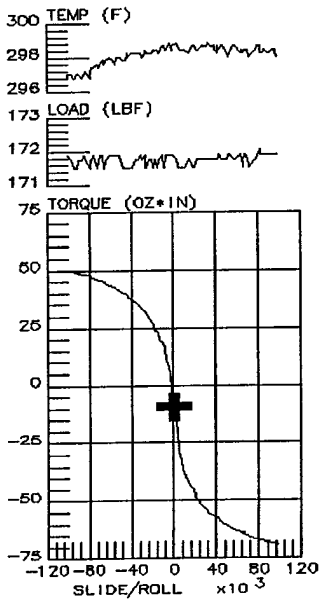


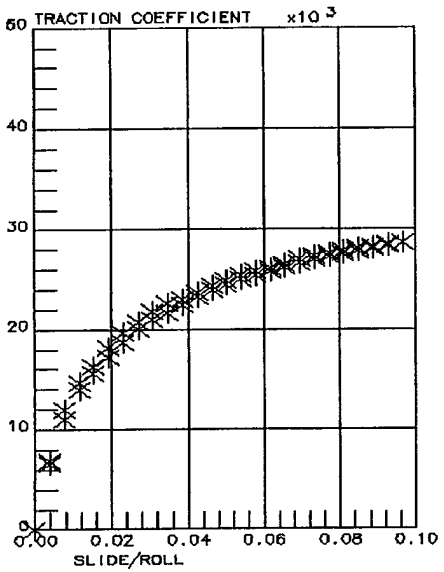
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #220
300F 72LBF 5080RPM 4 FILE: bq300h2



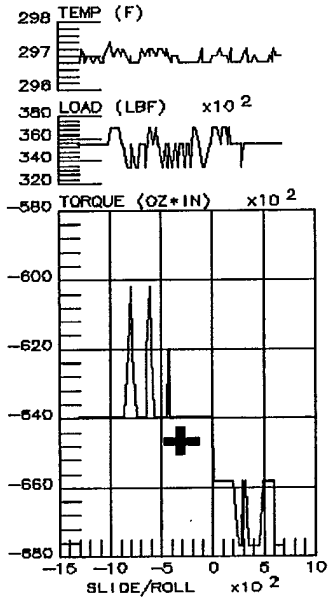


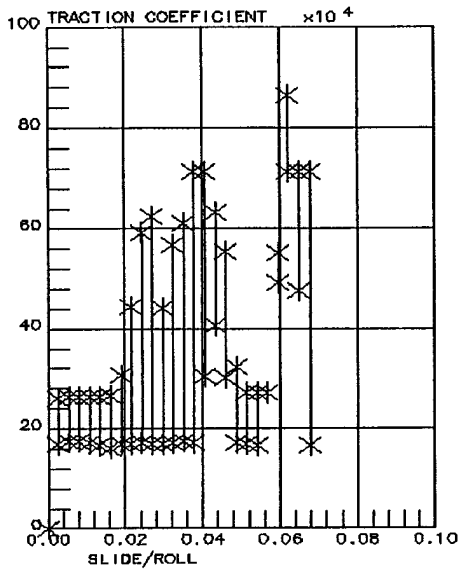
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #221
300F 172LBF 5080RPM 5 FILE: bq300h2



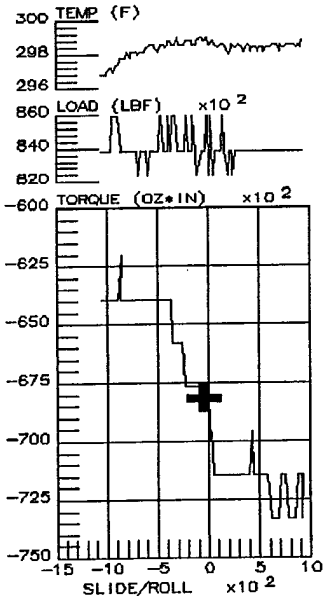


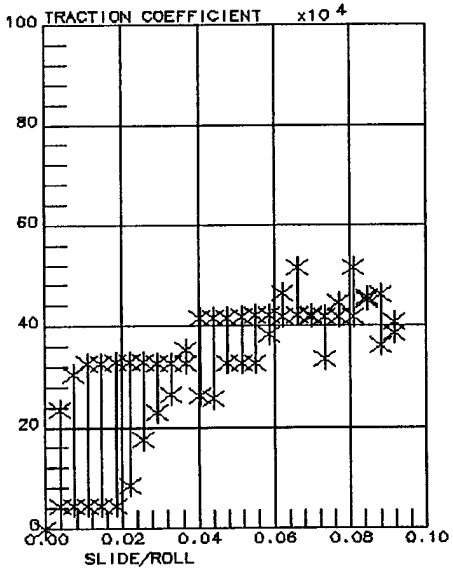
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #222
300F 3LBF 7639RPM 6 FILE: bq300h2



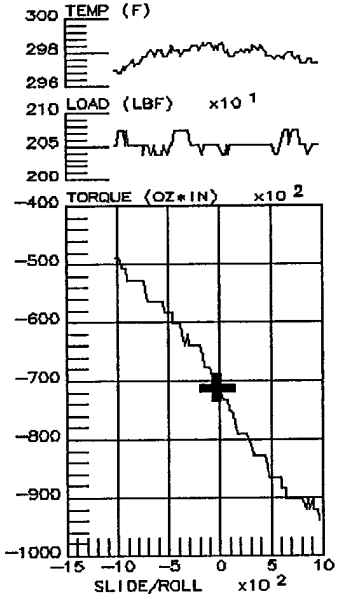


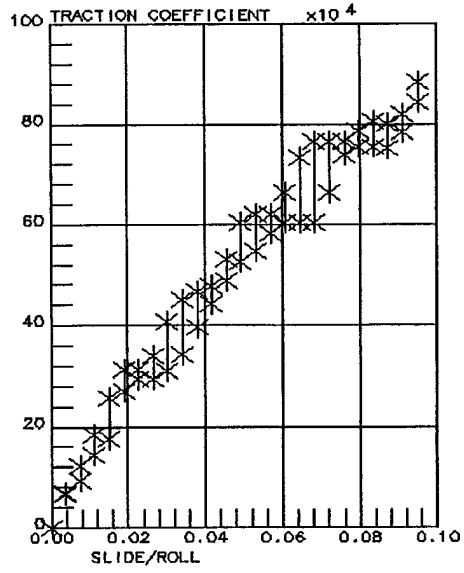
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #223
300F 8LBF 7639RPM 7 FILE: bq300h2



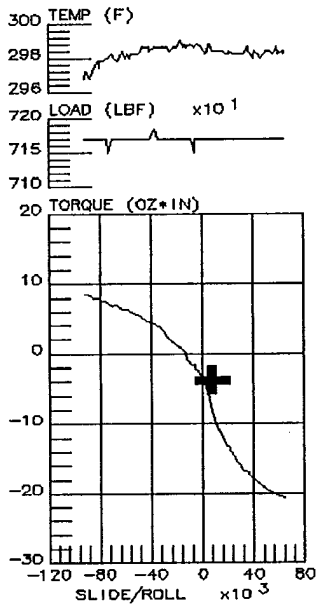


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #224
300F 21LBF 7639RPM 8 FILE: bq300h2





BQ 81-288 ApiezonC+5%Bardhal(VacKote) #225
300F 72LBF 7639RPM 9 FILE: bq300h2



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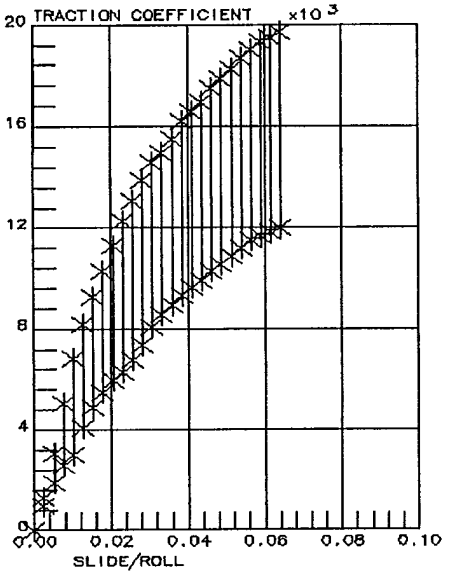
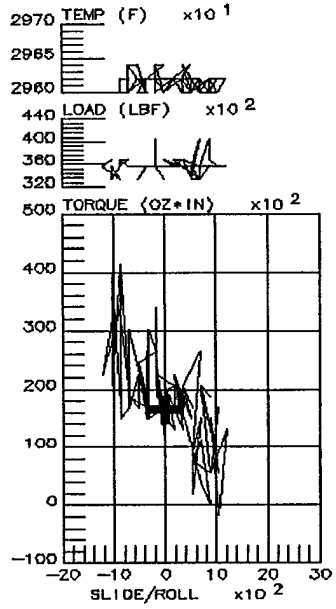
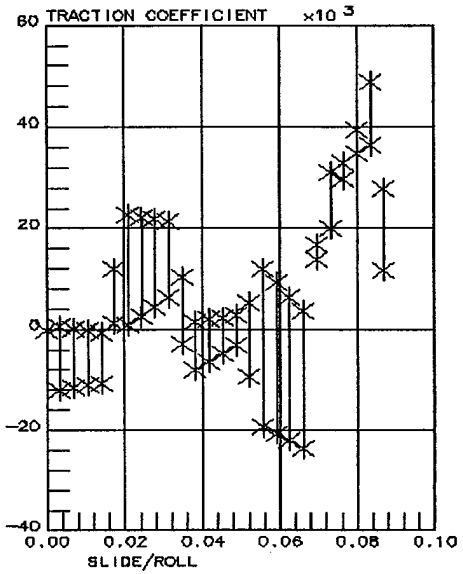


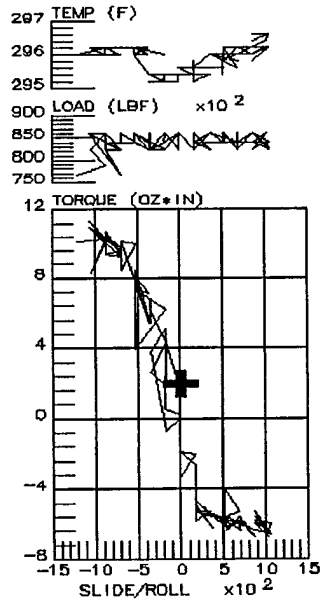
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #226
300F 3LBF 76RPM 1 FILE: bq30012



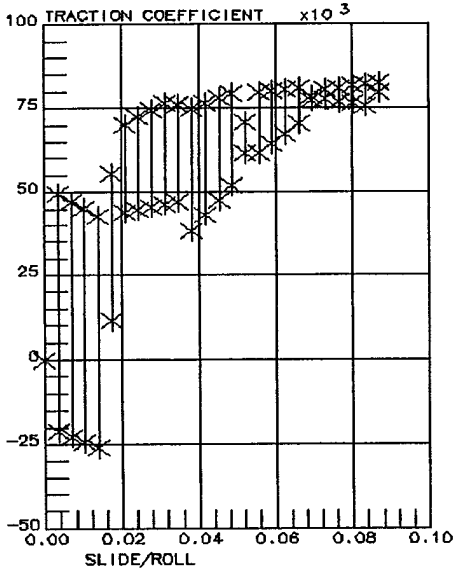
# of Points Modified = 0



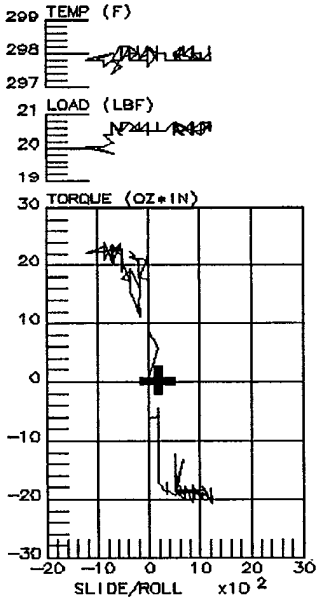
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #227
300F 8LBF 76RPM 2 FILE: bq30012



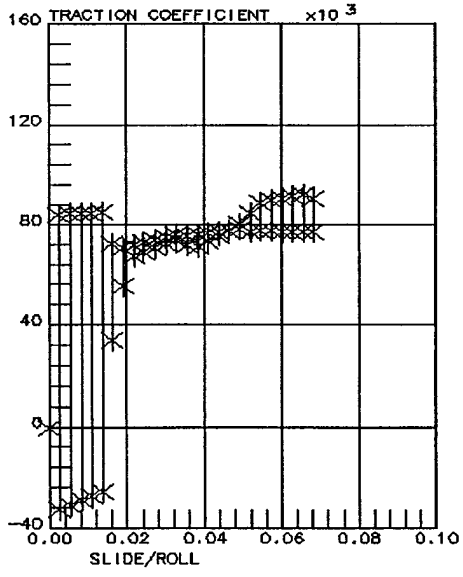
# of Points Modified = 0



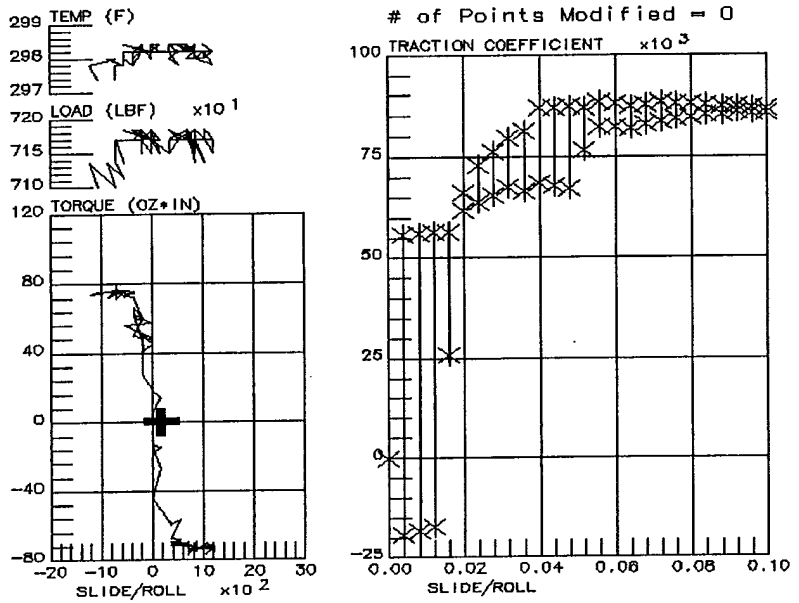
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #228
300F 21LBF 76RPM 3 FILE: bq30012



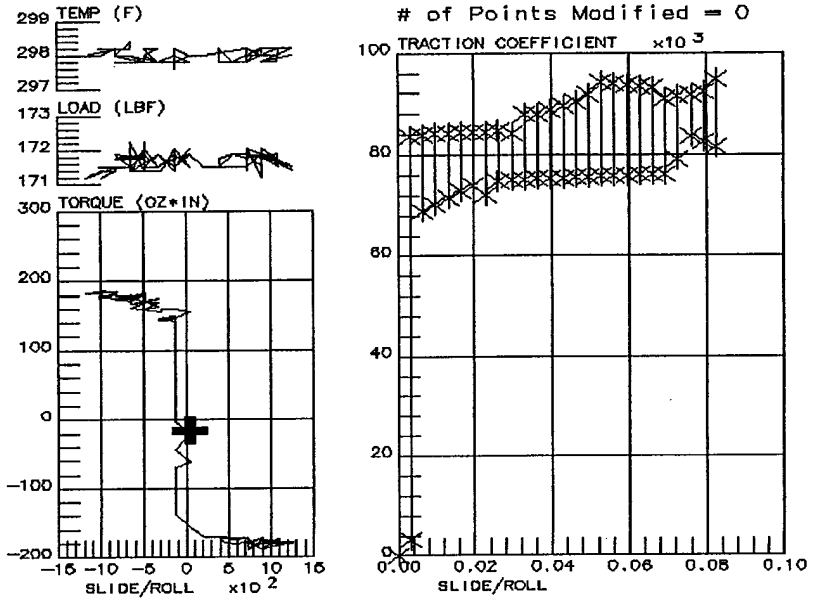
# of Points Modified = 0



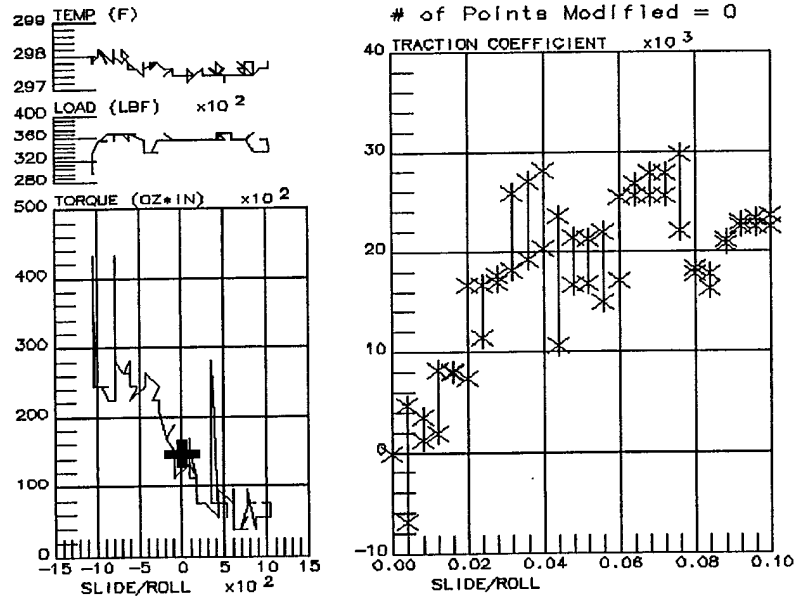
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #229
300F 72LBF 76RPM 4 FILE: bq30012



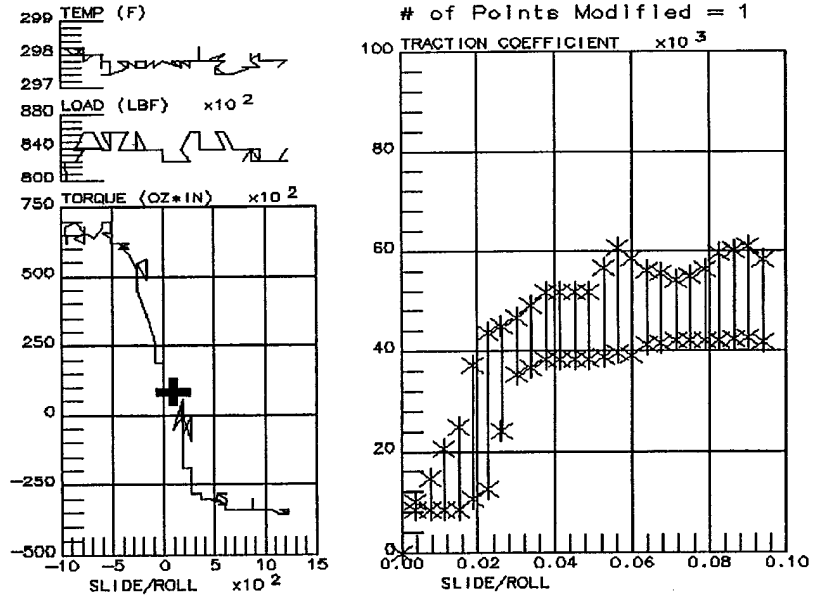
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #230
300F 172LBF 76RPM 5 FILE: bq30012



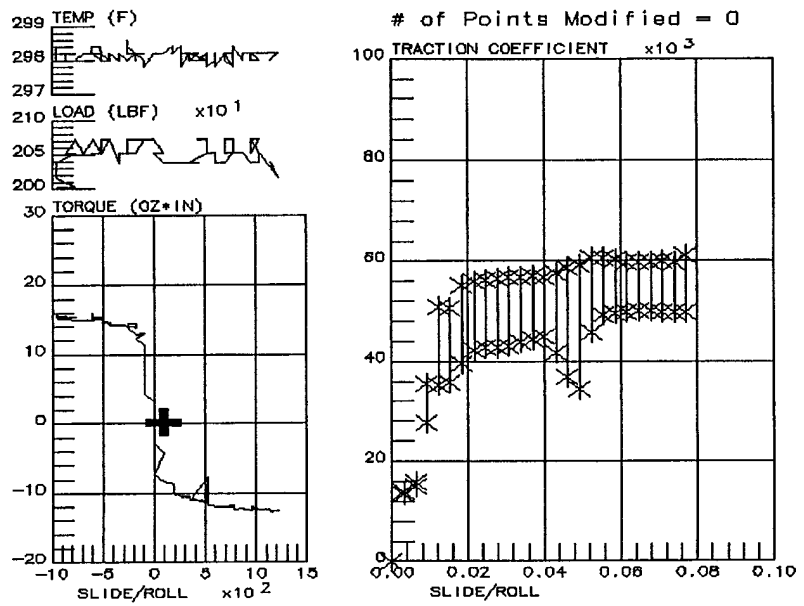
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #231
300F 3LBF 152RPM 6 FILE: bq30012



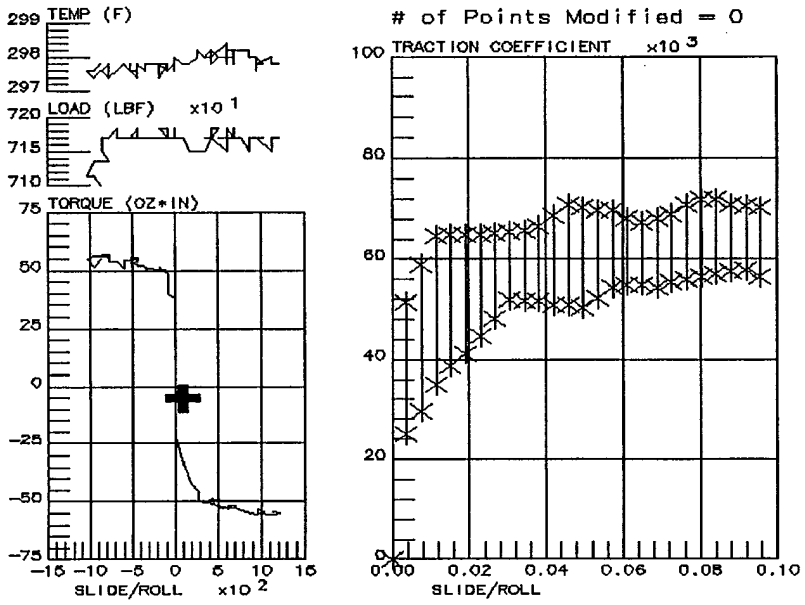
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #232
300F 8LBF 152RPM 7 FILE: bq30012



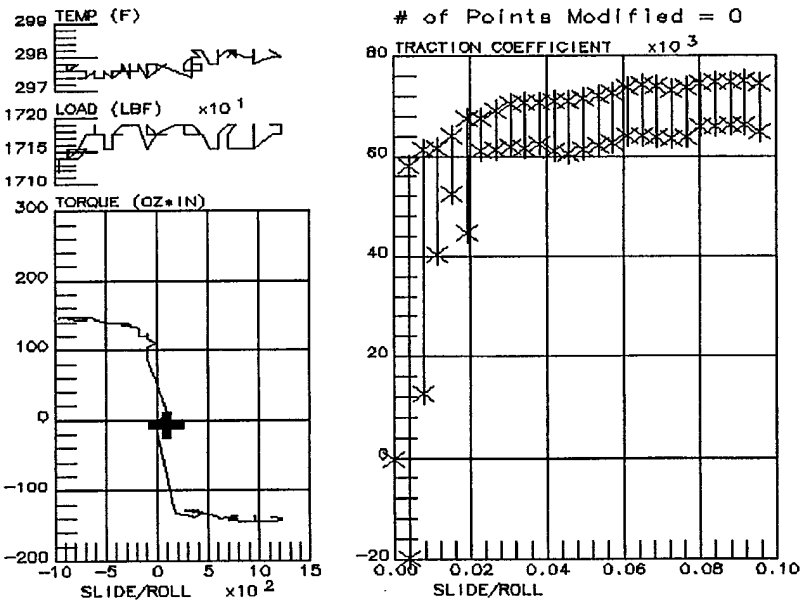
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #233
300F 21LBF 152RPM 8 FILE: bq30012



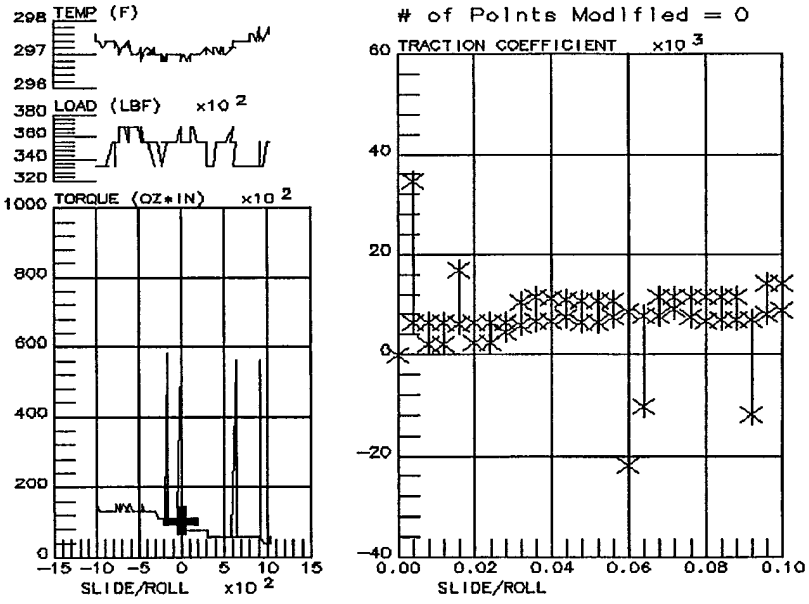
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #234
300F 72LBF 152RPM 9 FILE: bq30012



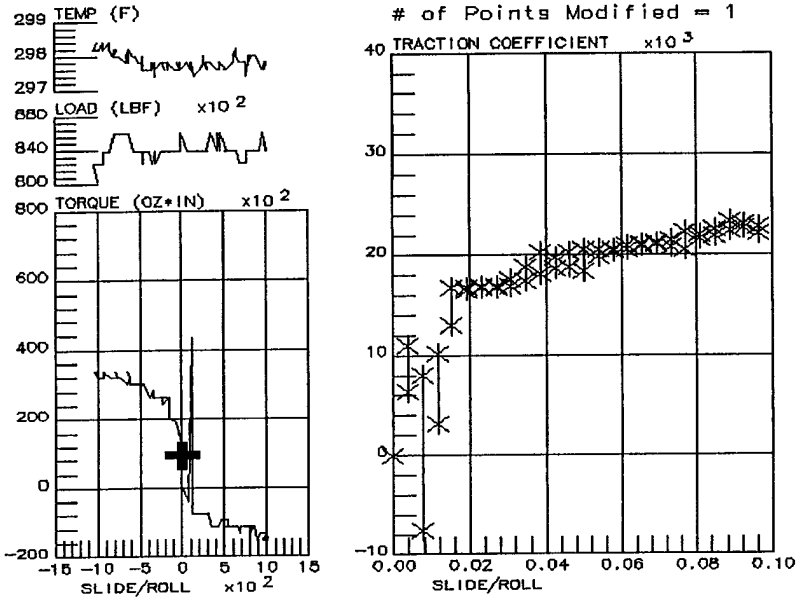
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #235
300F 172LBF 152RPM 10 FILE: bq30012



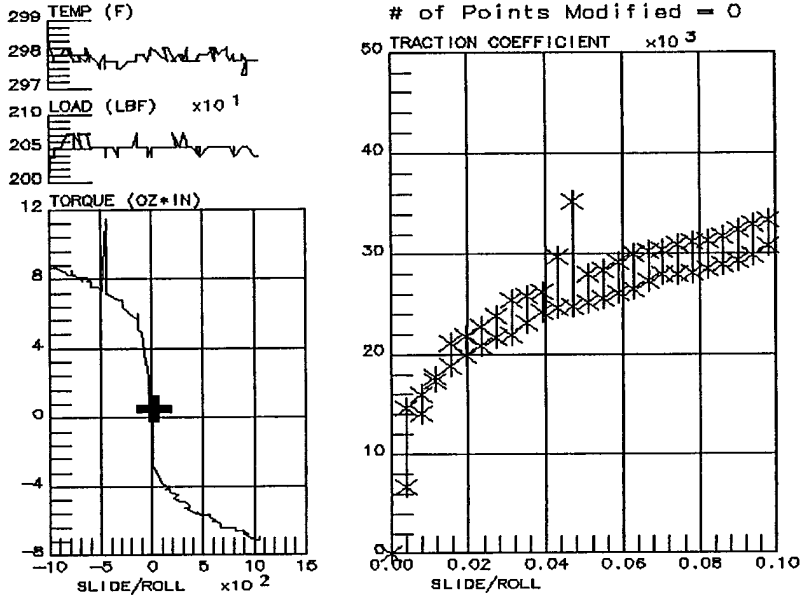
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #236
300F 3LBF 343RPM 11 FILE: bq30012



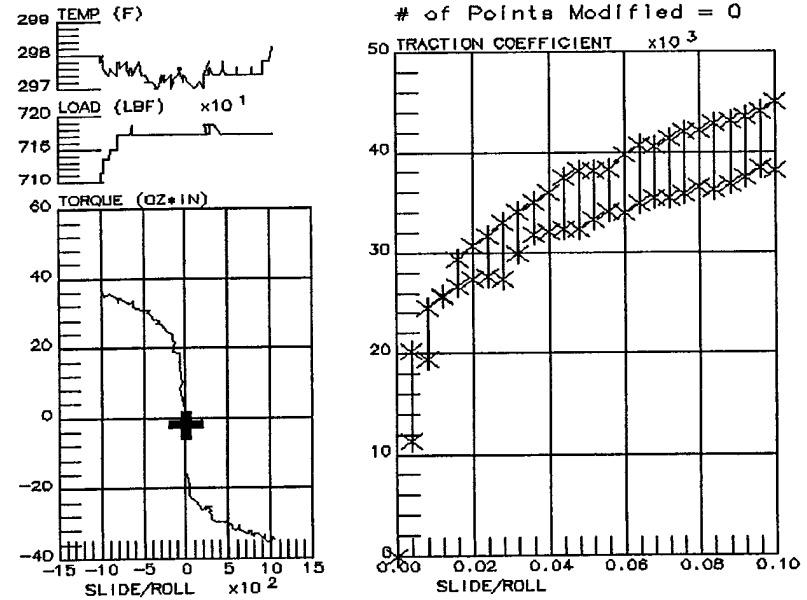
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #237
300F 8LBF 343RPM 12 FILE: bq30012



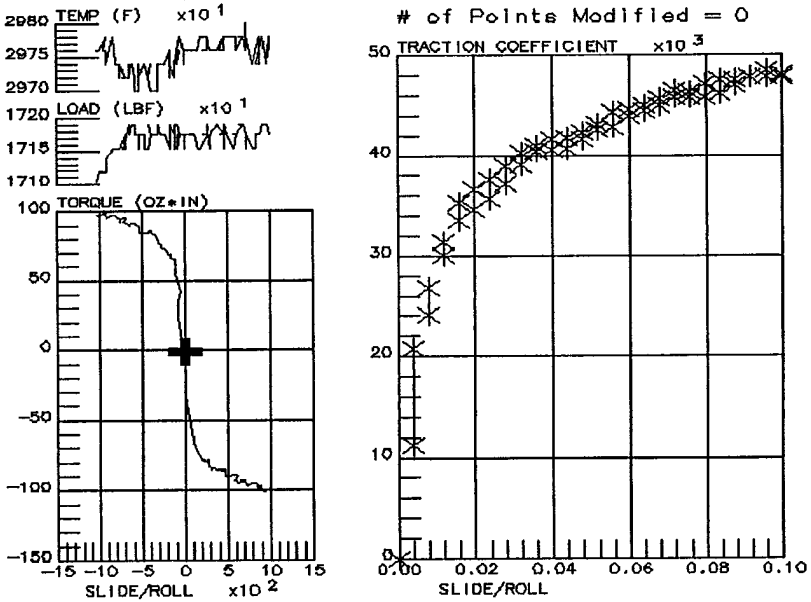
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #238
300F 21LBF 343RPM 13 FILE: bq30012



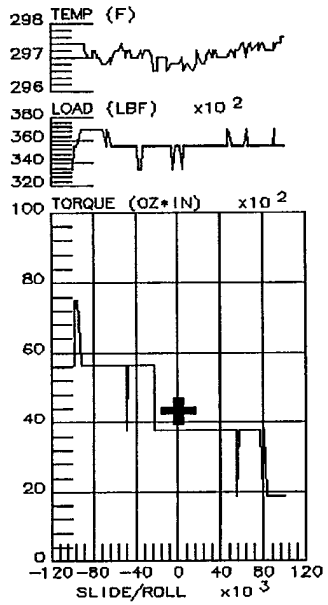
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #239
300F 72LBF 343RPM 14 FILE: bq30012

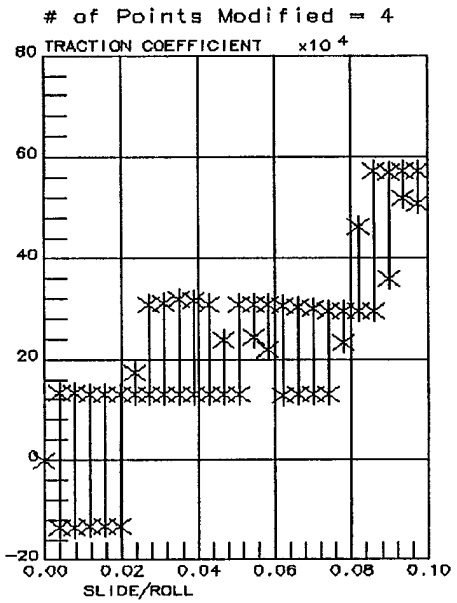


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #240
300F 172LBF 343RPM 15 FILE: bq30012

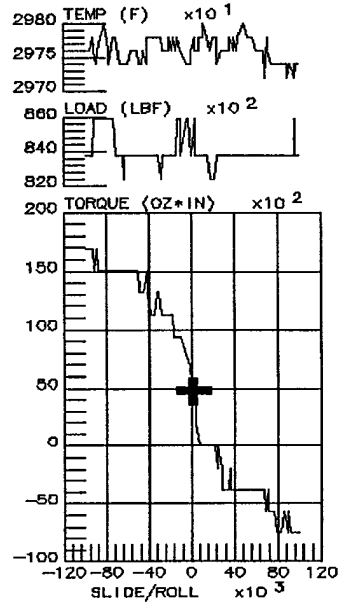


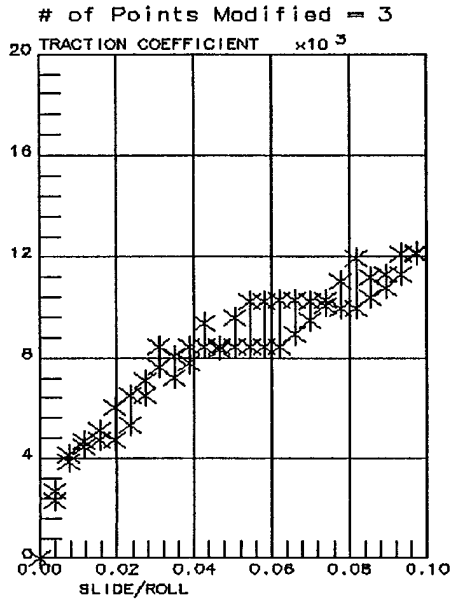
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #241
300F 3LBF 650RPM 16 FILE: bq30012



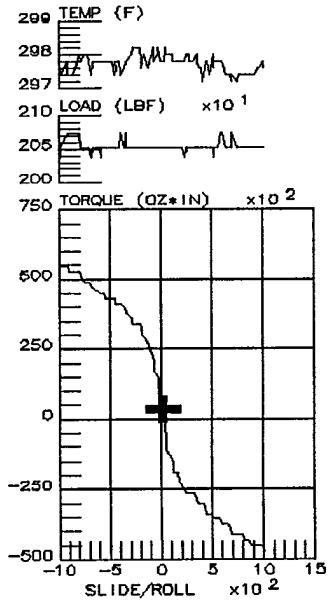


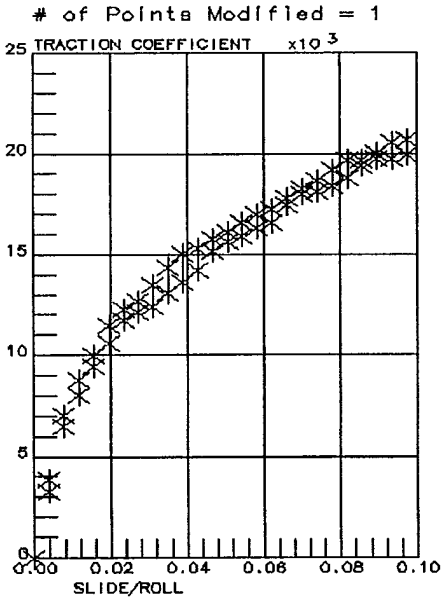
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #242
300F 8LBF 650RPM 17 FILE: bq30012



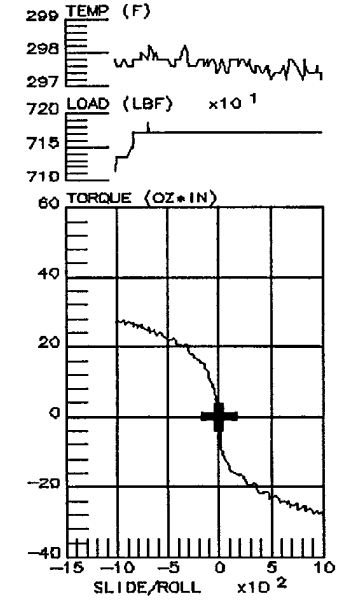


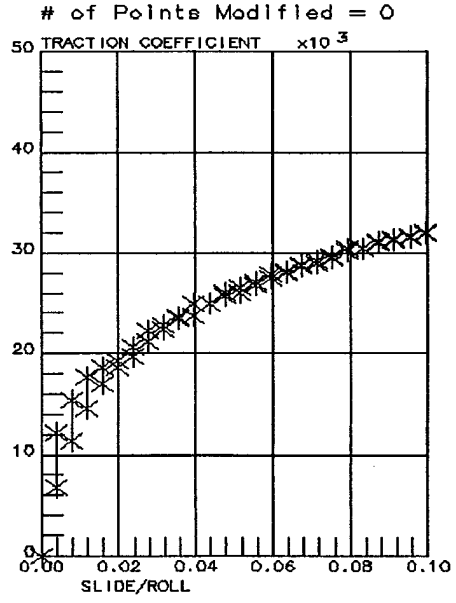
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #243
300F 21LBF 650RPM 18 FILE: bq30012



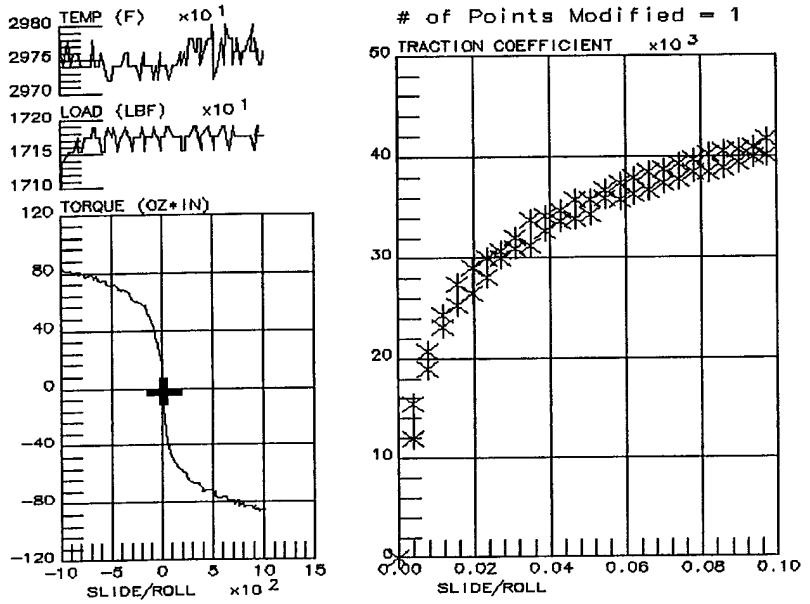


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #244
300F 72LBF 650RPM 19 FILE: bq30012

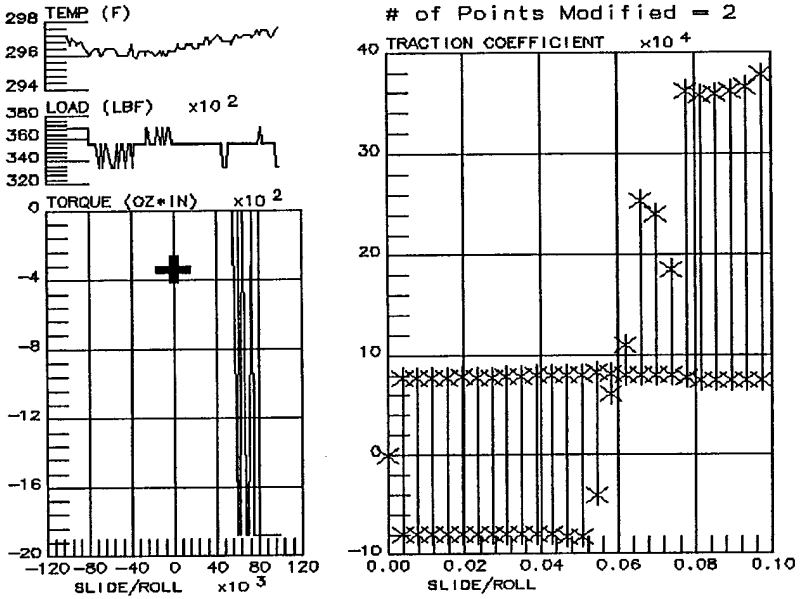




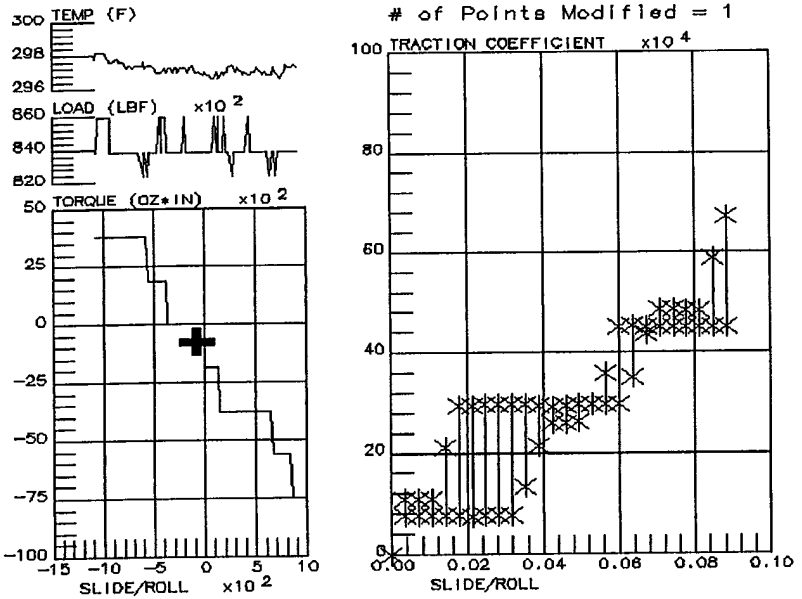
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #245
300F 172LBF 650RPM 20 FILE: bq30012



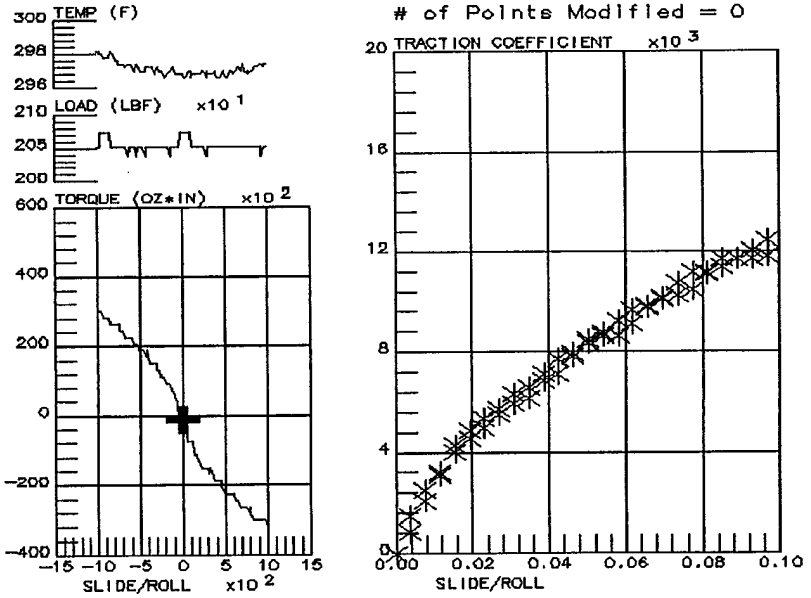
BQ 81-288 ApiezonC+5%Bardhal(VacKote) #246
300F 3LBF 1260RPM 21 FILE: bq30012

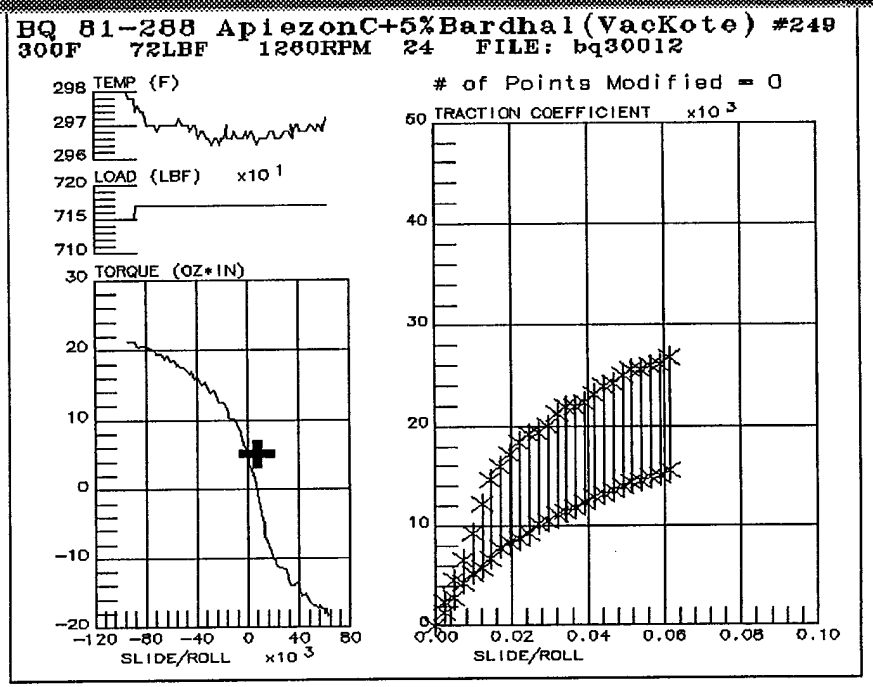


BQ 81-288 ApiezonC+5%Bardhal(VacKote) #247
300F 8LBF 1260RPM 22 FILE: bq30012



BQ 81-288 ApiezonC+5%Bardhal(VacKote) #248
300F 21LBF 1260RPM 23 FILE: bq30012

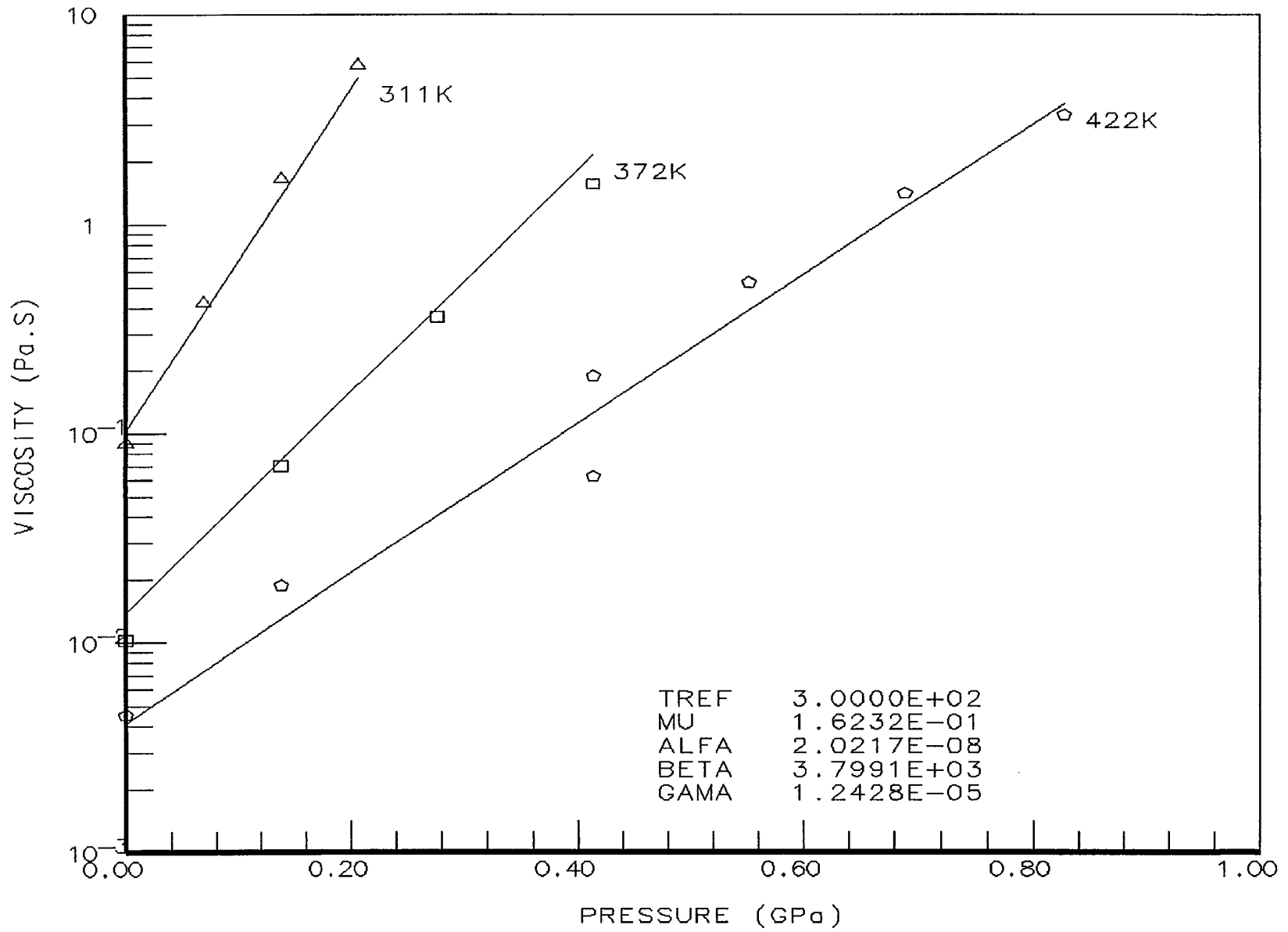



BQ 81-288 ApiezonC+5%Bardhal(VacKote) #249
300F 72LBF 1260RPM 24 FILE: bq30012
# of Points Modified = 0
TEMP (F)
298
297
296
LOAD (LBF) x10 1
720
715
710
TORQUE (OZ*IN)
30
20
10
0
-10
-20
-120 -80 -40 0 40 80
SLIDE/ROLL x10 3
TRACTION COEFFICIENT x10 3
60
40
30
20
10
0
0.00 0.02 0.04 0.06 0.08 0.10
SLIDE/ROLL

Lubricant name = BQ 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1

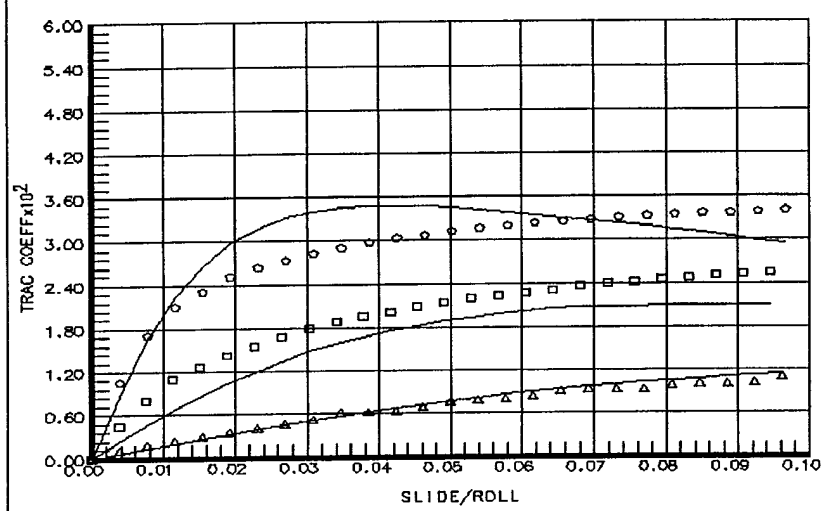
Dataset Name	Inlet Temp (K)	Roll Velocity (M/S)	XMU* (Pa.S)	ALFA* (1/Pa)	BETA* (1/K)
bq1.dat	3.0000E+02	1.0134E+01	2.2331E+00	6.0000E-09	4.5895E-02
bq2.dat	3.0000E+02	1.5239E+01	1.3450E+00	6.0000E-09	3.9419E-02
bq3.dat	3.0000E+02	2.0344E+01	1.6764E+00	6.0000E-09	4.2466E-02
bq4.dat	3.1111E+02	1.0134E+01	1.8310E+00	6.0000E-09	5.1299E-02
bq5.dat	3.1111E+02	1.5239E+01	1.5317E+00	6.0000E-09	4.2507E-02
bq6.dat	3.1111E+02	2.0344E+01	1.6084E+00	6.0000E-09	4.7823E-02
bq7.dat	3.3889E+02	1.0134E+01	1.1687E+00	6.0000E-09	7.1693E-02
bq8.dat	3.3889E+02	1.5239E+01	9.9167E-01	6.0000E-09	5.8403E-02
bq9.dat	3.3889E+02	2.0344E+01	1.2157E+00	6.0000E-09	5.6433E-02
bq10.dat	3.6667E+02	1.0134E+01	5.3986E-01	6.0000E-09	1.1356E-01
bq11.dat	3.6667E+02	1.5239E+01	4.8718E-01	6.0000E-09	7.1228E-02
bq12.dat	3.6667E+02	2.0344E+01	6.3070E-01	6.0000E-09	7.2406E-02
bq13.dat	3.9444E+02	1.0134E+01	2.0677E-01	6.0000E-09	1.5511E-01
bq14.dat	3.9444E+02	1.5239E+01	1.9667E-01	6.0000E-09	1.0585E-01
bq15.dat	3.9444E+02	2.0344E+01	3.0396E-01	6.0000E-09	1.0410E-01
bq16.dat	4.2222E+02	1.0134E+01	7.4079E-02	6.0000E-09	2.3535E-01
bq17.dat	4.2222E+02	1.5239E+01	8.1026E-02	6.0000E-09	1.5502E-01


81-288 VAC Kote
Viscosity Model Type 2
VISCOSITY (Pa.S)
10
1
10⁻¹
10⁻²
10⁻³
311K
372K
422K
TREF 3.0000E+02
MU 1.6232E-01
ALFA 2.0217E-08
BETA 3.7991E+03
GAMA 1.2428E-05
0.00
0.20
0.40
0.60
0.80
1.00
PRESSURE (GPa)

BQ 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1 bq13.dat

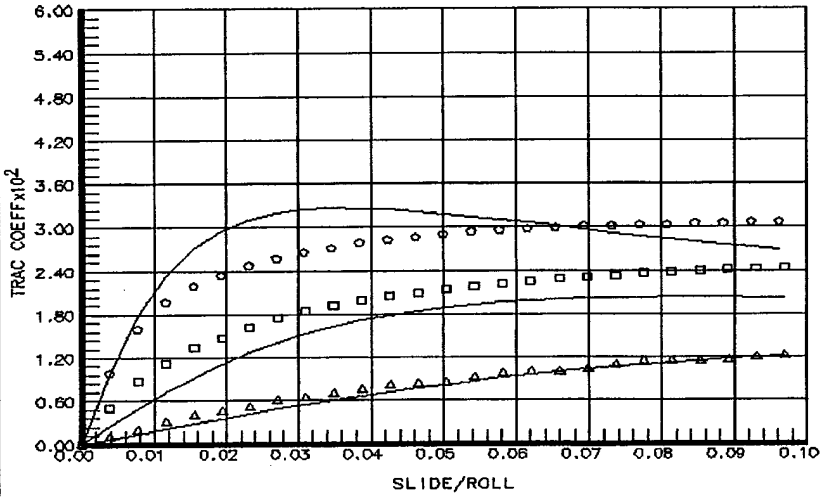
					XMU*	ALFA*	BETA*
△	599MPA	93N	10.13M/S	394K #174	2.068E-01	6.000E-09	1.561E-01
□	909MPA	320N	10.13M/S	394K #175	2.068E-01	6.000E-09	1.561E-01
○	1217MPA	765N	10.13M/S	394K #176	2.068E-01	6.000E-09	1.561E-01



BQ 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1 bq14.dat

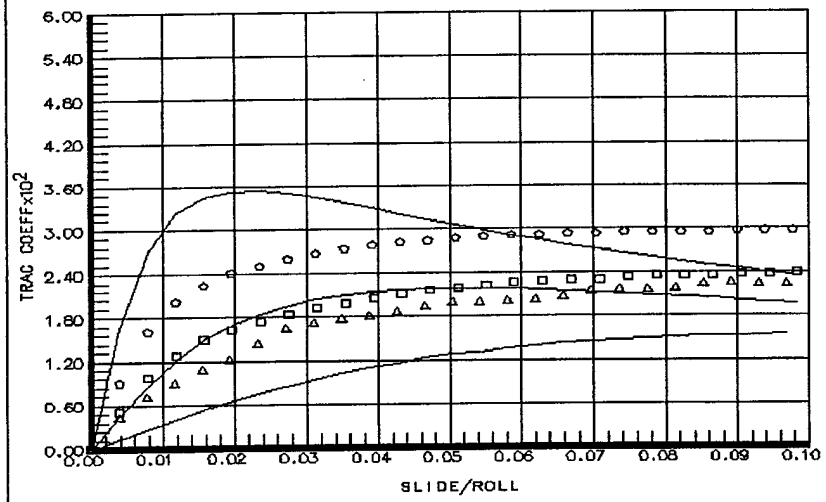
					XMU*	ALFA*	BETA*
△	599MPA	93N	15.24M/S	394K #179	1.967E-01	6.000E-09	1.059E-01
□	909MPA	320N	15.24M/S	394K #180	1.967E-01	6.000E-09	1.059E-01
○	1217MPA	765N	15.24M/S	394K #181	1.967E-01	6.000E-09	1.059E-01



BQ 81-288 ApiezonC+5%Bardhal(VacKote)

NEWTONIAN MODEL TYPE 1 bq15.dat

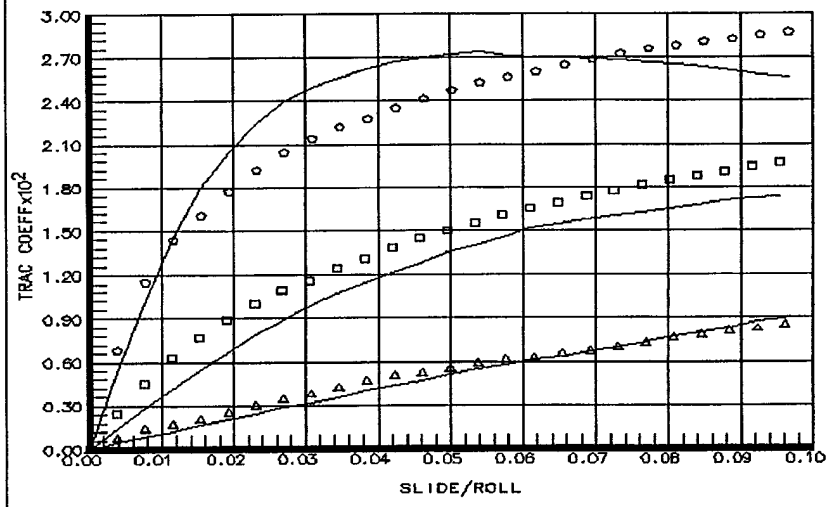
					XMU*	ALFA*	BETA*
△	600MPA	93N	20.34M/S	394K #184	3.040E-01	6.000E-09	1.041E-01
□	909MPA	320N	20.34M/S	394K #185	3.040E-01	6.000E-09	1.041E-01
○	1217MPA	765N	20.34M/S	394K #186	3.040E-01	6.000E-09	1.041E-01



BQ 81-288 ApiezonC+5%Bardhal(VacKote)

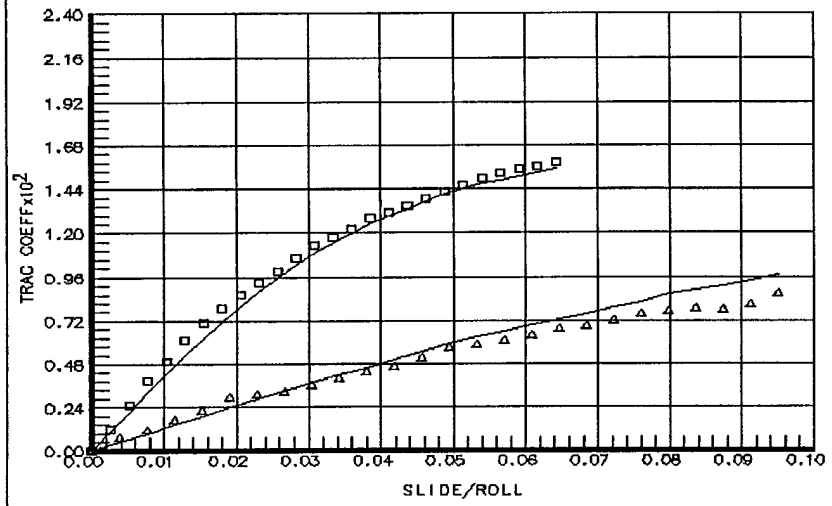
NEWTONIAN MODEL TYPE 1 bq16.dat

					XMU*	ALFA*	BETA*
△	599MPA	93N	10.13M/S	422K #219	7.408E-02	6.000E-09	2.354E-01
□	909MPA	320N	10.13M/S	422K #220	7.408E-02	6.000E-09	2.354E-01
○	1217MPA	765N	10.13M/S	422K #221	7.408E-02	6.000E-09	2.354E-01



BQ 81-288 ApiezonC+5%Bardhal(VacKote)
NEWTONIAN MODEL TYPE 1 bqi7.dat

					XMU*	ALFA*	BETA*
△	599MPA	93N	15.24M/S	422K #224	8.103E-02	6.000E-09	1.550E-01
□	910MPA	320N	15.24M/S	422K #225	8.103E-02	6.000E-09	1.550E-01



11. Traction Data Set J: 90-715 Hatcol 3110

Data set name: CO 90-715 ~220 Hatcol 3110
Rolling radii [Disks 1 & 2] (in): 0.75 0.75
Crown radii [Disks 1 & 2] (in): 0.70 0.68

Number of data sets found = 258

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
1	80.00	8.30	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	1.87E-03	co80vl #1
2	80.00	19.68	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	1.52E-03	co80vl #2
3	80.00	38.44	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	1.16E-03	co80vl #3
4	80.00	66.43	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	7.80E-03	co80vl #4
5	80.00	8.30	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	2.28E-04	co80vl #5
6	80.00	19.68	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	2.26E-03	co80vl #6
7	80.00	38.44	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	2.00E-03	co80vl #7
8	80.00	66.43	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	2.28E-04	co80vl #8
9	80.00	8.30	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	8.10E-05	co80vl #9
10	80.00	19.68	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	1.92E-04	co80vl #10
11	80.00	38.44	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	3.45E-04	co80vl #11
12	80.00	66.43	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	6.24E-04	co80vl #12
13	80.00	8.30	2435.00	2696.00	2565.50	30	0.71	1.49	1.00	1.00	1.00	8.08E-03	co80vl #13
14	80.00	19.68	2435.00	2696.00	2565.50	30	0.71	1.49	1.00	1.00	1.00	4.32E-04	co80vl #14
15	80.00	38.44	2435.00	2696.00	2565.50	30	0.71	1.49	1.00	1.00	1.00	7.87E-04	co80vl #15
16	80.00	66.43	2435.00	2696.00	2565.50	30	0.71	1.49	1.00	1.00	1.00	5.90E-04	co80vl #16
17	80.00	8.30	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	1.02E-02	co80med #1
18	80.00	19.68	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	2.97E-03	co80med #2
19	80.00	38.44	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	1.26E-03	co80med #3
20	80.00	66.43	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	2.41E-04	co80med #4
21	80.00	8.30	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	9.63E-04	co80med #5
22	80.00	19.68	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	5.91E-04	co80med #6
23	80.00	38.44	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	6.39E-04	co80med #7
24	80.00	66.43	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	1.02E-03	co80med #8
25	80.00	8.30	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	4.11E-04	co80med #9
26	80.00	19.68	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	1.31E-04	co80med #10
27	80.00	38.44	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	7.87E-05	co80med #11
28	80.00	66.43	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	1.47E-04	co80med #12
29	80.00	8.30	2435.00	2700.00	2567.50	30	0.71	1.49	1.00	1.00	1.00	1.23E-03	co80med #13
30	80.00	19.68	2435.00	2700.00	2567.50	30	0.71	1.49	1.00	1.00	1.00	3.45E-04	co80med #14
31	80.00	38.44	2435.00	2700.00	2567.50	30	0.71	1.49	1.00	1.00	1.00	6.08E-04	co80med #15
32	80.00	66.43	2435.00	2700.00	2567.50	30	0.71	1.49	1.00	1.00	1.00	2.67E-04	co80med #16
33	80.00	8.30	4842.00	5352.00	5097.00	50	0.71	1.49	1.00	1.00	1.00	1.99E-03	co80vh #1
34	80.00	19.68	4842.00	5352.00	5097.00	50	0.71	1.49	1.00	1.00	1.00	4.32E-04	co80vh #2
35	80.00	38.44	4842.00	5352.00	5097.00	50	0.71	1.49	1.00	1.00	1.00	1.02E-03	co80vh #3
36	80.00	66.43	4842.00	5352.00	5097.00	50	0.71	1.49	1.00	1.00	1.00	2.58E-05	co80vh #4
37	80.00	8.30	7280.00	8050.00	7665.00	50	0.71	1.49	1.00	1.00	1.00	1.21E-03	co80vh #5
38	80.00	19.68	7280.00	8050.00	7665.00	50	0.71	1.49	1.00	1.00	1.00	1.64E-04	co80vh #6
39	80.00	38.44	7280.00	8050.00	7665.00	50	0.71	1.49	1.00	1.00	1.00	1.18E-04	co80vh #7
40	80.00	66.43	7280.00	8050.00	7665.00	50	0.71	1.49	1.00	1.00	1.00	1.68E-04	co80vh #8
41	80.00	8.30	9700.00	10750.00	10225.00	50	0.71	1.49	1.00	1.00	1.00	8.60E-03	co80vh #9
42	80.00	19.68	9700.00	10750.00	10225.00	50	0.71	1.49	1.00	1.00	1.00	4.83E-04	co80vh #10
43	80.00	38.44	9700.00	10750.00	10225.00	50	0.71	1.49	1.00	1.00	1.00	5.39E-04	co80vh #11
44	80.00	66.43	9700.00	10750.00	10225.00	50	0.71	1.49	1.00	1.00	1.00	1.03E-04	co80vh #12
45	100.00	8.30	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	9.97E-04	co100vl #1
46	100.00	19.68	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	2.06E-04	co100vl #2
47	100.00	38.44	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	1.27E-03	co100vl #3
48	100.00	66.43	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	9.88E-04	co100vl #4
49	100.00	8.30	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	1.15E-03	co100vl #5
50	100.00	19.68	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	1.14E-03	co100vl #6

Data set: CO 90-715 ~220 Hatcol 3110 ....continued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
51	100.00	38.44	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	1.07E-03	co100vl #7
52	100.00	66.43	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	6.78E-04	co100vl #8
53	100.00	8.30	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	1.84E-04	co100vl #9
54	100.00	19.68	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	1.90E-04	co100vl #10
55	100.00	38.44	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	9.71E-05	co100vl #11
56	100.00	66.43	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	2.09E-04	co100vl #12
57	100.00	8.30	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	1.33E-04	co100vlx #1
58	100.00	19.68	2400.00	2670.00	2535.00	30	0.71	1.49	1.00	1.00	1.00	3.00E-04	co100vlx #14
59	100.00	38.44	2400.00	2670.00	2535.00	30	0.71	1.49	1.00	1.00	1.00	7.35E-05	co100vlx #15
60	100.00	66.43	2400.00	2670.00	2535.00	30	0.71	1.49	1.00	1.00	1.00	9.82E-05	co100vlx #16
61	100.00	8.30	290.00	322.00	306.00	40	0.71	1.49	1.00	1.00	1.00	4.87E-04	co100med #1
62	100.00	19.68	290.00	322.00	306.00	50	0.71	1.49	1.00	1.00	1.00	1.15E-03	co100med #2
63	100.00	38.44	290.00	322.00	306.00	2	0.71	1.49	1.00	1.00	1.00	1.40E-18	co100med #3
64	100.00	8.30	290.00	322.00	306.00	26	0.71	1.49	1.00	1.00	1.00	1.11E-03	co100mex #1
65	100.00	19.68	290.00	322.00	306.00	29	0.71	1.49	1.00	1.00	1.00	5.37E-04	co100mex #2
66	100.00	38.44	290.00	322.00	306.00	28	0.71	1.49	1.00	1.00	1.00	1.56E-03	co100mex #3
67	100.00	66.43	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	1.89E-03	co100mex #4
68	100.00	8.30	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	5.48E-04	co100mex #5
69	100.00	19.68	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	1.19E-04	co100mex #6
70	100.00	38.44	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	2.85E-04	co100mex #7
71	100.00	66.43	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	1.52E-04	co100mex #8
72	100.00	8.30	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	1.12E-04	co100mex #9
73	100.00	19.68	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	1.27E-04	co100mex #10
74	100.00	38.44	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	4.38E-05	co100mex #11
75	100.00	66.43	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	1.54E-05	co100mex #12
76	100.00	8.30	2435.00	2690.00	2562.50	30	0.71	1.49	1.00	1.00	1.00	1.15E-03	co100mex #13
77	100.00	19.68	2435.00	2690.00	2562.50	30	0.71	1.49	1.00	1.00	1.00	1.42E-04	co100mex #14
78	100.00	38.44	2435.00	2690.00	2562.50	30	0.71	1.49	1.00	1.00	1.00	2.53E-04	co100mex #15
79	100.00	66.43	2435.00	2690.00	2562.50	30	0.71	1.49	1.00	1.00	1.00	7.60E-05	co100mex #16
80	100.00	8.30	4842.00	5352.00	5097.00	50	0.71	1.49	1.00	1.00	1.00	2.77E-04	co100vh #1
81	100.00	19.68	4842.00	5352.00	5097.00	50	0.71	1.49	1.00	1.00	1.00	2.01E-04	co100vh #2
82	100.00	38.44	4842.00	5352.00	5097.00	50	0.71	1.49	1.00	1.00	1.00	2.03E-04	co100vh #3
83	100.00	66.43	4842.00	5352.00	5097.00	50	0.71	1.49	1.00	1.00	1.00	1.18E-04	co100vh #4
84	100.00	8.30	7280.00	8050.00	7665.00	50	0.71	1.49	1.00	1.00	1.00	1.28E-03	co100vh #5
85	100.00	19.68	7280.00	8050.00	7665.00	50	0.71	1.49	1.00	1.00	1.00	1.17E-03	co100vh #6
86	100.00	38.44	7280.00	8050.00	7665.00	50	0.71	1.49	1.00	1.00	1.00	2.27E-04	co100vh #7
87	100.00	66.43	7280.00	8050.00	7665.00	50	0.71	1.49	1.00	1.00	1.00	8.20E-05	co100vh #8
88	100.00	8.30	9700.00	10750.00	10225.00	50	0.71	1.49	1.00	1.00	1.00	2.13E-03	co100vh #9
89	100.00	19.68	9700.00	10750.00	10225.00	50	0.71	1.49	1.00	1.00	1.00	2.37E-04	co100vh #10
90	100.00	38.44	9700.00	10750.00	10225.00	50	0.71	1.49	1.00	1.00	1.00	9.73E-05	co100vh #11
91	100.00	66.43	9700.00	10750.00	10225.00	50	0.71	1.49	1.00	1.00	1.00	1.71E-04	co100vh #12
92	150.00	8.30	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	1.09E-03	co150vl #1
93	150.00	19.68	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	5.03E-04	co150vl #2
94	150.00	38.44	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	2.15E-04	co150vl #3
95	150.00	66.43	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	1.84E-03	co150vl #4
96	150.00	8.30	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	1.39E-03	co150vl #5
97	150.00	19.68	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	2.76E-04	co150vl #6
98	150.00	38.44	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	6.65E-05	co150vl #7
99	150.00	66.43	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	8.91E-05	co150vl #8
100	150.00	8.30	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	3.24E-04	co150vl #9
101	150.00	19.68	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	1.44E-04	co150vl #10
102	150.00	38.44	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	8.65E-05	co150vl #11
103	150.00	66.43	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	1.62E-04	co150vl #12
104	150.00	8.30	2435.00	2690.00	2562.50	30	0.71	1.49	1.00	1.00	1.00	6.67E-05	co150vl #13
105	150.00	19.68	2435.00	2690.00	2562.50	30	0.71	1.49	1.00	1.00	1.00	3.01E-04	co150vl #14
106	150.00	38.44	2435.00	2690.00	2562.50	30	0.71	1.49	1.00	1.00	1.00	4.52E-05	co150vl #15
107	150.00	66.43	2435.00	2690.00	2562.50	30	0.71	1.49	1.00	1.00	1.00	2.16E-04	co150vl #16
108	150.00	8.30	290.00	322.00	306.00	29	0.71	1.49	1.00	1.00	1.00	5.01E-03	co150med #1
109	150.00	19.68	290.00	322.00	306.00	27	0.71	1.49	1.00	1.00	1.00	3.64E-04	co150med #2
110	150.00	38.44	290.00	322.00	306.00	26	0.71	1.49	1.00	1.00	1.00	3.99E-04	co150med #3
111	150.00	66.43	290.00	322.00	306.00	28	0.71	1.49	1.00	1.00	1.00	7.46E-04	co150med #4
112	150.00	8.30	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	6.54E-04	co150med #5
113	150.00	19.68	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	3.44E-04	co150med #6
114	150.00	38.44	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	1.10E-03	co150med #7
115	150.00	66.43	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	2.41E-04	co150med #8
116	150.00	8.30	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	1.02E-03	co150med #9
117	150.00	19.68	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	4.89E-04	co150med #10
118	150.00	38.44	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	3.59E-04	co150med #11
119	150.00	66.43	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	1.09E-04	co150med #12
120	150.00	8.30	2435.00	2690.00	2562.50	30	0.71	1.49	1.00	1.00	1.00	1.90E-04	co150med #13

Data set: CO 90-715 ~220 Hatcol 3110 ....continued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
121	150.00	19.68	2435.00	2690.00	2562.50	30	0.71	1.49	1.00	1.00	1.00	2.07E-05	co150med #14
122	150.00	8.30	4842.00	5352.00	5097.00	50	0.71	1.49	1.00	1.00	1.00	4.80E-04	co150vh #1
123	150.00	19.68	4842.00	5352.00	5097.00	50	0.71	1.49	1.00	1.00	1.00	1.29E-04	co150vh #2
124	150.00	38.44	4842.00	5352.00	5097.00	50	0.71	1.49	1.00	1.00	1.00	6.12E-04	co150vh #3
125	150.00	66.43	4842.00	5352.00	5097.00	50	0.71	1.49	1.00	1.00	1.00	3.78E-04	co150vh #4
126	150.00	8.30	7280.00	8050.00	7665.00	50	0.71	1.49	1.00	1.00	1.00	1.06E-03	co150vh #5
127	150.00	19.68	7280.00	8050.00	7665.00	50	0.71	1.49	1.00	1.00	1.00	7.34E-05	co150vh #6
128	150.00	38.44	7280.00	8050.00	7665.00	50	0.71	1.49	1.00	1.00	1.00	1.04E-04	co150vh #7
129	150.00	66.43	7280.00	8050.00	7665.00	50	0.71	1.49	1.00	1.00	1.00	2.96E-04	co150vh #8
130	150.00	8.30	9700.00	10750.00	10225.00	50	0.71	1.49	1.00	1.00	1.00	2.23E-04	co150vh #9
131	150.00	19.68	9700.00	10750.00	10225.00	50	0.71	1.49	1.00	1.00	1.00	3.29E-04	co150vh #10
132	150.00	38.44	9700.00	10750.00	10225.00	50	0.71	1.49	1.00	1.00	1.00	1.25E-04	co150vh #11
133	150.00	66.43	9700.00	10750.00	10225.00	50	0.71	1.49	1.00	1.00	1.00	9.03E-05	co150vh #12
134	200.00	8.30	290.00	322.00	306.00	27	0.71	1.49	1.00	1.00	1.00	9.33E-03	co20-30l #1
135	200.00	19.68	290.00	322.00	306.00	28	0.71	1.49	1.00	1.00	1.00	1.01E-03	co20-30l #2
136	200.00	38.44	290.00	322.00	306.00	29	0.71	1.49	1.00	1.00	1.00	1.08E-04	co20-30l #3
137	200.00	8.30	618.00	684.00	651.00	29	0.71	1.49	1.00	1.00	1.00	6.92E-04	co20-30l #4
138	200.00	19.68	618.00	684.00	651.00	27	0.71	1.49	1.00	1.00	1.00	6.93E-04	co20-30l #5
139	200.00	38.44	618.00	684.00	651.00	29	0.71	1.49	1.00	1.00	1.00	8.93E-04	co20-30l #6
140	250.00	8.30	290.00	322.00	306.00	29	0.71	1.49	1.00	1.00	1.00	2.53E-03	co20-30l #7
141	250.00	19.68	290.00	322.00	306.00	26	0.71	1.49	1.00	1.00	1.00	1.19E-03	co20-30l #8
142	250.00	38.44	290.00	322.00	306.00	29	0.71	1.49	1.00	1.00	1.00	3.52E-04	co20-30l #9
143	250.00	8.30	618.00	684.00	651.00	29	0.71	1.49	1.00	1.00	1.00	1.94E-03	co20-30l #10
144	250.00	19.68	618.00	684.00	651.00	27	0.71	1.49	1.00	1.00	1.00	7.99E-04	co20-30l #11
145	250.00	38.44	618.00	684.00	651.00	28	0.71	1.49	1.00	1.00	1.00	1.95E-03	co20-30l #12
146	300.00	8.30	290.00	322.00	306.00	29	0.71	1.49	1.00	1.00	1.00	1.45E-03	co20-30l #13
147	300.00	19.68	290.00	322.00	306.00	25	0.71	1.49	1.00	1.00	1.00	1.02E-03	co20-30l #14
148	300.00	38.44	290.00	322.00	306.00	26	0.71	1.49	1.00	1.00	1.00	2.19E-03	co20-30l #15
149	300.00	8.30	618.00	684.00	651.00	29	0.71	1.49	1.00	1.00	1.00	1.65E-03	co20-30l #16
150	300.00	19.68	618.00	684.00	651.00	29	0.71	1.49	1.00	1.00	1.00	7.71E-04	co20-30l #17
151	300.00	38.44	618.00	684.00	651.00	28	0.71	1.49	1.00	1.00	1.00	9.07E-04	co20-30l #18
152	200.00	8.30	290.00	322.00	306.00	27	0.71	1.49	1.00	1.00	1.00	9.33E-03	co20-30m #1
153	200.00	19.68	290.00	322.00	306.00	28	0.71	1.49	1.00	1.00	1.00	1.01E-03	co20-30m #2
154	200.00	38.44	290.00	322.00	306.00	29	0.71	1.49	1.00	1.00	1.00	1.08E-04	co20-30m #3
155	200.00	8.30	618.00	684.00	651.00	29	0.71	1.49	1.00	1.00	1.00	6.92E-04	co20-30m #4
156	200.00	19.68	618.00	684.00	651.00	27	0.71	1.49	1.00	1.00	1.00	6.93E-04	co20-30m #5
157	200.00	38.44	618.00	684.00	651.00	29	0.71	1.49	1.00	1.00	1.00	8.93E-04	co20-30m #6
158	250.00	8.30	290.00	322.00	306.00	29	0.71	1.49	1.00	1.00	1.00	2.53E-03	co20-30m #7
159	250.00	19.68	290.00	322.00	306.00	26	0.71	1.49	1.00	1.00	1.00	1.19E-03	co20-30m #8
160	250.00	38.44	290.00	322.00	306.00	29	0.71	1.49	1.00	1.00	1.00	3.52E-04	co20-30m #9
161	250.00	8.30	618.00	684.00	651.00	29	0.71	1.49	1.00	1.00	1.00	1.94E-03	co20-30m #10
162	250.00	19.68	618.00	684.00	651.00	27	0.71	1.49	1.00	1.00	1.00	7.99E-04	co20-30m #11
163	250.00	38.44	618.00	684.00	651.00	28	0.71	1.49	1.00	1.00	1.00	1.95E-03	co20-30m #12
164	300.00	8.30	290.00	322.00	306.00	29	0.71	1.49	1.00	1.00	1.00	1.45E-03	co20-30m #13
165	300.00	19.68	290.00	322.00	306.00	25	0.71	1.49	1.00	1.00	1.00	1.02E-03	co20-30m #14
166	300.00	38.44	290.00	322.00	306.00	26	0.71	1.49	1.00	1.00	1.00	2.19E-03	co20-30m #15
167	300.00	8.30	618.00	684.00	651.00	29	0.71	1.49	1.00	1.00	1.00	1.65E-03	co20-30m #16
168	300.00	19.68	618.00	684.00	651.00	29	0.71	1.49	1.00	1.00	1.00	7.71E-04	co20-30m #17
169	300.00	38.44	618.00	684.00	651.00	28	0.71	1.49	1.00	1.00	1.00	9.07E-04	co20-30m #18
170	200.00	8.30	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	3.03E-03	co200vl #1
171	200.00	19.68	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	3.33E-03	co200vl #2
172	200.00	38.44	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	4.63E-04	co200vl #3
173	200.00	66.43	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	1.27E-03	co200vl #4
174	200.00	8.30	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	2.76E-04	co200vl #5
175	200.00	19.68	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	2.87E-03	co200vl #6
176	200.00	38.44	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	9.04E-04	co200vl #7
177	200.00	66.43	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	3.04E-04	co200vl #8
178	200.00	8.30	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	1.55E-04	co200vl #9
179	200.00	19.68	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	3.17E-04	co200vl #10
180	200.00	38.44	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	7.88E-05	co200vl #11
181	200.00	66.43	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	1.03E-04	co200vl #12
182	200.00	8.30	2435.00	2690.00	2562.50	30	0.71	1.49	1.00	1.00	1.00	3.82E-04	co200vl #13
183	200.00	19.68	2435.00	2690.00	2562.50	30	0.71	1.49	1.00	1.00	1.00	7.55E-05	co200vl #14
184	200.00	38.44	2435.00	2690.00	2562.50	30	0.71	1.49	1.00	1.00	1.00	1.79E-04	co200vl #15
185	200.00	66.43	2435.00	2690.00	2562.50	30	0.71	1.49	1.00	1.00	1.00	2.14E-05	co200vl #16
186	200.00	8.30	4842.00	5352.00	5097.00	50	0.71	1.49	1.00	1.00	1.00	8.92E-04	co200vh #1
187	200.00	19.68	4842.00	5352.00	5097.00	50	0.71	1.49	1.00	1.00	1.00	3.13E-04	co200vh #2
188	200.00	38.44	4842.00	5352.00	5097.00	50	0.71	1.49	1.00	1.00	1.00	8.58E-05	co200vh #3
189	200.00	66.43	4842.00	5352.00	5097.00	50	0.71	1.49	1.00	1.00	1.00	4.79E-05	co200vh #4
190	200.00	8.30	7280.00	8050.00	7665.00	50	0.71	1.49	1.00	1.00	1.00	1.70E-03	co200vh #5

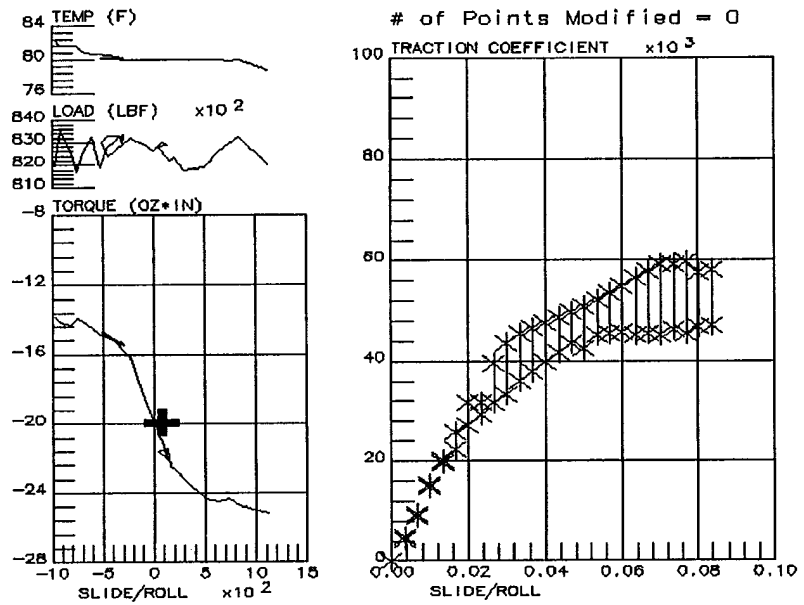
Data set: CO 90-715 -220 Hatcol 3110 ....continued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
191	200.00	19.68	7280.00	8050.00	7665.00	50	0.71	1.49	1.00	1.00	1.00	2.47E-05	co200vh #6
192	200.00	38.44	7280.00	8050.00	7665.00	50	0.71	1.49	1.00	1.00	1.00	1.14E-04	co200vh #7
193	200.00	66.43	7280.00	8050.00	7665.00	50	0.71	1.49	1.00	1.00	1.00	7.36E-05	co200vh #8
194	200.00	8.30	9700.00	10750.00	10225.00	50	0.71	1.49	1.00	1.00	1.00	1.85E-04	co200vh #9
195	200.00	19.68	9700.00	10750.00	10225.00	50	0.71	1.49	1.00	1.00	1.00	2.72E-04	co200vh #10
196	200.00	38.44	9700.00	10750.00	10225.00	50	0.71	1.49	1.00	1.00	1.00	2.20E-04	co200vh #11
197	200.00	66.43	9700.00	10750.00	10225.00	50	0.71	1.49	1.00	1.00	1.00	1.58E-04	co200vh #12
198	250.00	8.30	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	1.18E-03	co25-30m #1
199	250.00	19.68	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	2.98E-03	co25-30m #2
200	250.00	38.44	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	2.32E-03	co25-30m #3
201	250.00	66.43	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	9.15E-04	co25-30m #4
202	250.00	8.30	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	2.13E-03	co25-30m #5
203	250.00	19.68	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	2.11E-03	co25-30m #6
204	250.00	38.44	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	2.60E-03	co25-30m #7
205	250.00	66.43	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	2.29E-04	co25-30m #8
206	250.00	8.30	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	9.42E-04	co25-30m #9
207	250.00	19.68	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	4.44E-04	co25-30m #10
208	250.00	38.44	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	3.14E-04	co25-30m #11
209	250.00	66.43	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	2.04E-04	co25-30m #12
210	250.00	8.30	2435.00	2700.00	2567.50	30	0.71	1.49	1.00	1.00	1.00	5.85E-04	co25-30m #13
211	250.00	19.68	2435.00	2700.00	2567.50	30	0.71	1.49	1.00	1.00	1.00	2.65E-04	co25-30m #14
212	250.00	38.44	2435.00	2700.00	2567.50	30	0.71	1.49	1.00	1.00	1.00	5.31E-05	co25-30m #15
213	250.00	66.43	2435.00	2700.00	2567.50	30	0.71	1.49	1.00	1.00	1.00	1.02E-05	co25-30m #16
214	300.00	8.30	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	1.03E-02	co25-30m #17
215	300.00	19.68	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	1.19E-02	co25-30m #18
216	300.00	38.44	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	2.31E-03	co25-30m #19
217	300.00	66.43	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	1.03E-03	co25-30m #20
218	300.00	8.30	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	1.08E-03	co25-30m #21
219	300.00	19.68	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	3.21E-03	co25-30m #22
220	300.00	38.44	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	2.65E-02	co25-30m #23
221	300.00	66.43	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	4.05E-03	co25-30m #24
222	300.00	8.30	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	2.99E-03	co25-30m #25
223	300.00	19.68	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	9.83E-04	co25-30m #26
224	300.00	38.44	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	1.51E-03	co25-30m #27
225	300.00	66.43	1200.00	1328.00	1264.00	30	0.71	1.49	1.00	1.00	1.00	3.33E-04	co25-30m #28
226	300.00	8.30	2435.00	2700.00	2567.50	30	0.71	1.49	1.00	1.00	1.00	6.12E-04	co25-30m #29
227	300.00	19.68	2435.00	2700.00	2567.50	30	0.71	1.49	1.00	1.00	1.00	4.90E-04	co25-30m #30
228	300.00	38.44	2435.00	2700.00	2567.50	30	0.71	1.49	1.00	1.00	1.00	4.59E-04	co25-30m #31
229	300.00	66.43	2435.00	2700.00	2567.50	30	0.71	1.49	1.00	1.00	1.00	7.37E-04	co25-30m #32
230	250.00	8.30	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	4.91E-03	co250vl #1
231	250.00	19.68	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	2.98E-03	co250vl #2
232	250.00	38.44	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	2.91E-03	co250vl #3
233	250.00	66.43	290.00	322.00	306.00	30	0.71	1.49	1.00	1.00	1.00	2.26E-03	co250vl #4
234	250.00	8.30	618.00	684.00	651.00	30	0.71	1.49	1.00	1.00	1.00	7.63E-04	co250vl #5
235	250.00	8.30	4842.00	5352.00	5097.00	50	0.71	1.49	1.00	1.00	1.00	9.38E-04	co250vh #1
236	250.00	19.68	4842.00	5352.00	5097.00	50	0.71	1.49	1.00	1.00	1.00	2.73E-05	co250vh #2
237	250.00	38.44	4842.00	5352.00	5097.00	50	0.71	1.49	1.00	1.00	1.00	1.65E-04	co250vh #3
238	250.00	66.43	4842.00	5352.00	5097.00	50	0.71	1.49	1.00	1.00	1.00	8.12E-05	co250vh #4
239	250.00	8.30	7280.00	8050.00	7665.00	50	0.71	1.49	1.00	1.00	1.00	2.30E-03	co250vh #5
240	250.00	19.68	7280.00	8050.00	7665.00	50	0.71	1.49	1.00	1.00	1.00	5.61E-05	co250vh #6
241	250.00	38.44	7280.00	8050.00	7665.00	50	0.71	1.49	1.00	1.00	1.00	6.21E-05	co250vh #7
242	250.00	66.43	7280.00	8050.00	7665.00	50	0.71	1.49	1.00	1.00	1.00	1.29E-04	co250vh #8
243	250.00	8.30	9700.00	10750.00	10225.00	50	0.71	1.49	1.00	1.00	1.00	1.11E-04	co250vh #9
244	250.00	19.68	9700.00	10750.00	10225.00	50	0.71	1.49	1.00	1.00	1.00	1.90E-04	co250vh #10
245	250.00	38.44	9700.00	10750.00	10225.00	50	0.71	1.49	1.00	1.00	1.00	6.59E-05	co250vh #11
246	250.00	66.43	9700.00	10750.00	10225.00	50	0.71	1.49	1.00	1.00	1.00	6.01E-05	co250vh #12
247	300.00	8.30	4842.00	5352.00	5097.00	50	0.71	1.49	1.00	1.00	1.00	3.73E-04	co300vh #1
248	300.00	19.68	4842.00	5352.00	5097.00	50	0.71	1.49	1.00	1.00	1.00	2.00E-04	co300vh #2
249	300.00	38.44	4842.00	5352.00	5097.00	50	0.71	1.49	1.00	1.00	1.00	3.39E-05	co300vh #3
250	300.00	66.43	4842.00	5352.00	5097.00	50	0.71	1.49	1.00	1.00	1.00	3.60E-04	co300vh #4
251	300.00	8.30	7280.00	8050.00	7665.00	50	0.71	1.49	1.00	1.00	1.00	1.99E-03	co300vh #5
252	300.00	19.68	7280.00	8050.00	7665.00	50	0.71	1.49	1.00	1.00	1.00	5.01E-05	co300vh #6
253	300.00	38.44	7280.00	8050.00	7665.00	50	0.71	1.49	1.00	1.00	1.00	1.34E-04	co300vh #7
254	300.00	66.43	7280.00	8050.00	7665.00	50	0.71	1.49	1.00	1.00	1.00	1.05E-04	co300vh #8
255	300.00	8.30	9700.00	10750.00	10225.00	50	0.71	1.49	1.00	1.00	1.00	1.70E-04	co300vh #9
256	300.00	19.68	9700.00	10750.00	10225.00	50	0.71	1.49	1.00	1.00	1.00	9.84E-05	co300vh #10
257	300.00	38.44	9700.00	10750.00	10225.00	50	0.71	1.49	1.00	1.00	1.00	3.03E-04	co300vh #11
258	300.00	66.43	9700.00	10750.00	10225.00	50	0.71	1.49	1.00	1.00	1.00	2.87E-05	co300vh #12

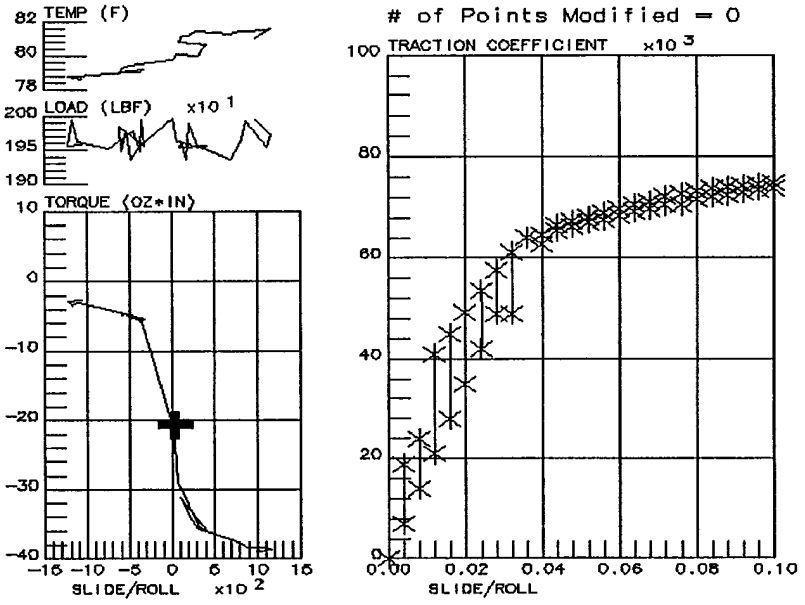
Summary of Select Data Files

Filename	Temp	RollRpm	DataCurve #		
co1.dat	80.00	1264.00	26	27	28
co2.dat	80.00	2566.00	14	15	16
co3.dat	80.00	5097.00	34	35	36
co4.dat	80.00	7665.00	38	39	40
co5.dat	80.00	10225.00	42	43	44
co6.dat	100.00	1264.00	73	74	75
co7.dat	100.00	5097.00	81	82	83
co8.dat	100.00	7665.00	85	86	87
co9.dat	100.00	10225.00	89	90	91
co10.dat	150.00	1264.00	101	102	119
co11.dat	150.00	5097.00	123	124	125
co12.dat	150.00	7665.00	127	128	129
co13.dat	150.00	10225.00	131	132	133
co14.dat	200.00	1264.00	179	180	181
co15.dat	200.00	5097.00	187	188	189
co16.dat	200.00	7665.00	191	192	193
co17.dat	200.00	10225.00	195	196	197
co18.dat	250.00	1264.00	207	208	209
co19.dat	250.00	5097.00	236	237	238
co20.dat	250.00	7665.00	240	241	242
co21.dat	250.00	10225.00	244	245	246
co22.dat	300.00	1264.00	223	224	225
co23.dat	300.00	5097.00	248	249	250
co24.dat	300.00	7665.00	252	253	254
co25.dat	300.00	10225.00	256	257	258

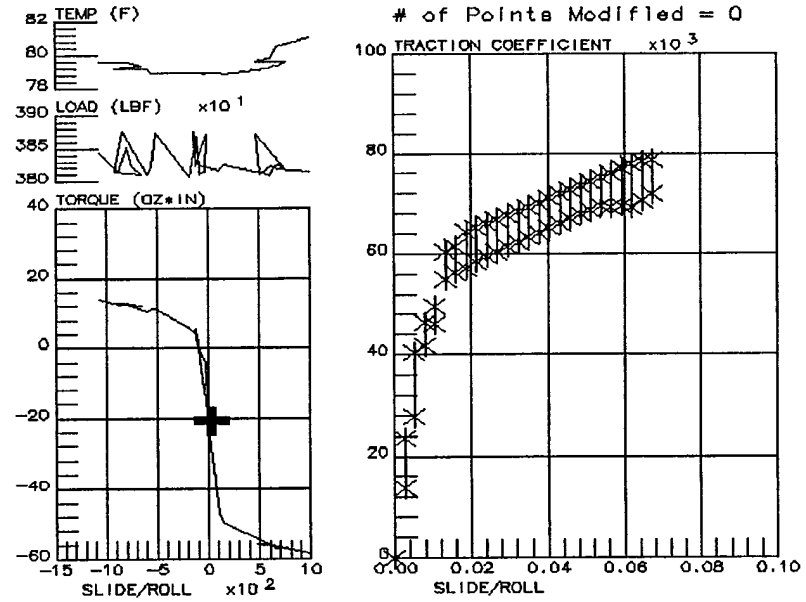
CO 90-715 ~220 Hatcol 3110 #1
80F 8LBF 306RPM 1 FILE: co80v1



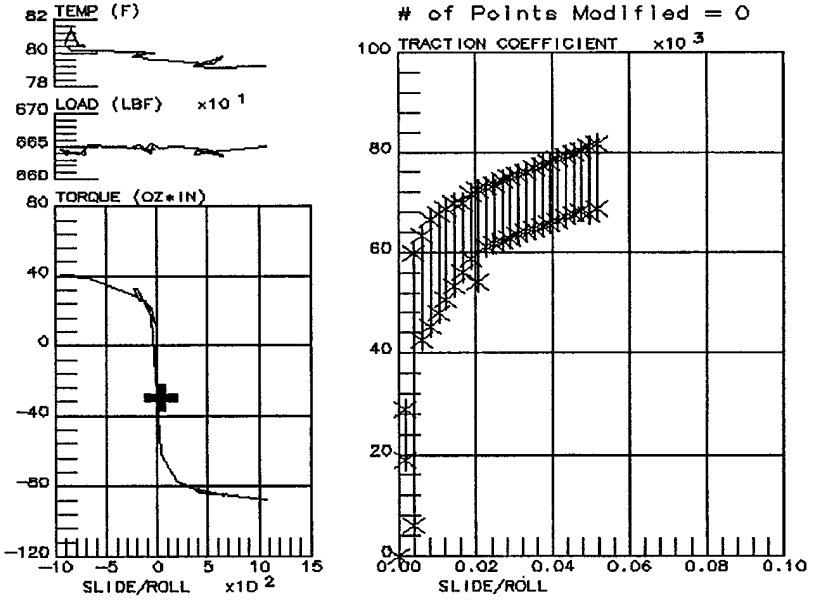
CO 90-715 ~220 Hatcol 3110 #2
80F 20LBF 306RPM 2 FILE: co80v1



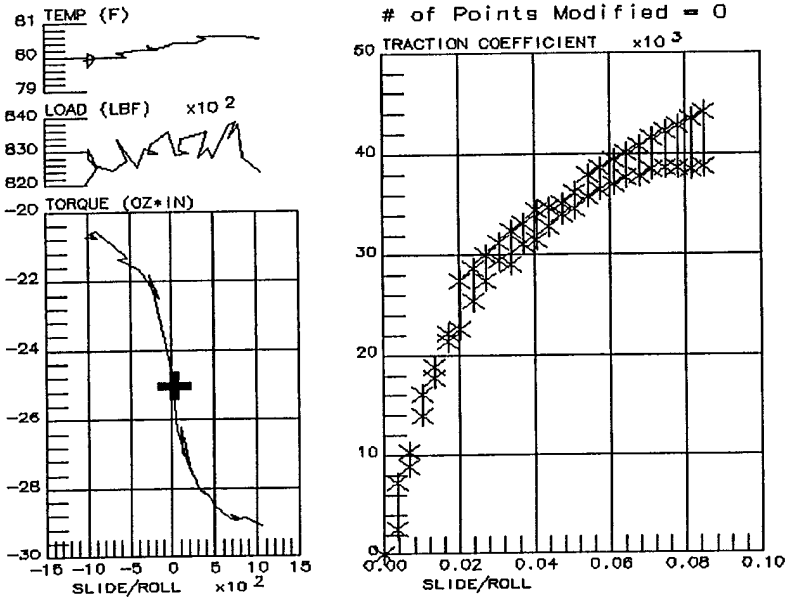
CO 90-715 ~220 Hatcol 3110 #3
80F 38LBF 306RPM 3 FILE: co80v1



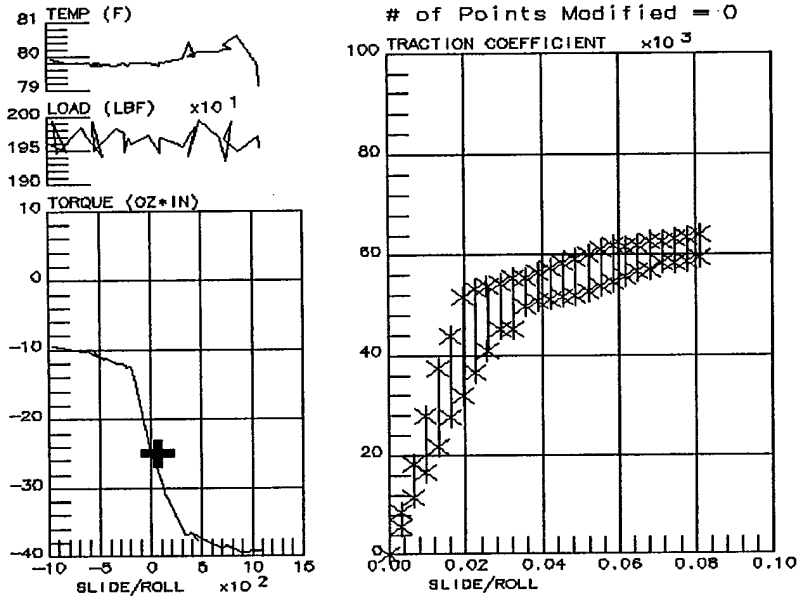
CO 90-715 ~220 Hatcol 3110 #4
80F 66LBF 306RPM 4 FILE: co80v1



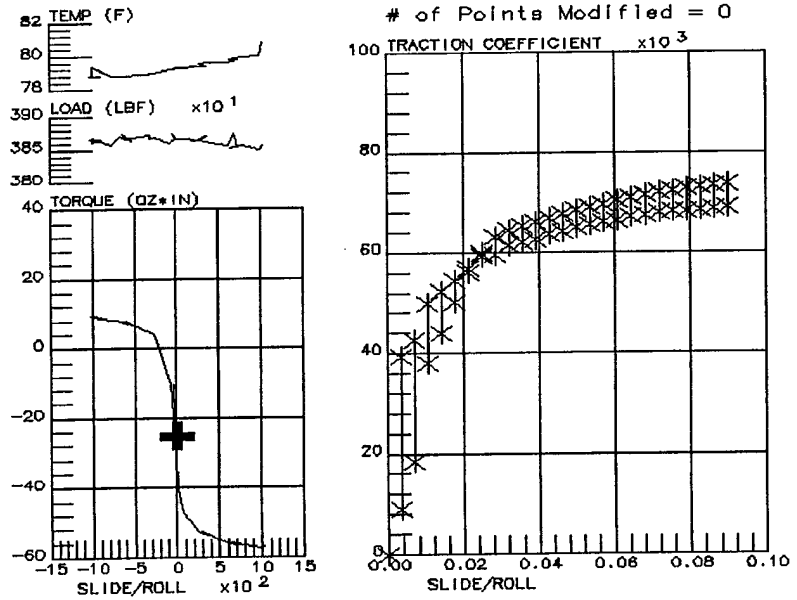
CO 90-715 ~220 Hatcol 3110 #5
80F 8LBF 651RPM 5 FILE: co80v1



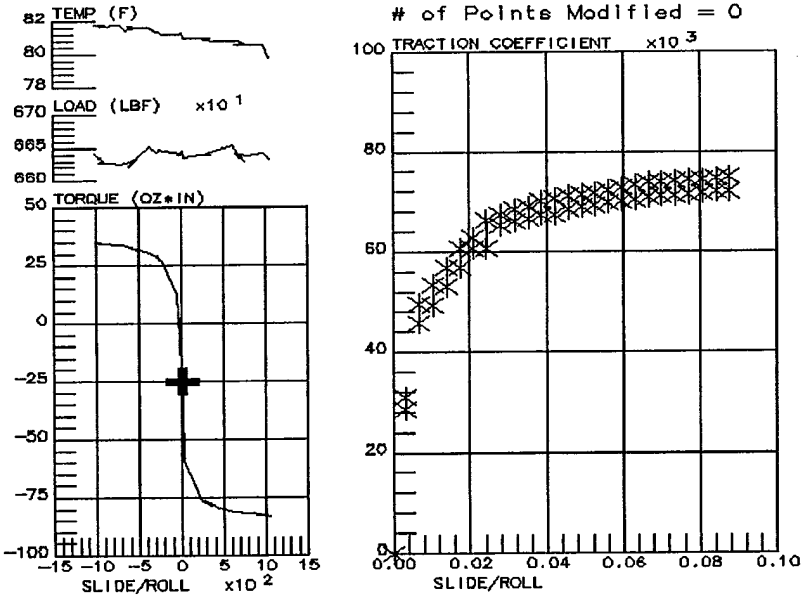
CO 90-715 ~220 Hatcol 3110 #6
80F 20LBF 651RPM 6 FILE: co80v1



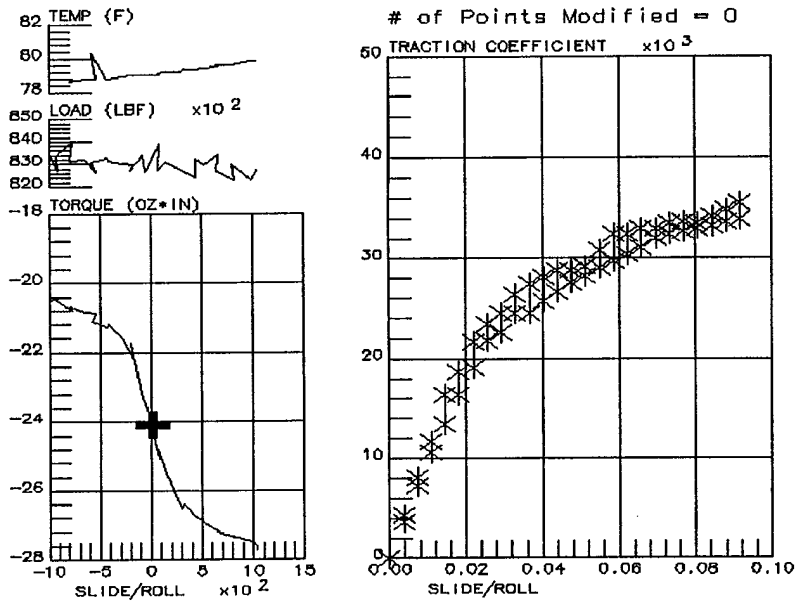
CO 90-715 ~220 Hatcol 3110 #7
80F 38LBF 651RPM 7 FILE: co80v1



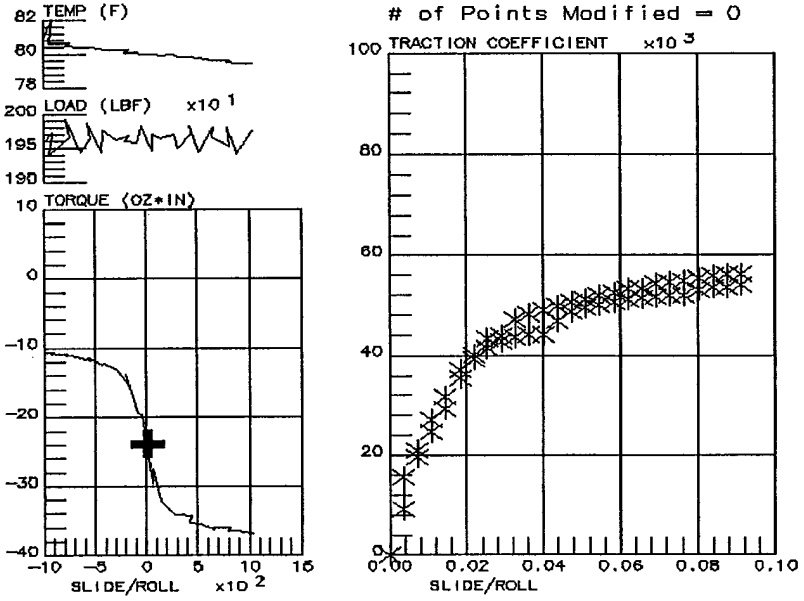
CO 90-715 ~220 Hatcol 3110 #8
80F 66LBF 651RPM 8 FILE: co80v1



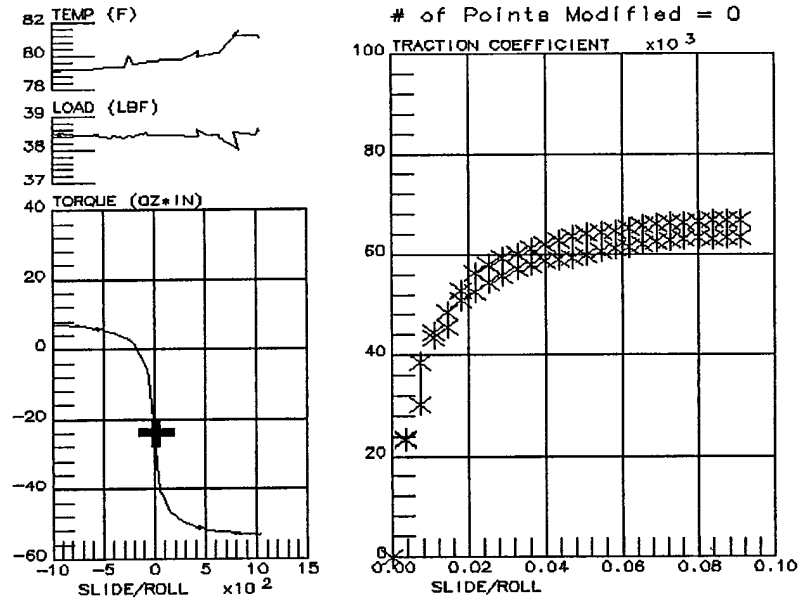
CO 90-715 ~220 Hatcol 3110 #9
80F 8LBF 1264RPM 9 FILE: co80v1



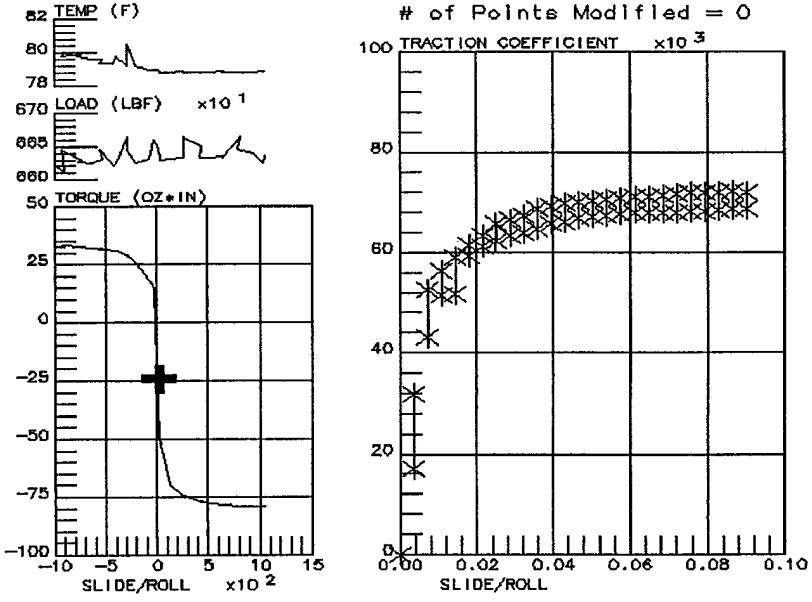
CO 90-715 ~220 Hatcol 3110 #10
80F 20LBF 1264RPM 10 FILE: co80v1

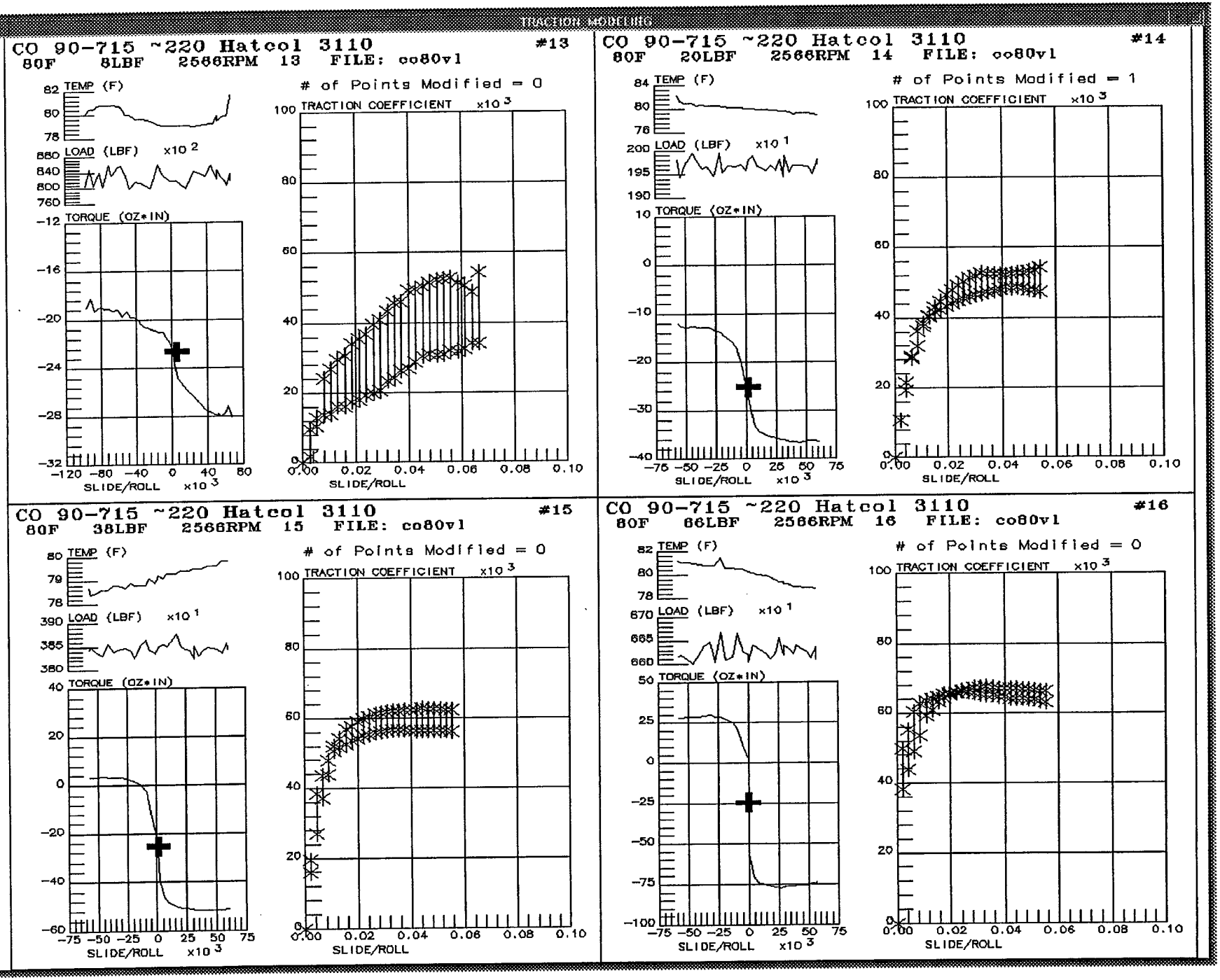


CO 90-715 ~220 Hatcol 3110 #11
80F 38LBF 1264RPM 11 FILE: co80v1



CO 90-715 ~220 Hatcol 3110 #12
80F 66LBF 1264RPM 12 FILE: co80v1




CO 90-715 ~220 Hatcol 3110 #13
80F 8LBF 2566RPM 13 FILE: co80v1
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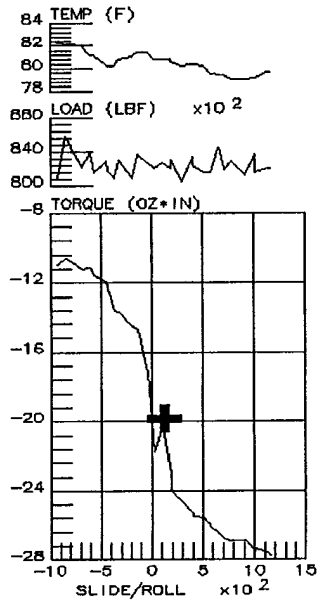
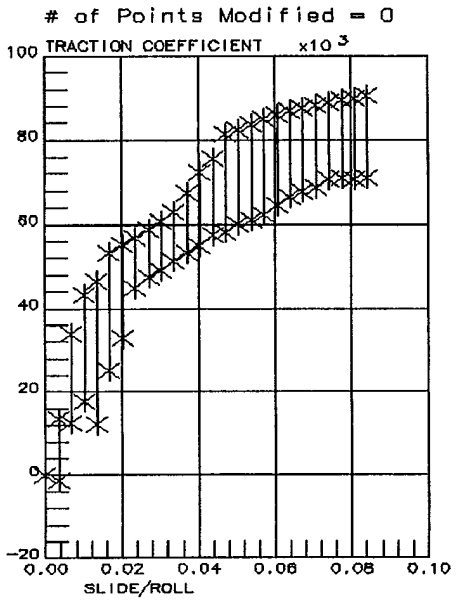
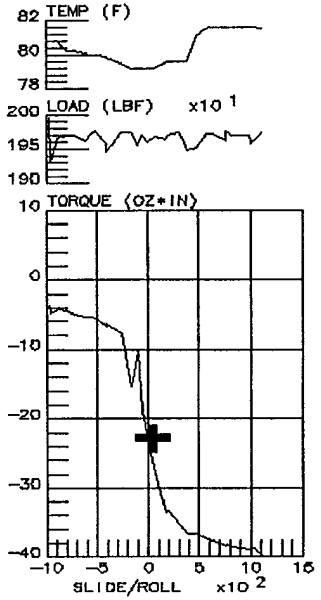
TEMP (F)
LOAD (LBF) x10 2
TORQUE (OZ*IN)
SLIDE/ROLL x10 3
TRACTION COEFFICIENT x10 3
SLIDE/ROLL
CO 90-715 ~220 Hatcol 3110 #14
80F 20LBF 2566RPM 14 FILE: co80v1
# of Points Modified = 1
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 3
TRACTION COEFFICIENT x10 3
SLIDE/ROLL
CO 90-715 ~220 Hatcol 3110 #15
80F 38LBF 2566RPM 15 FILE: co80v1
# of Points Modified = 0
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 3
TRACTION COEFFICIENT x10 3
SLIDE/ROLL
CO 90-715 ~220 Hatcol 3110 #16
80F 66LBF 2566RPM 16 FILE: co80v1
# of Points Modified = 0
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 3
TRACTION COEFFICIENT x10 3
SLIDE/ROLL

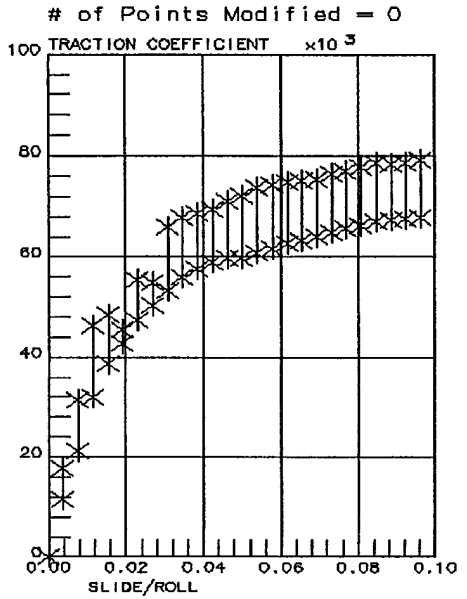
CO 90-715 ~220 Hatcol 3110 #17
80F 8LBF 306RPM 1 FILE: co80med



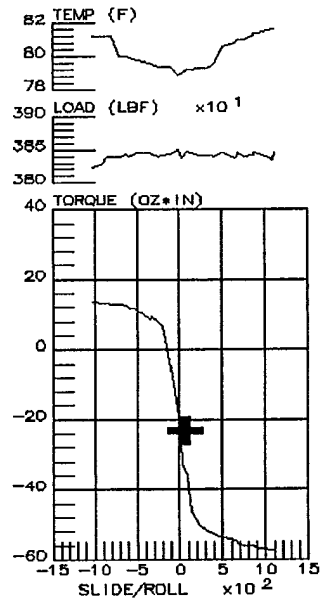


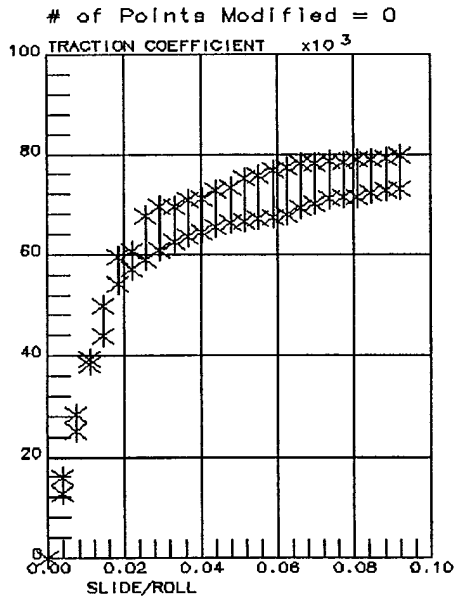
CO 90-715 ~220 Hatcol 3110 #18
80F 20LBF 306RPM 2 FILE: co80med



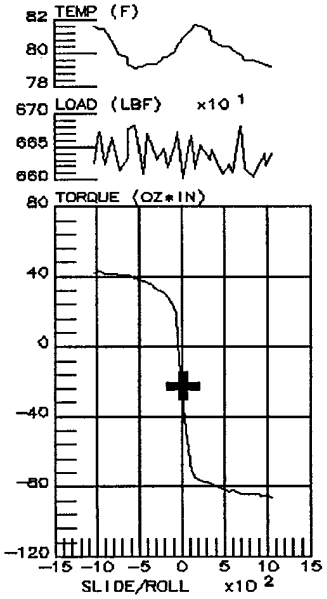


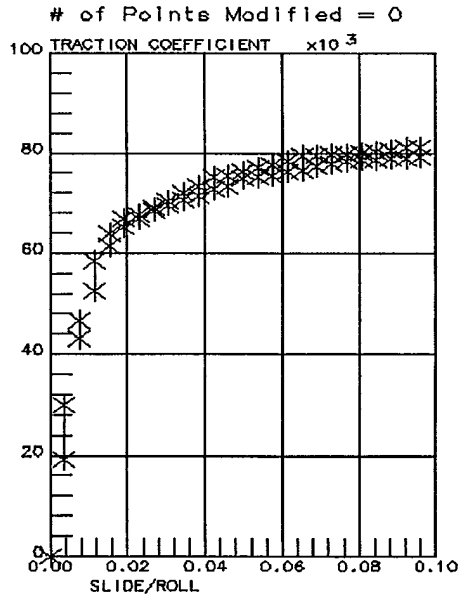
CO 90-715 ~220 Hatcol 3110 #19
80F 38LBF 306RPM 3 FILE: co80med



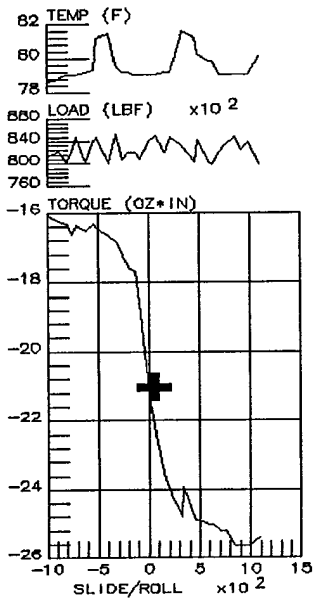


CO 90-715 ~220 Hatcol 3110 #20
80F 66LBF 306RPM 4 FILE: co80med





CO 90-715 ~220 Hatcol 3110 #21
80F 8LBF 651RPM 5 FILE: co80med



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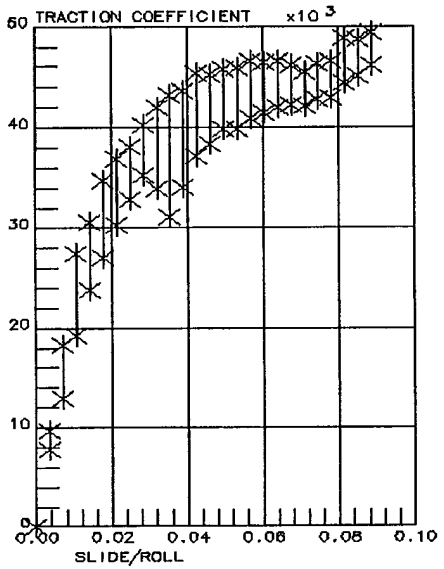
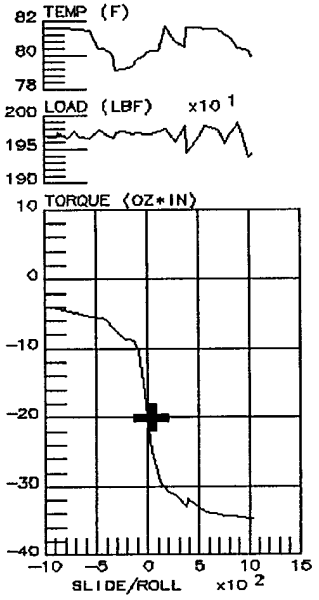
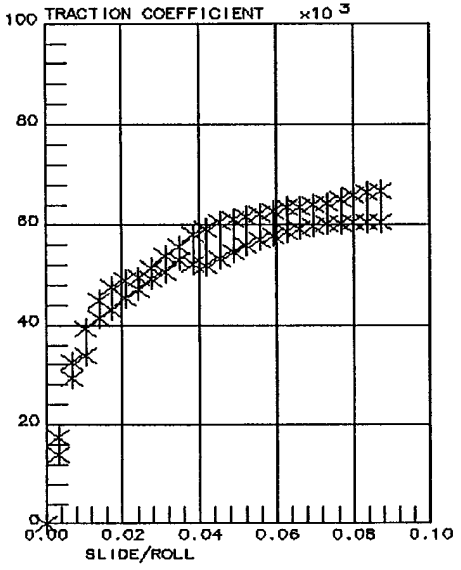


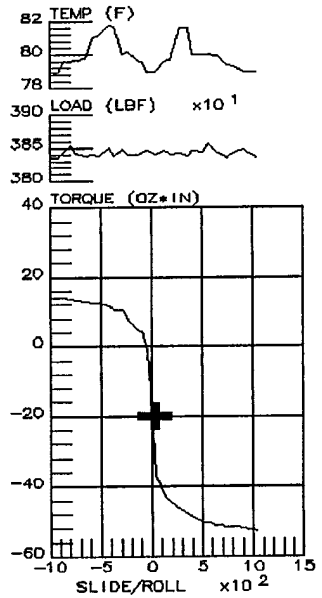
CO 90-715 ~220 Hatcol 3110 #22
80F 20LBF 651RPM 6 FILE: co80med



# of Points Modified = 0



CO 90-715 ~220 Hatcol 3110 #23
80F 38LBF 651RPM 7 FILE: co80med



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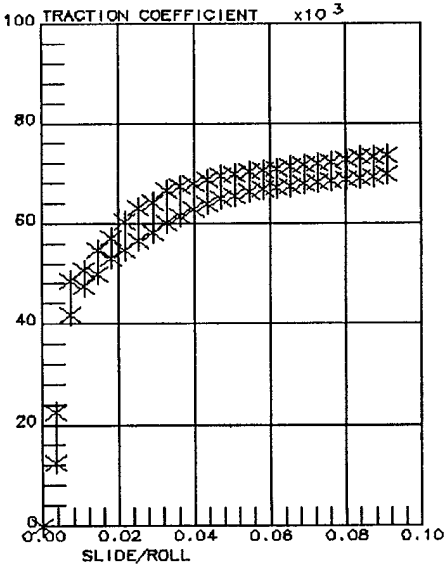
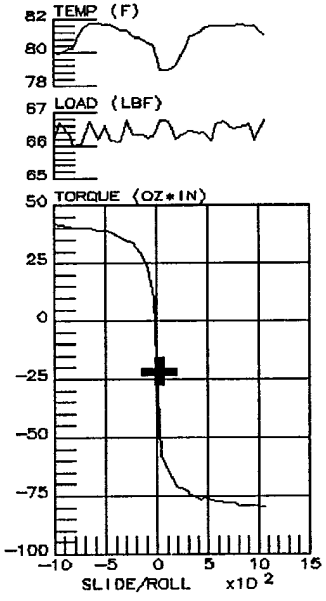


CO 90-715 ~220 Hatcol 3110 #24
80F 66LBF 651RPM 8 FILE: co80med



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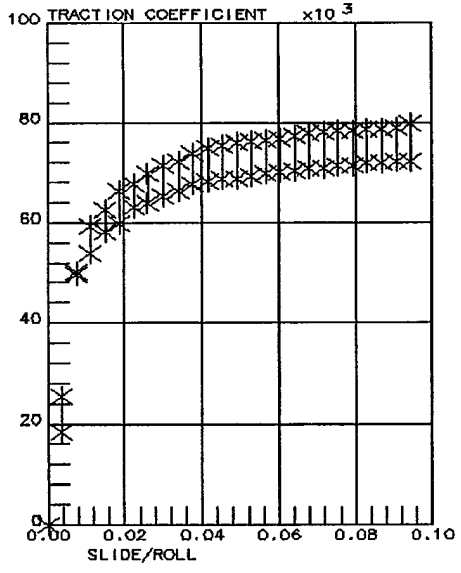
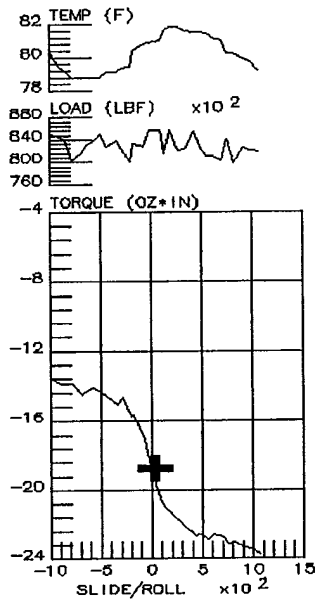
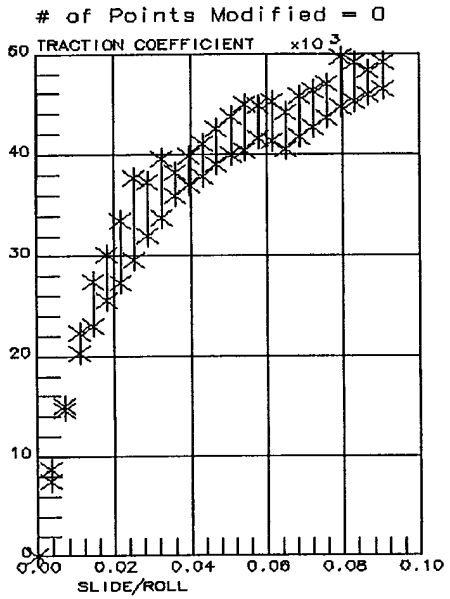
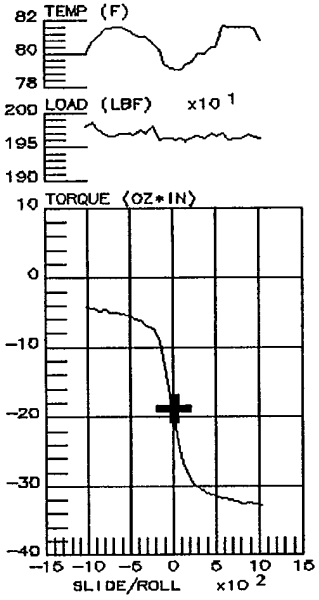


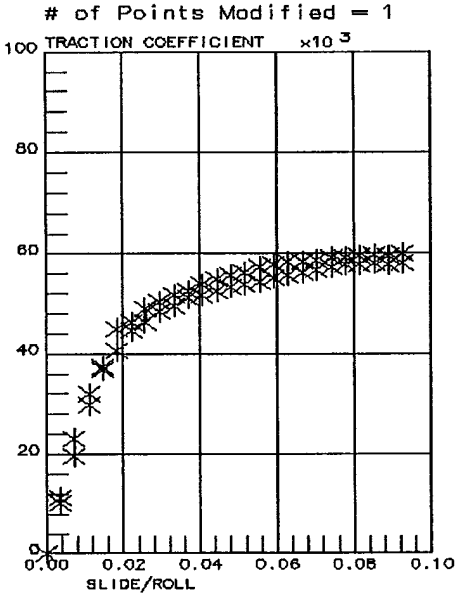
CO 90-715 ~220 Hatcol 3110 #25
80F 8LBF 1264RPM 9 FILE: co80med



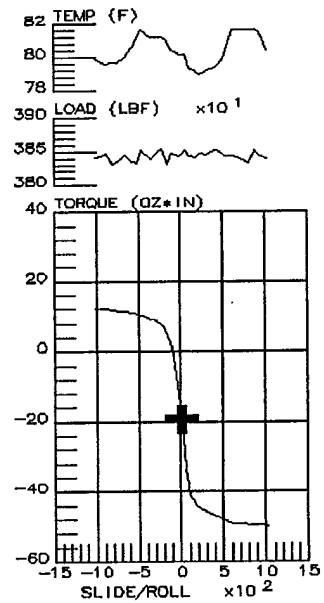


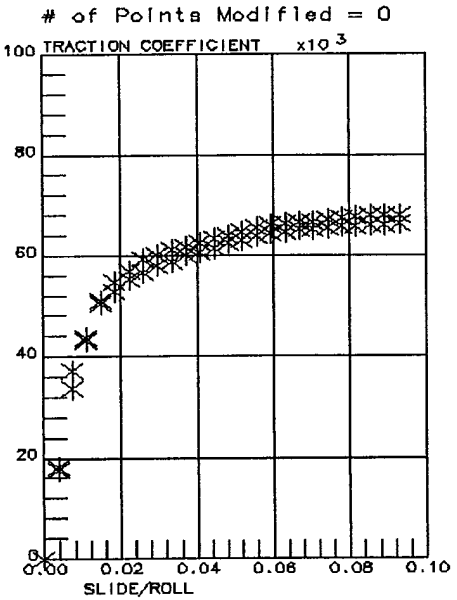
CO 90-715 ~220 Hatcol 3110 #26
80F 20LBF 1264RPM 10 FILE: co80med



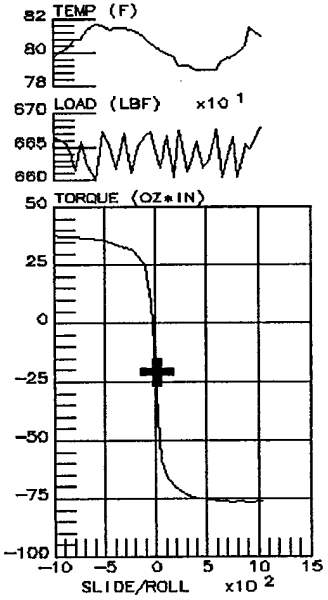


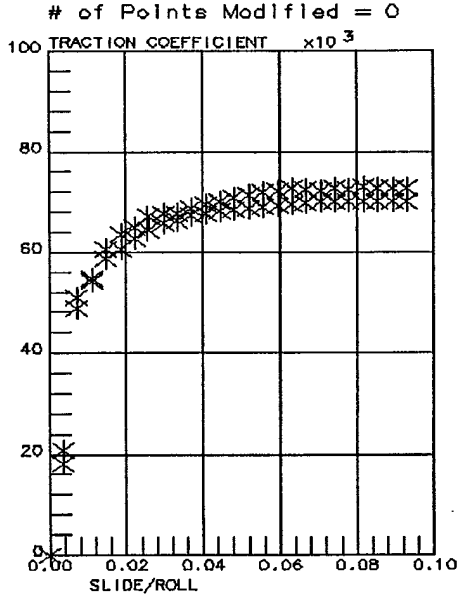
CO 90-715 ~220 Hatcol 3110 #27
80F 38LBF 1264RPM 11 FILE: co80med



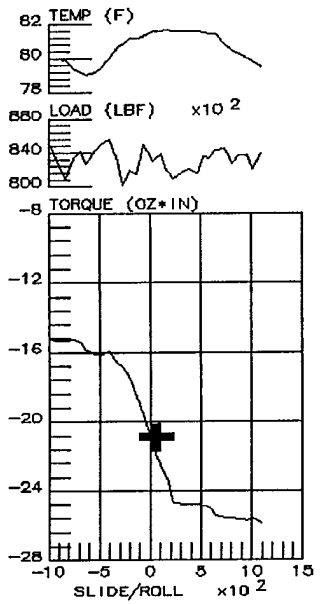


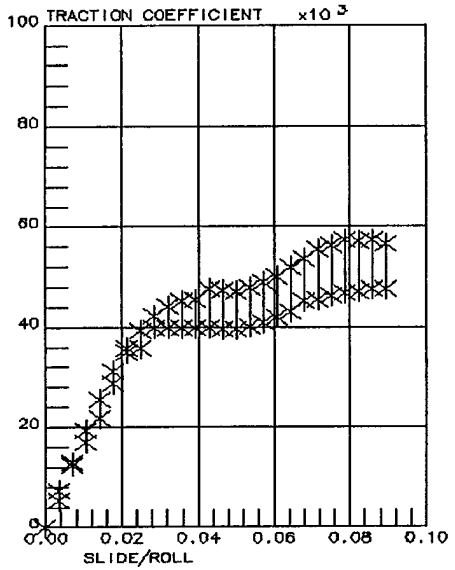
CO 90-715 ~220 Hatcol 3110 #28
80F 66LBF 1264RPM 12 FILE: co80med



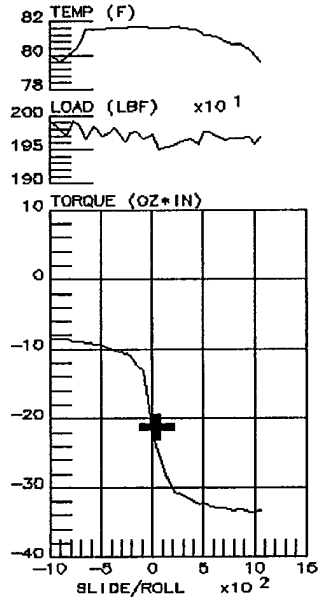


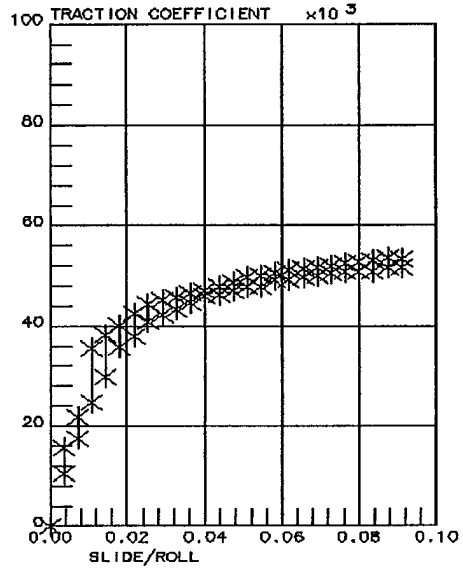
CO 90-715 ~220 Hatcol 3110 #29
80F 8LBF 2566RPM 13 FILE: co80med



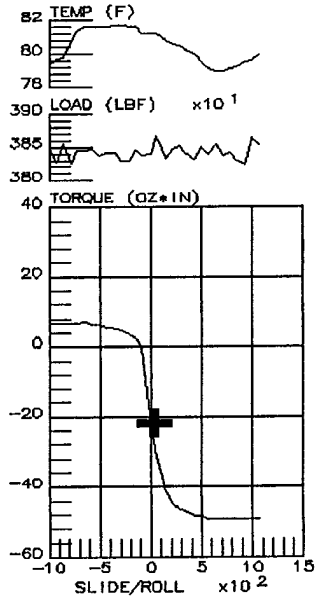


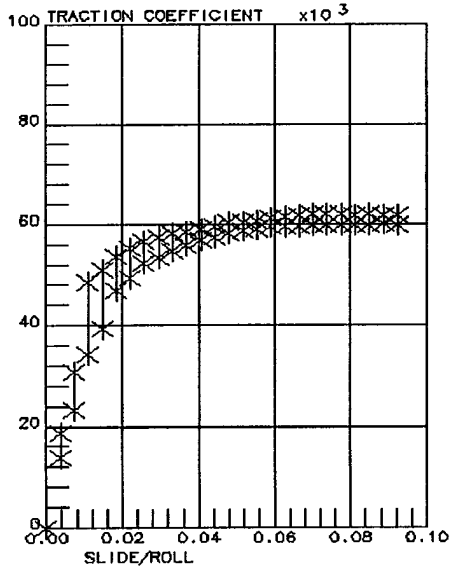
CO 90-715 ~220 Hatcol 3110 #30
80F 20LBF 2566RPM 14 FILE: co80med



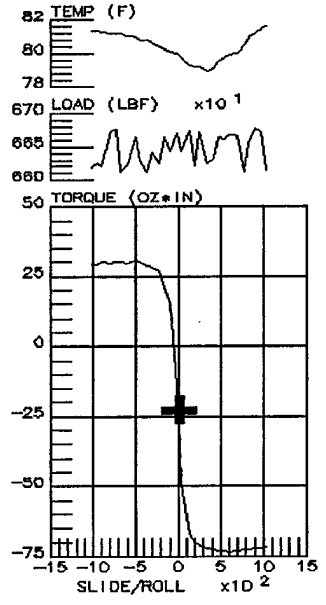


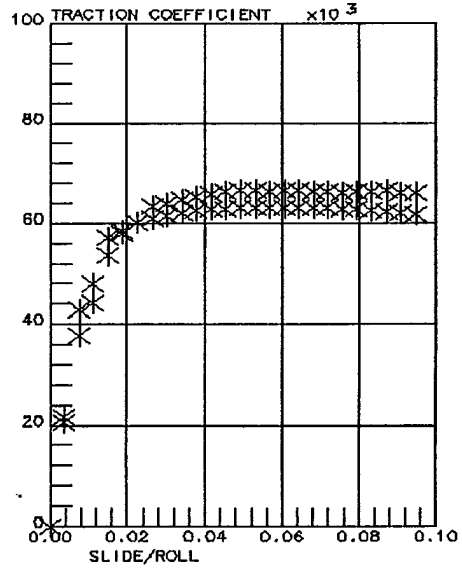
CO 90-715 ~220 Hatcol 3110 #31
80F 38LBF 2566RPM 15 FILE: co80med



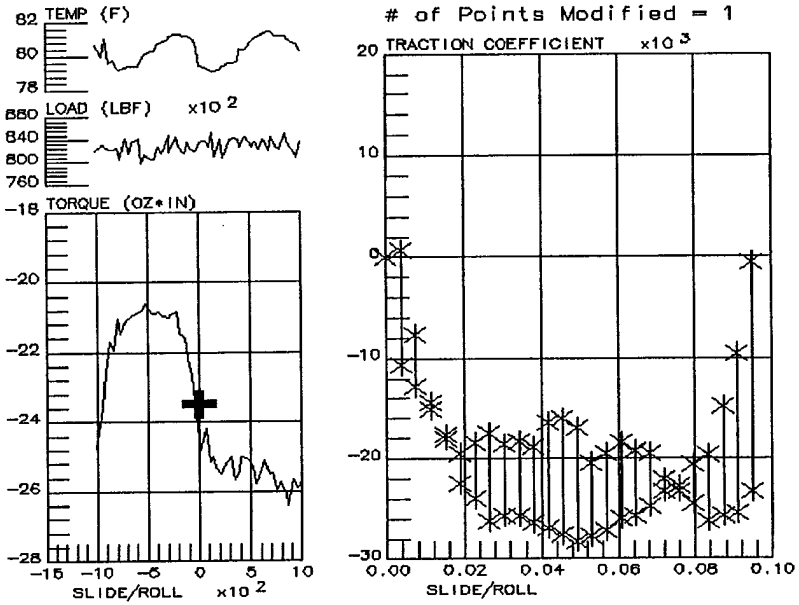


CO 90-715 ~220 Hatcol 3110 #32
80F 66LBF 2566RPM 16 FILE: co80med

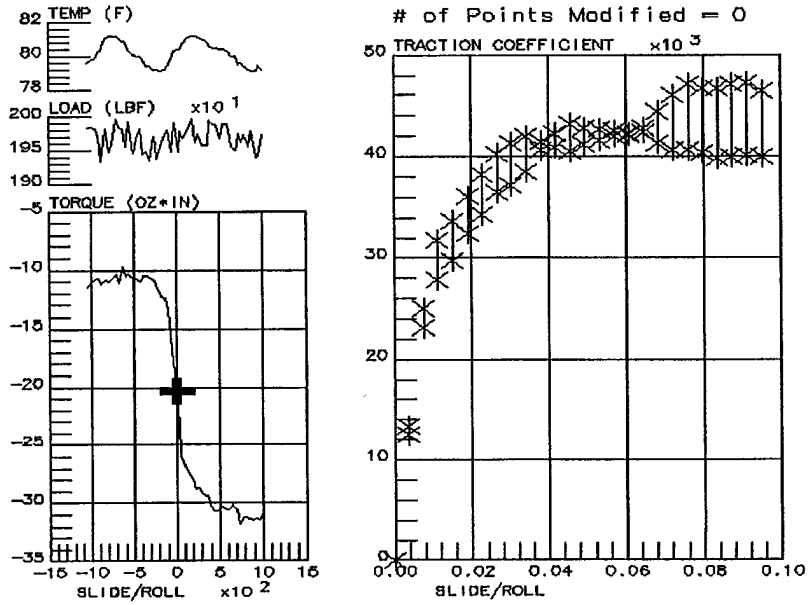




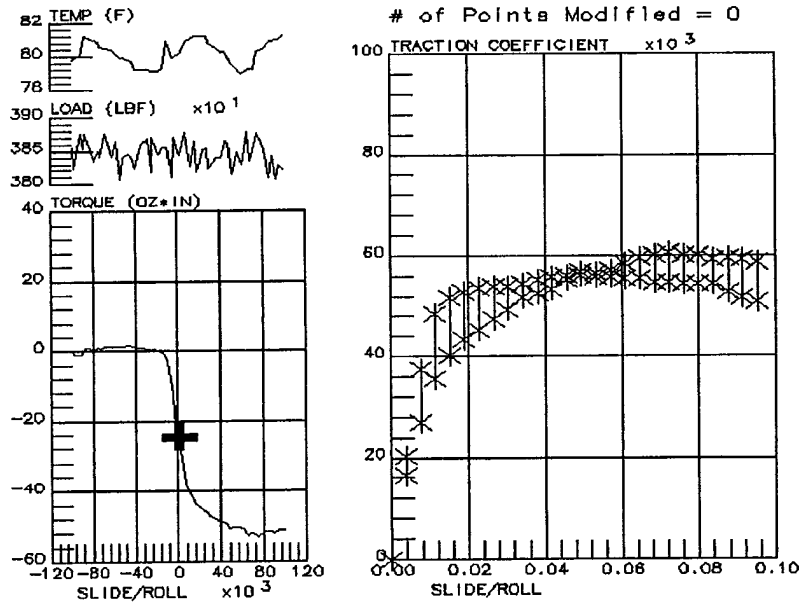
CO 90-715 ~220 Hatcol 3110 #33
80F 8LBF 5097RPM 1 FILE: co80vh



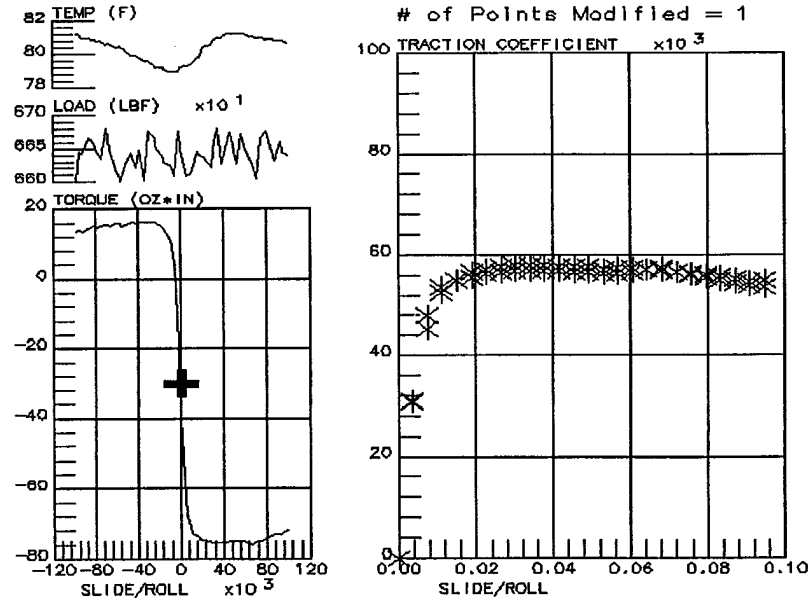
CO 90-715 ~220 Hatcol 3110 #34
80F 20LBF 5097RPM 2 FILE: co80vh



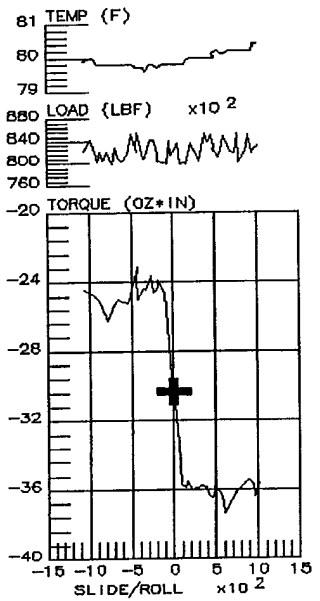
CO 90-715 ~220 Hatcol 3110 #35
80F 38LBF 5097RPM 3 FILE: co80vh



CO 90-715 ~220 Hatcol 3110 #36
80F 66LBF 5097RPM 4 FILE: co80vh



CO 90-715 ~220 Hatcol 3110 #37
80F 8LBF 7665RPM 5 FILE: co80vh



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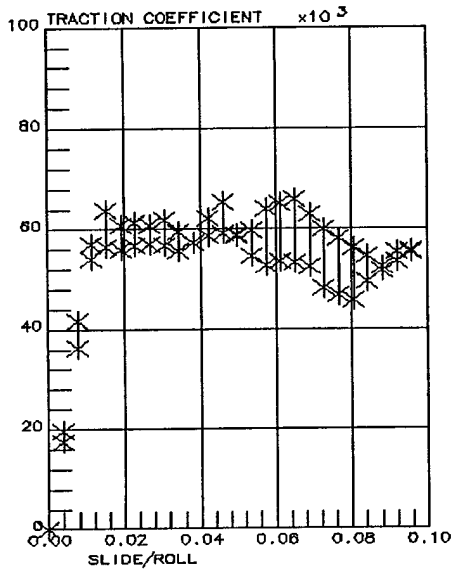
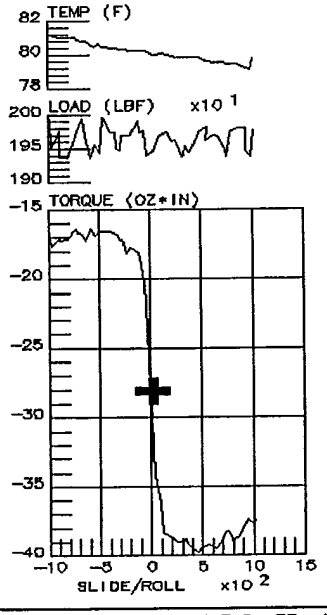


CO 90-715 ~220 Hatcol 3110 #38
80F 20LBF 7665RPM 6 FILE: co80vh



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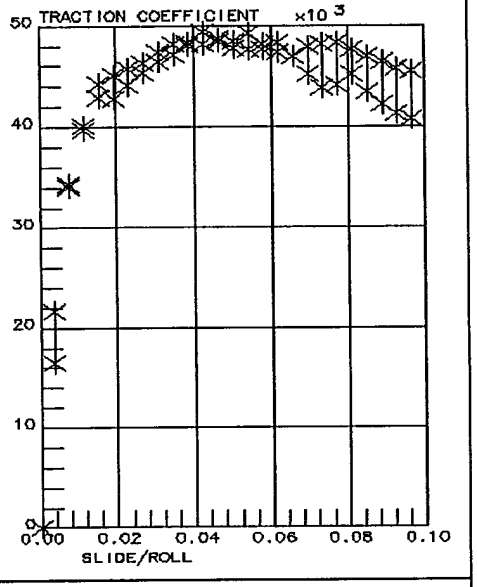
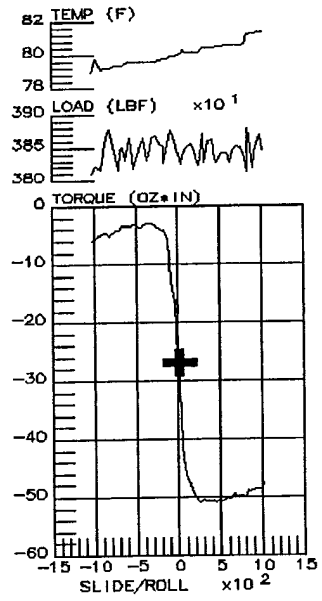


CO 90-715 ~220 Hatcol 3110 #39
80F 38LBF 7665RPM 7 FILE: co80vh



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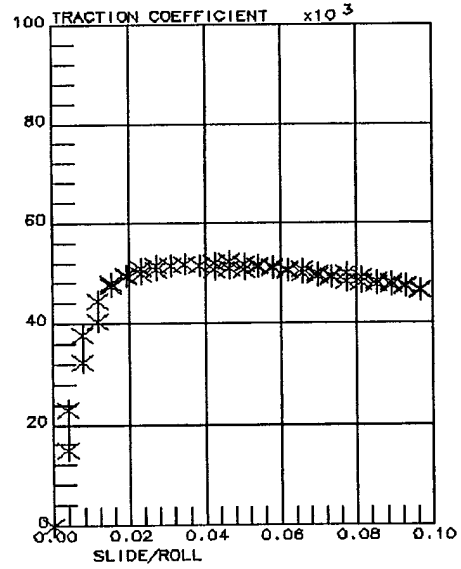
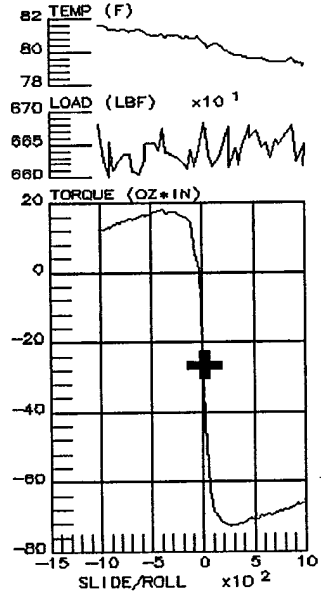


CO 90-715 ~220 Hatcol 3110 #40
80F 66LBF 7665RPM 8 FILE: co80vh



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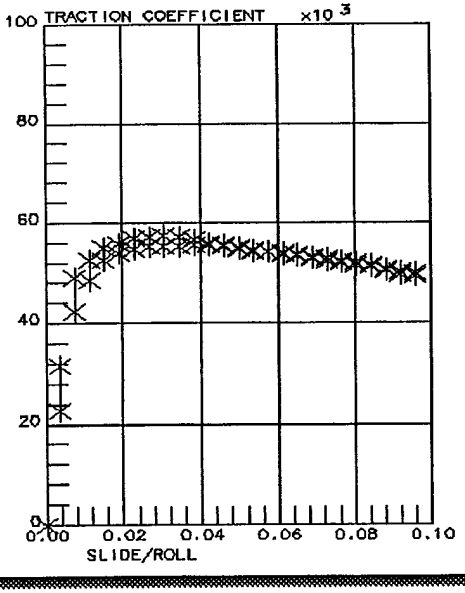
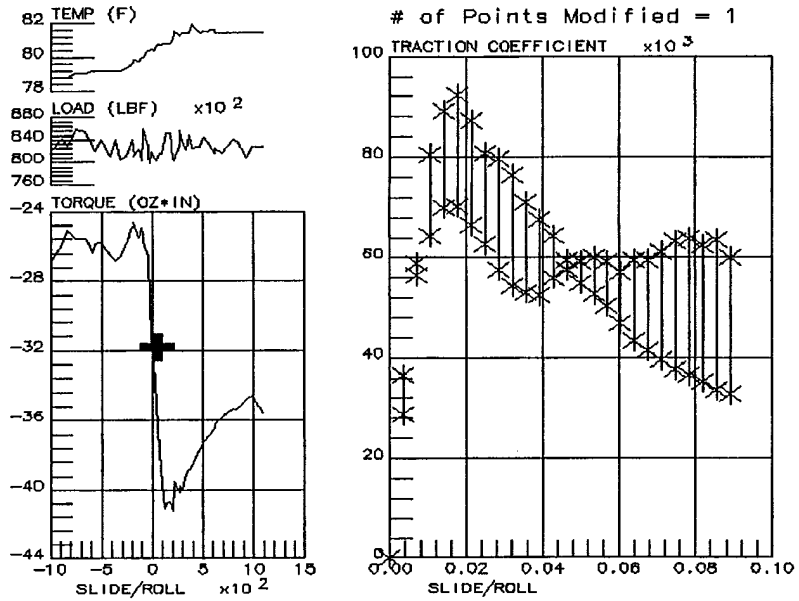
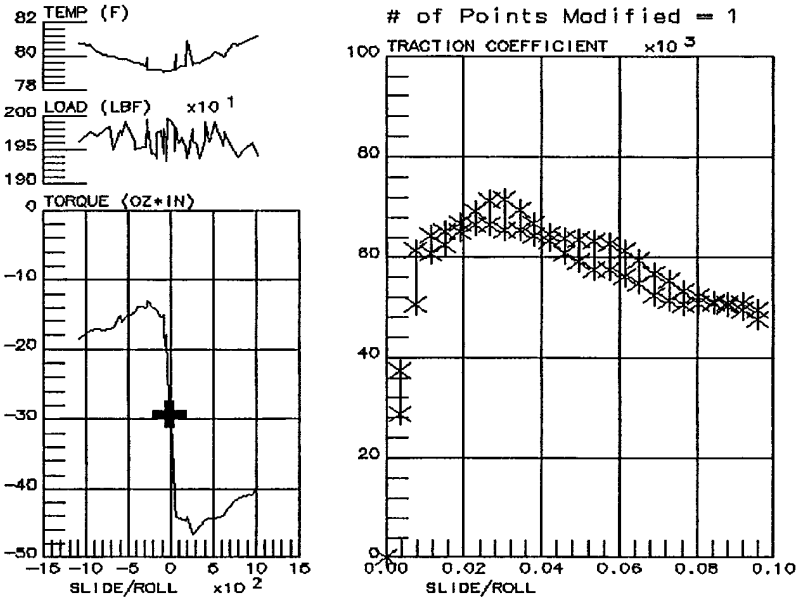


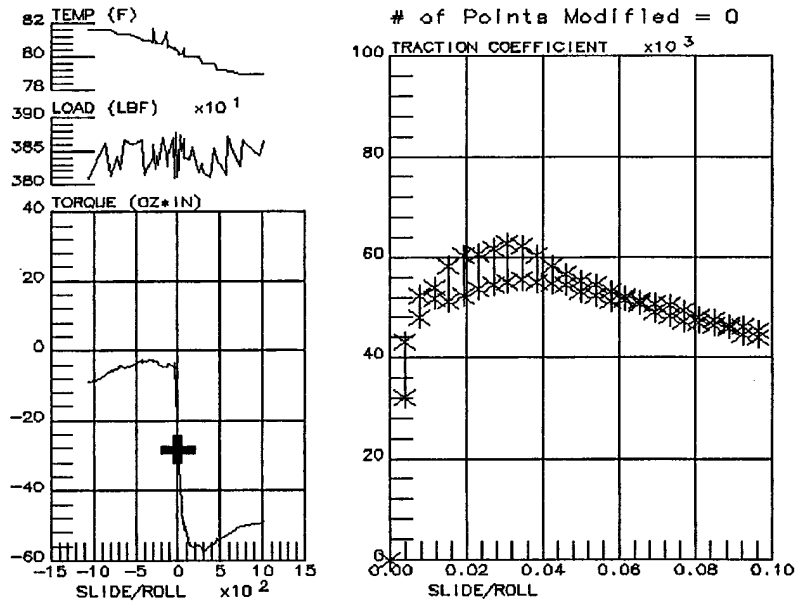
CO 90-715 ~220 Hatcol 3110 #41
80F 8LBF 10225RPM 9 FILE: co80vh



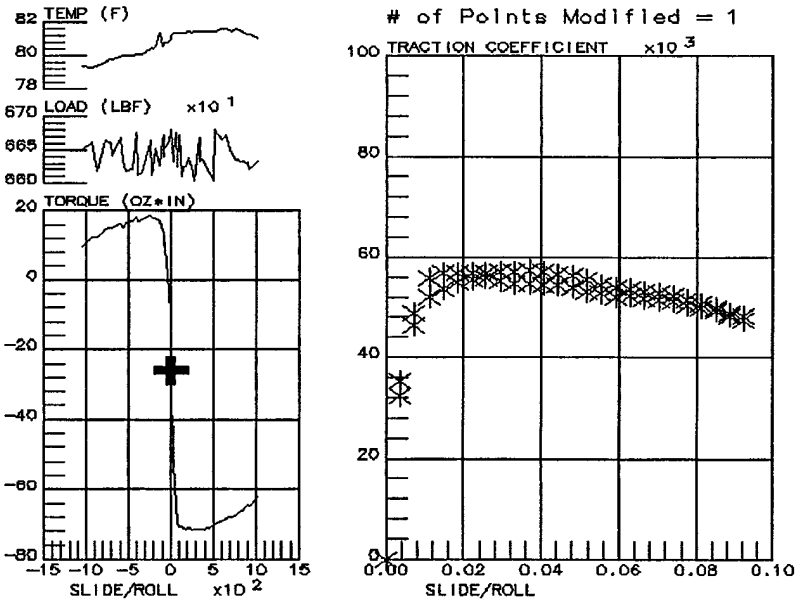
CO 90-715 ~220 Hatcol 3110 #42
80F 20LBF 10225RPM 10 FILE: co80vh



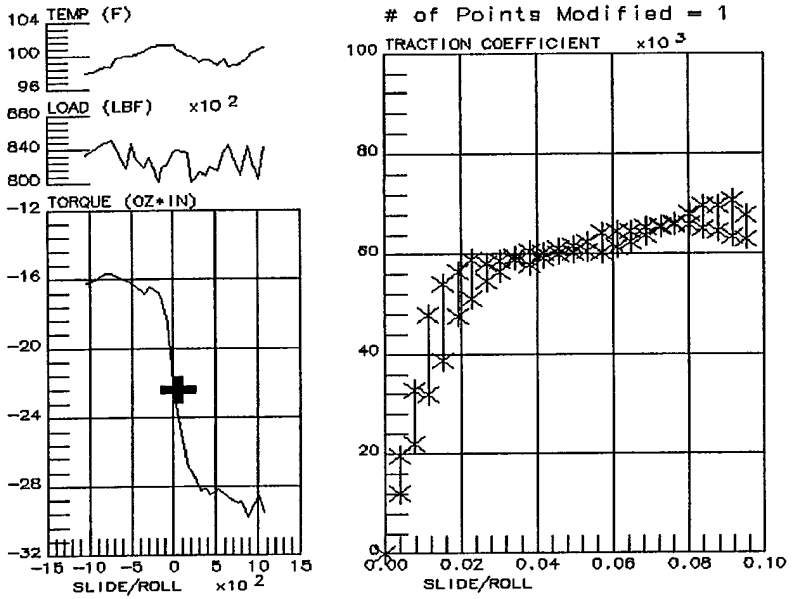
CO 90-715 ~220 Hatcol 3110 #43
80F 38LBF 10225RPM 11 FILE: co80vh



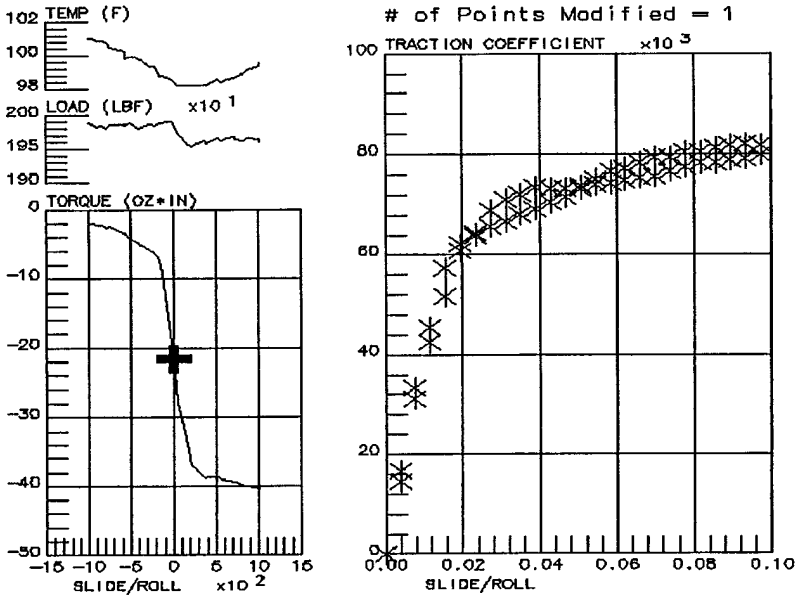
CO 90-715 ~220 Hatcol 3110 #44
80F 66LBF 10225RPM 12 FILE: co80vh



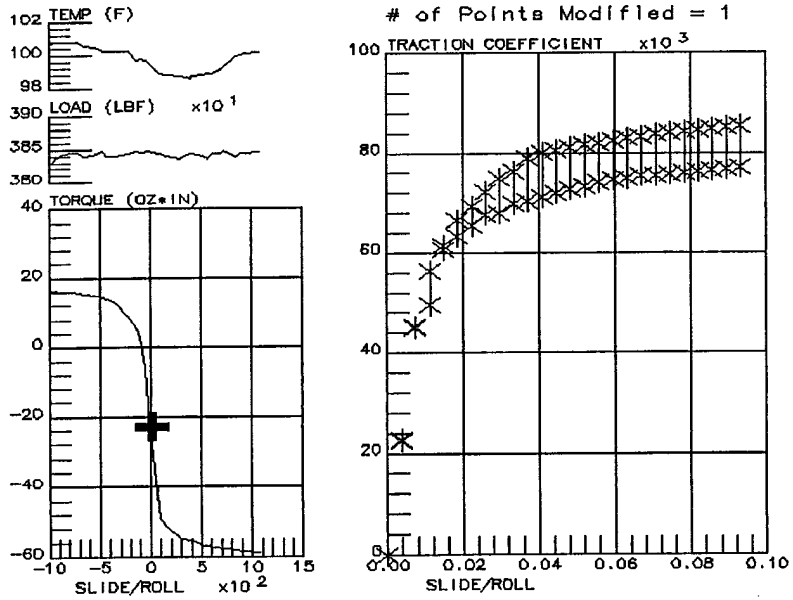
CO 90-715 ~220 Hatcol 3110 #45
100F 8LBF 306RPM 1 FILE: co100v1



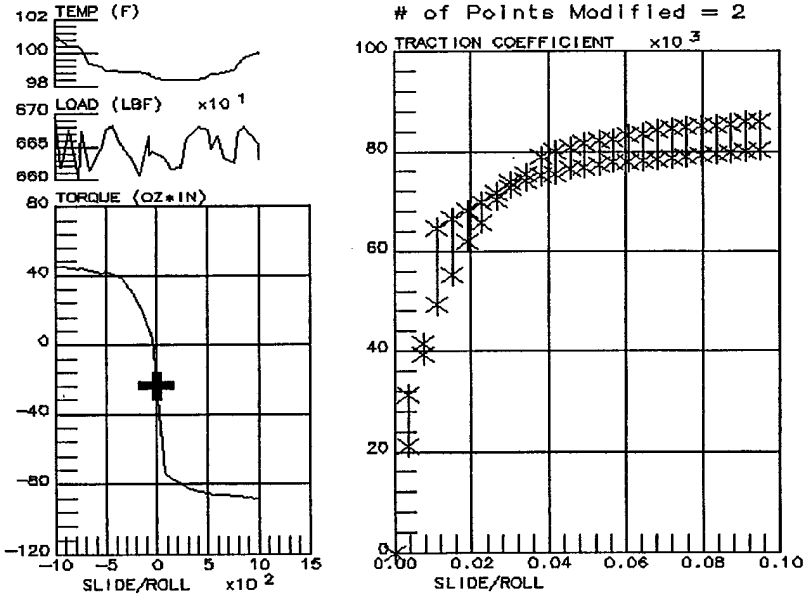
CO 90-715 ~220 Hatcol 3110 #46
100F 20LBF 306RPM 2 FILE: co100v1



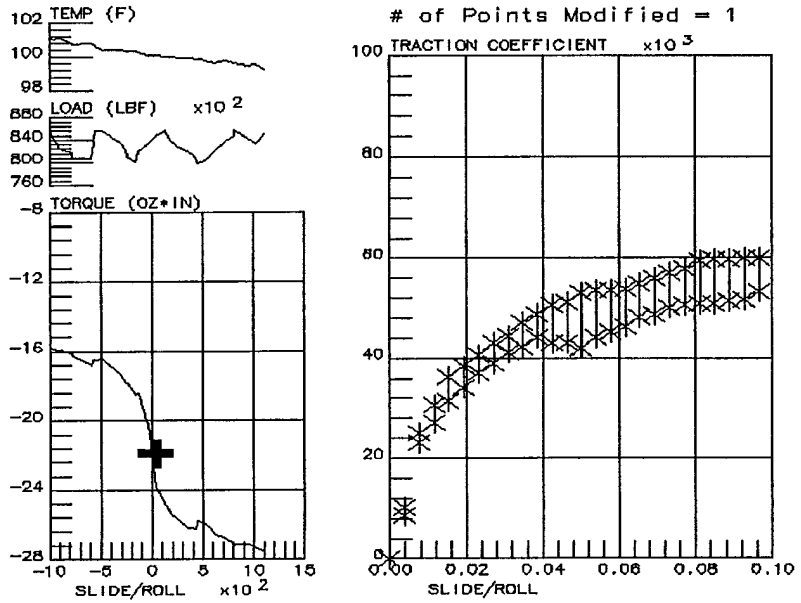
CO 90-715 ~220 Hatcol 3110 #47
100F 38LBF 306RPM 3 FILE: co100v1



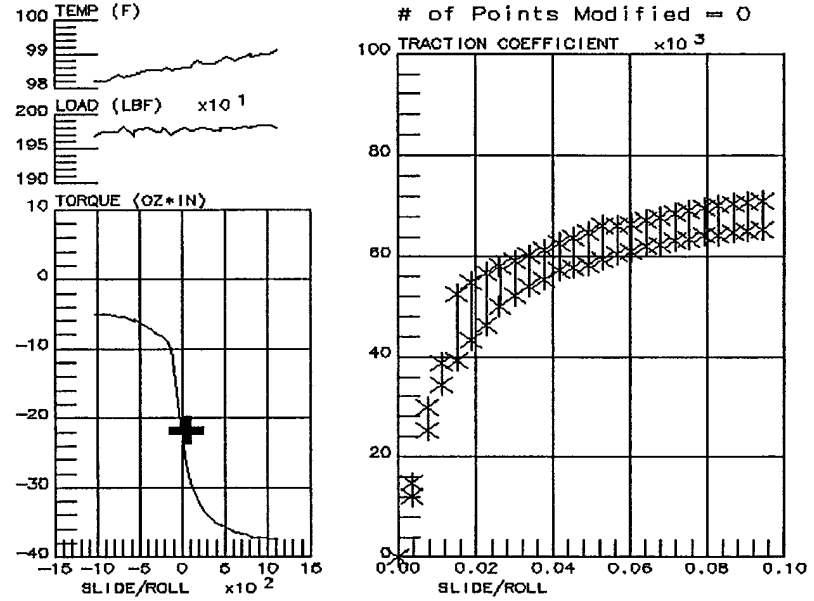
CO 90-715 ~220 Hatcol 3110 #48
100F 66LBF 306RPM 4 FILE: co100v1



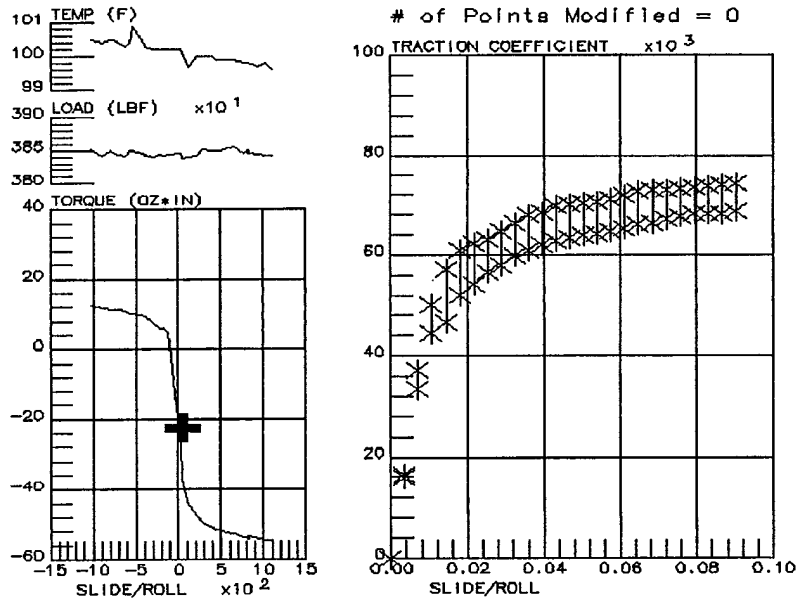
CO 90-715 ~220 Hatcol 3110 #49
100F 8LBF 651RPM 5 FILE: co100v1



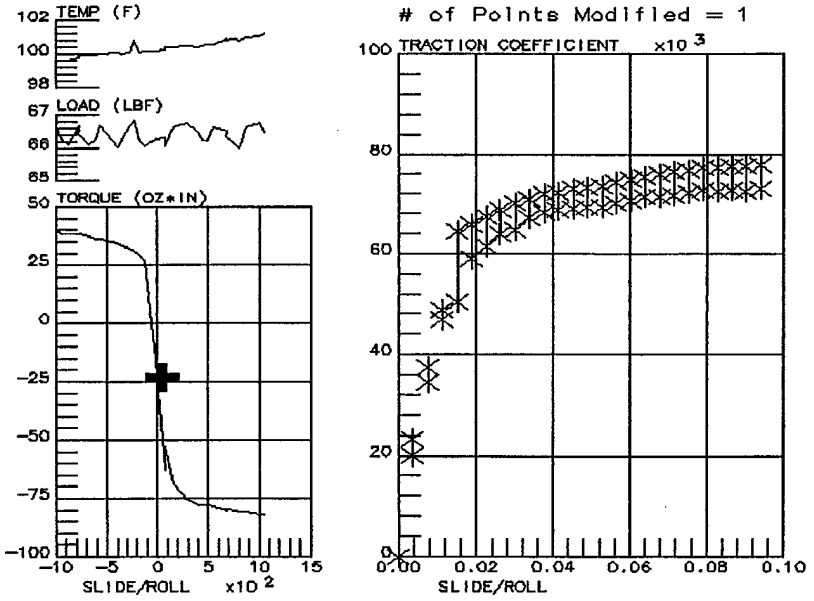
CO 90-715 ~220 Hatcol 3110 #50
100F 20LBF 651RPM 6 FILE: co100v1



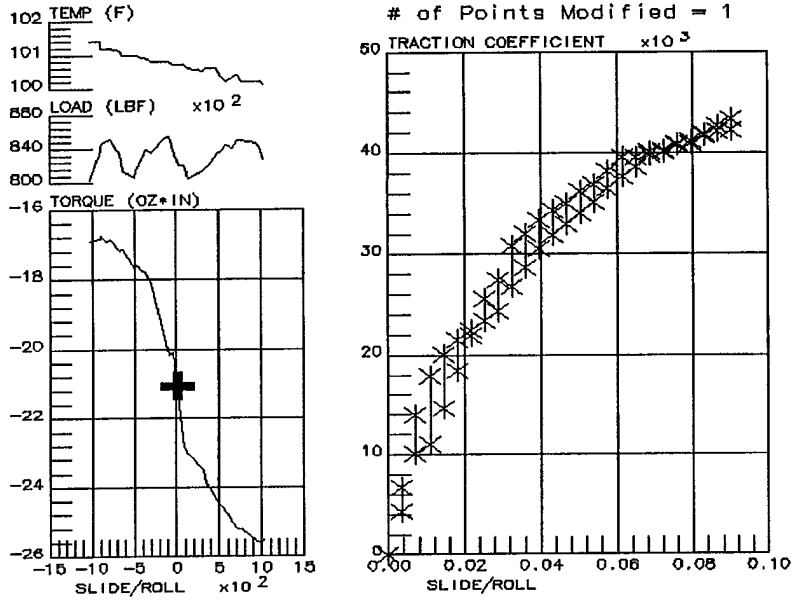
CO 90-715 ~220 Hatcol 3110 #51
100F 38LBF 651RPM 7 FILE: co100v1



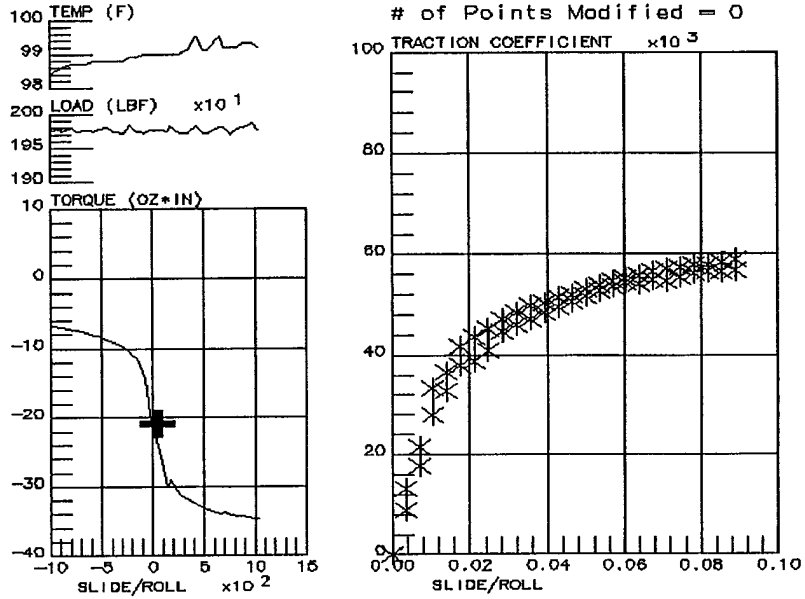
CO 90-715 ~220 Hatcol 3110 #52
100F 66LBF 651RPM 8 FILE: co100v1



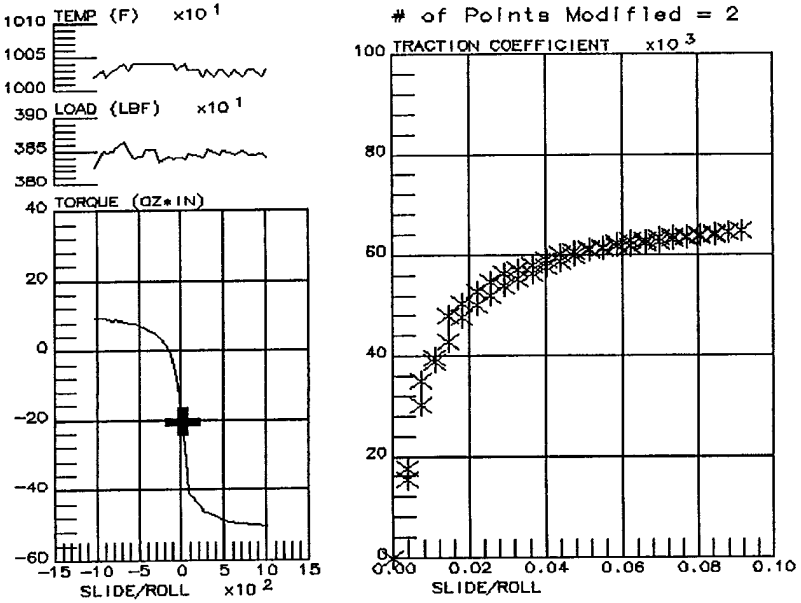
CO 90-715 ~220 Hatcol 3110 #53
100F 8LBF 1264RPM 9 FILE: co100v1



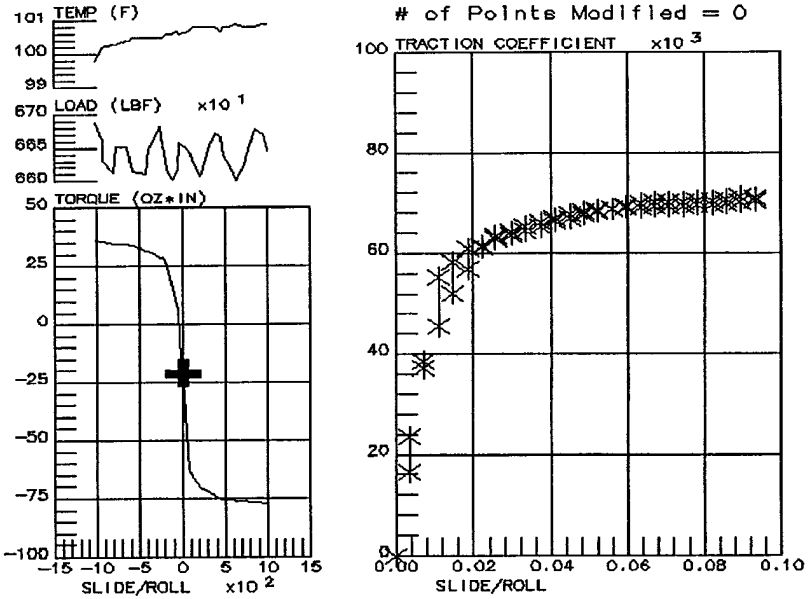
CO 90-715 ~220 Hatcol 3110 #54
100F 20LBF 1264RPM 10 FILE: co100v1



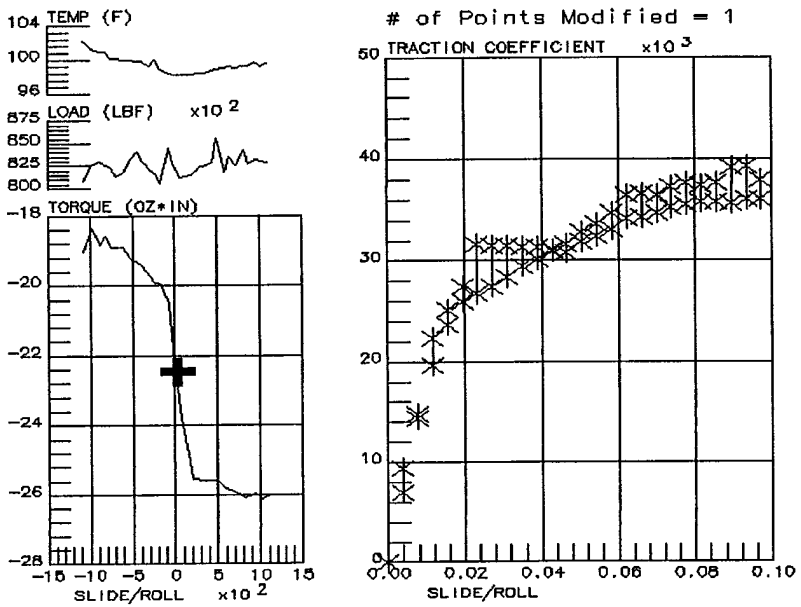
CO 90-715 ~220 Hatcol 3110 #55
100F 38LBF 1264RPM 11 FILE: co100v1



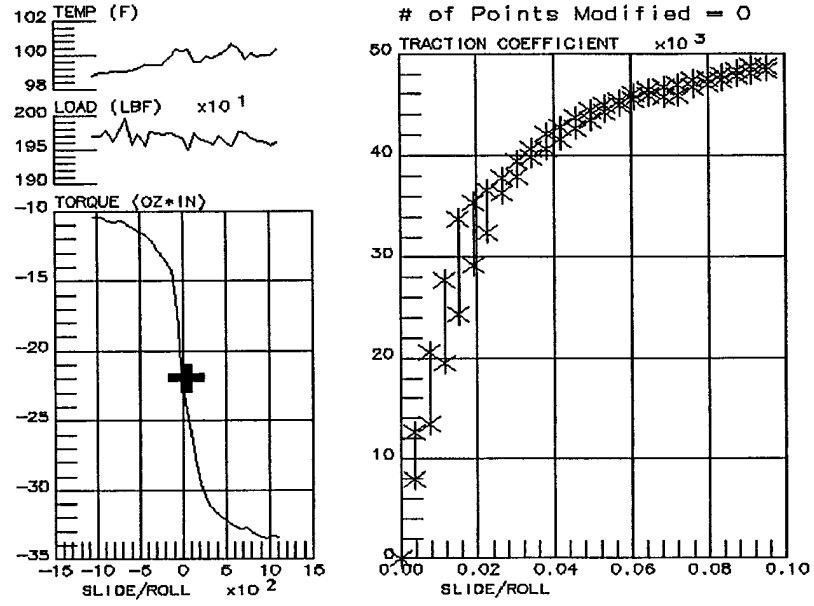
CO 90-715 ~220 Hatcol 3110 #56
100F 66LBF 1264RPM 12 FILE: co100v1



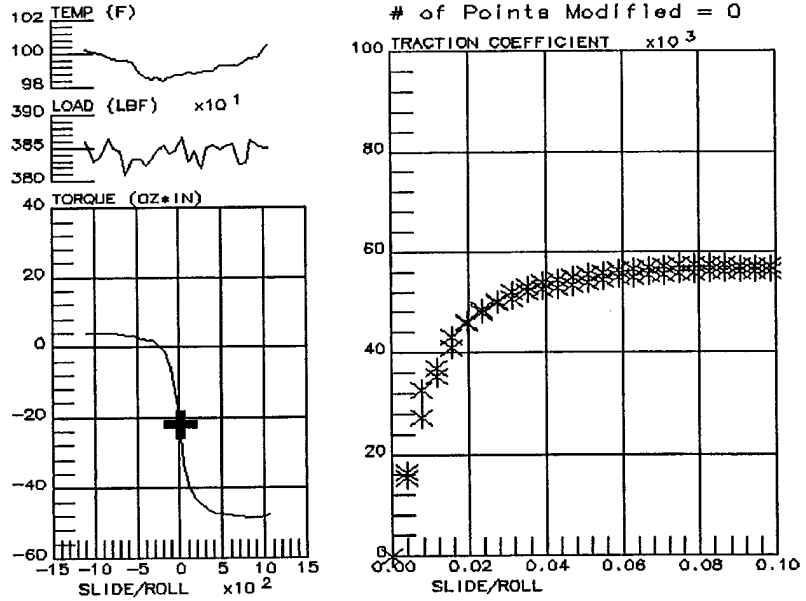
CO 90-715 ~220 Hatcol 3110 #57
100F 8LBF 306RPM 1 FILE: co100v1x



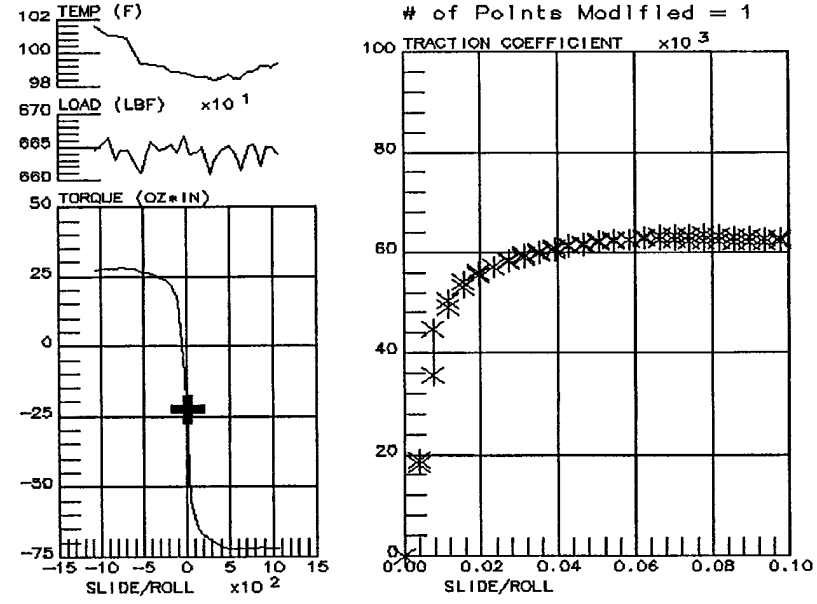
CO 90-715 ~220 Hatcol 3110 #58
100F 20LBF 2535RPM 14 FILE: co100v1x



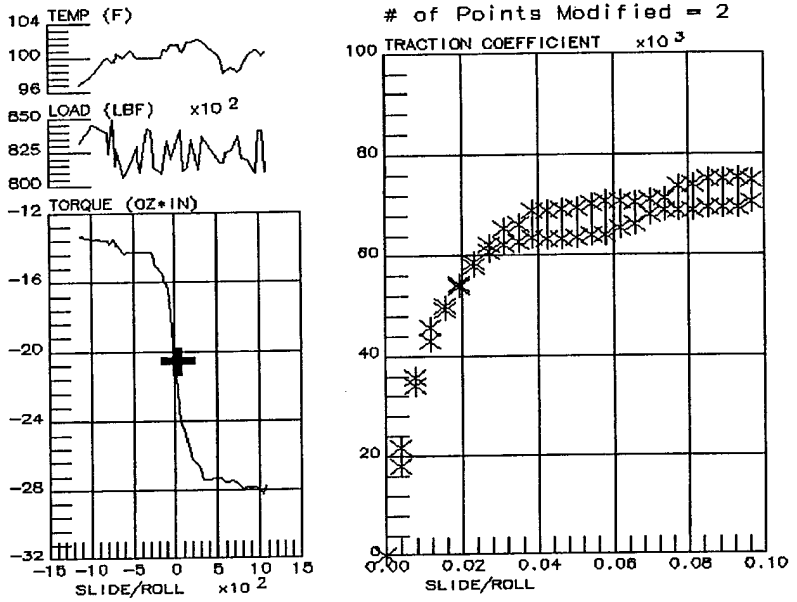
CO 90-715 ~220 Hatcol 3110 #59
100F 38LBF 2535RPM 15 FILE: co100v1x



CO 90-715 ~220 Hatcol 3110 #60
100F 66LBF 2535RPM 16 FILE: co100v1x



CO 90-715 ~220 Hatcol 3110 #61
100F 8LBF 306RPM 1 FILE: co100med



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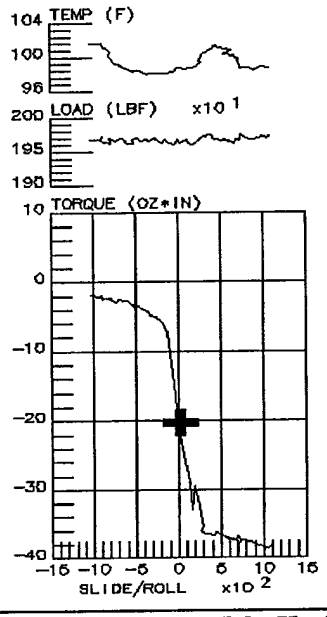
CO 90-715 ~220 Hatcol 3110 #62
100F 20LBF 306RPM 2 FILE: co100med



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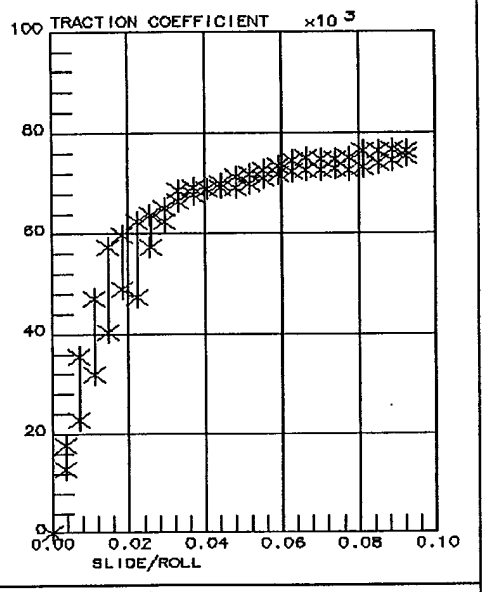
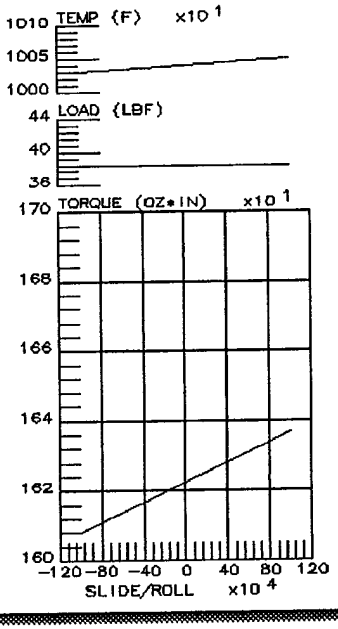


CO 90-715 ~220 Hatcol 3110 #63
100F 38LBF 306RPM 3 FILE: co100med



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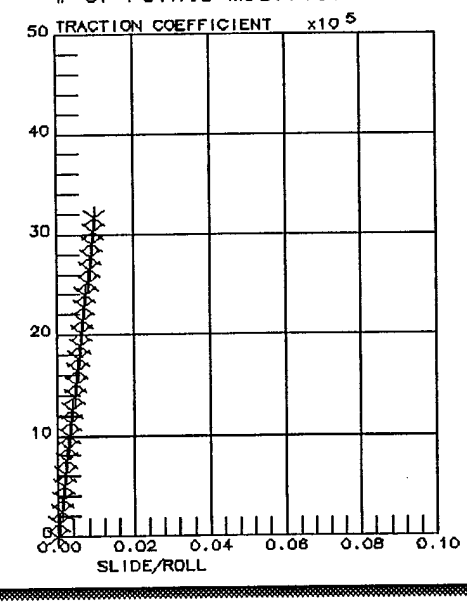
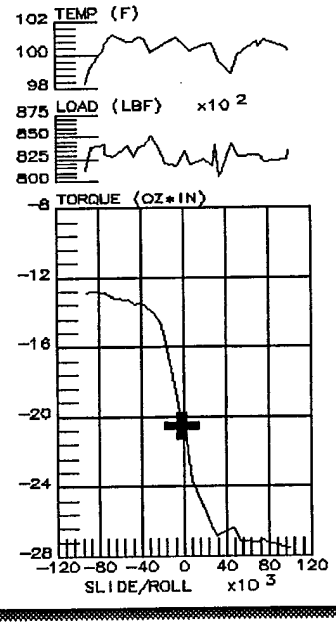


CO 90-715 ~220 Hatcol 3110 #64
100F 8LBF 306RPM 1 FILE: co100mex



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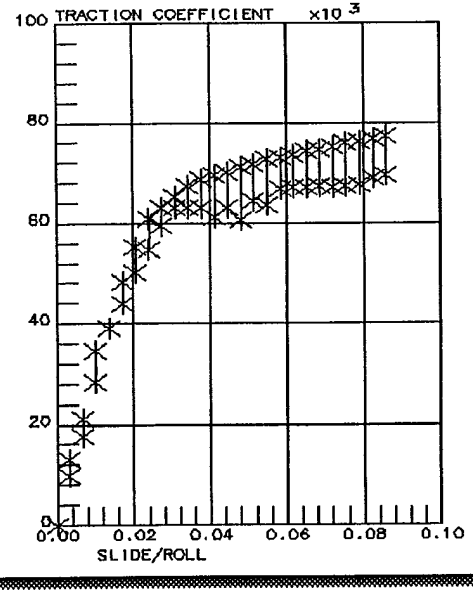
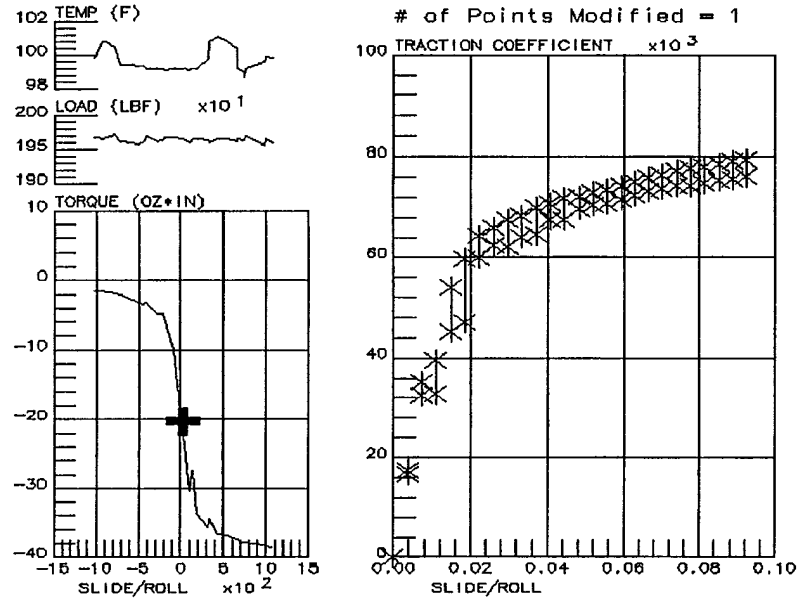
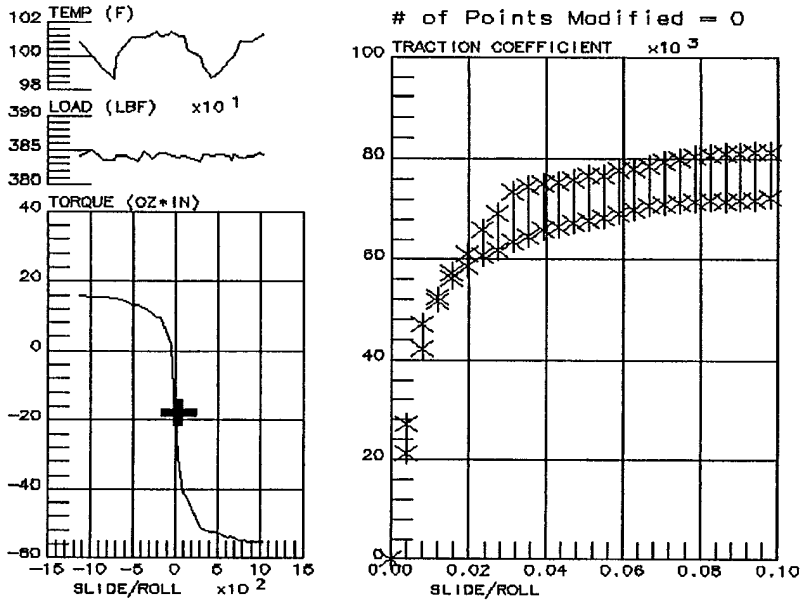


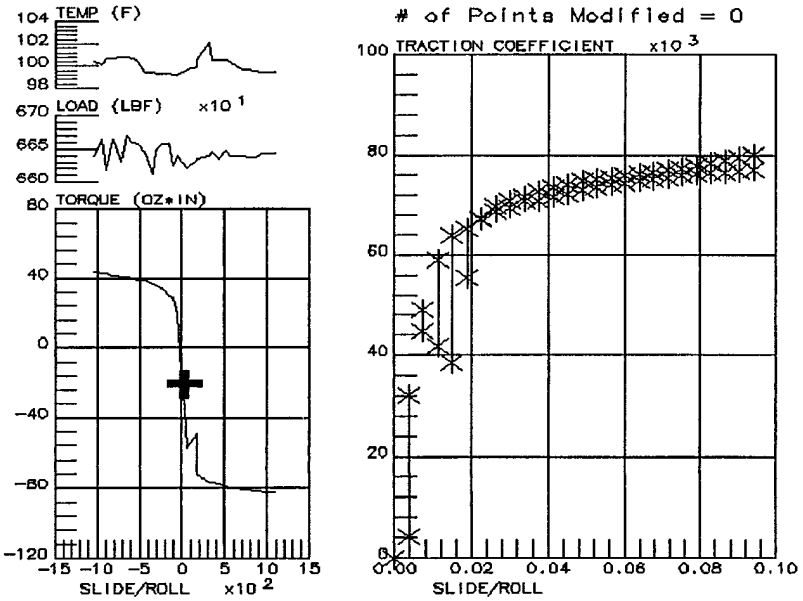
CO 90-715 ~220 Hatcol 3110 #65
100F 20LBF 306RPM 2 FILE: co100mex



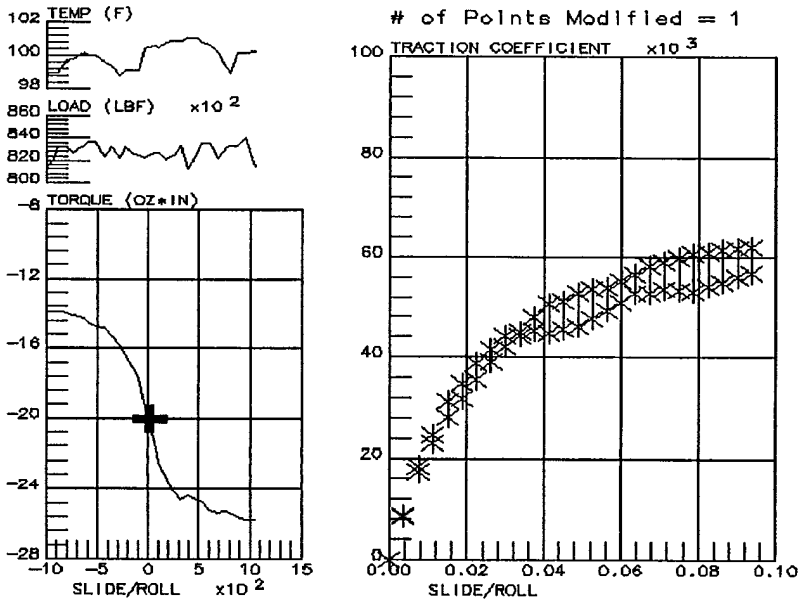
CO 90-715 ~220 Hatcol 3110 #66
100F 38LBF 306RPM 3 FILE: co100mex



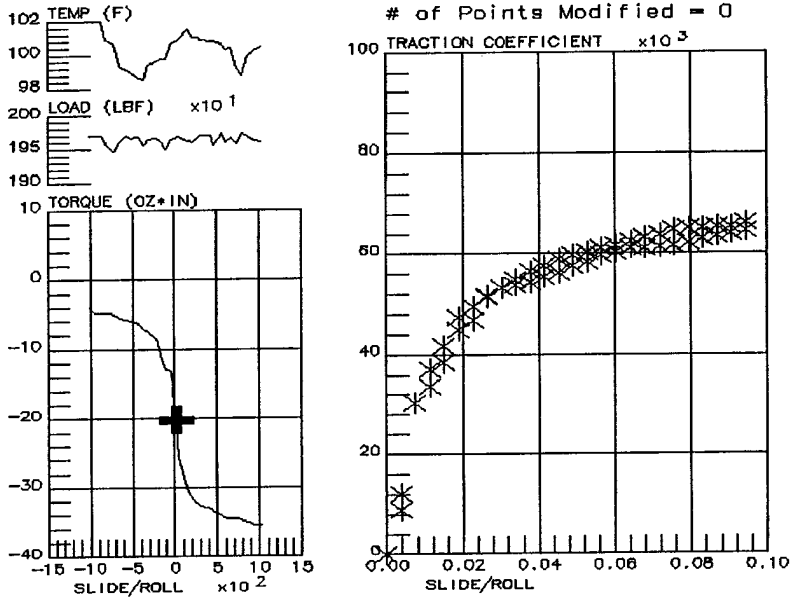
CO 90-715 ~220 Hatcol 3110 #67
100F 66LBF 306RPM 4 FILE: co100mex



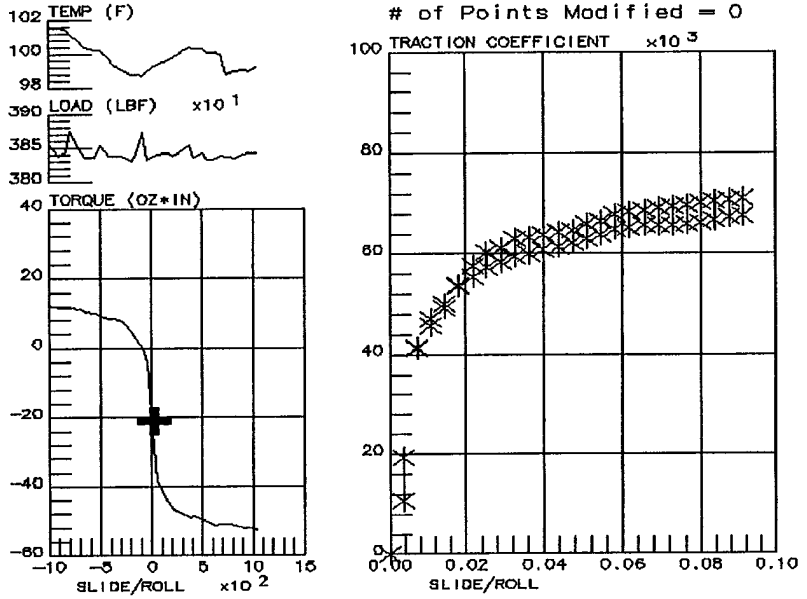
CO 90-715 ~220 Hatcol 3110 #68
100F 8LBF 651RPM 5 FILE: co100mex



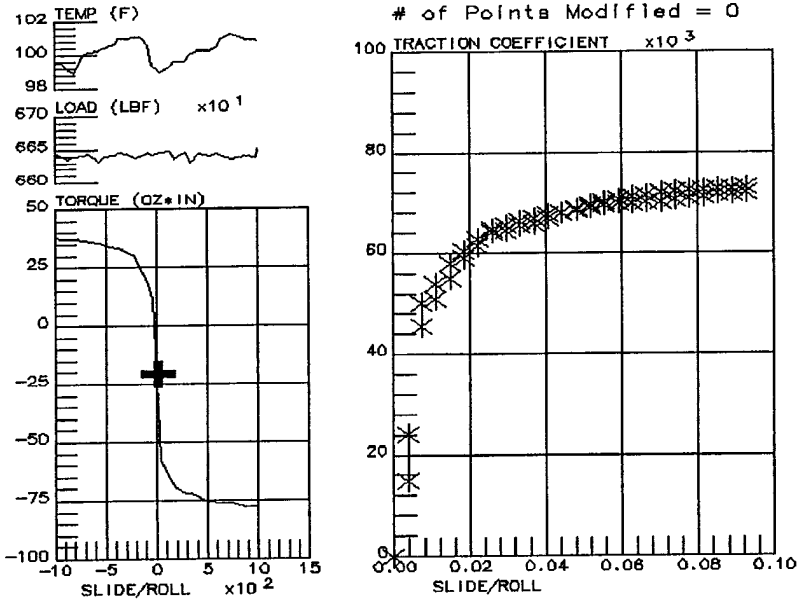
CO 90-715 ~220 Hatcol 3110 #69
100F 20LBF 651RPM 8 FILE: co100mex



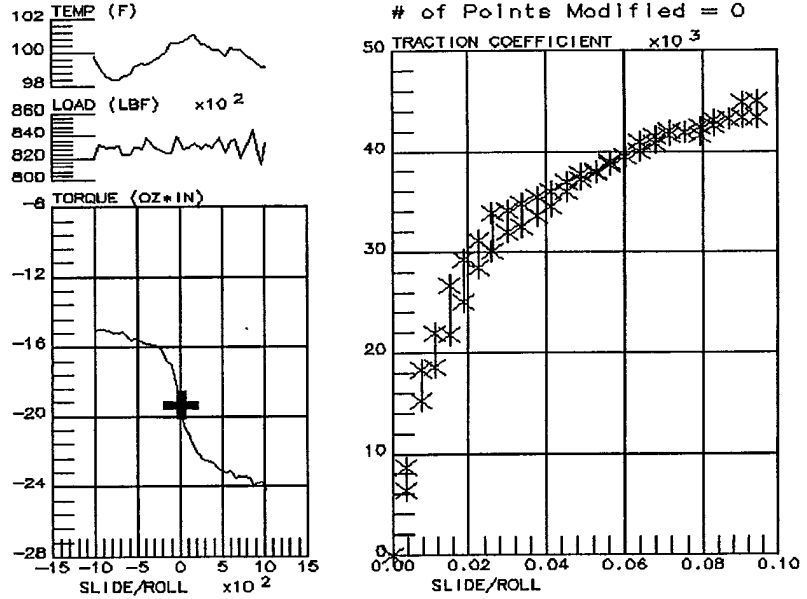
CO 90-715 ~220 Hatcol 3110 #70
100F 38LBF 651RPM 7 FILE: co100mex



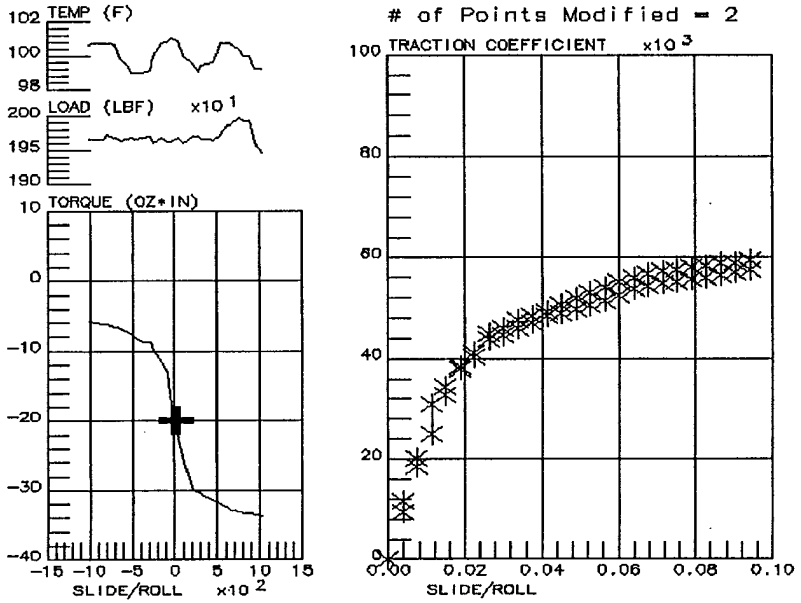
CO 90-715 ~220 Hatcol 3110 #71
100F 66LBF 651RPM 8 FILE: co100mex



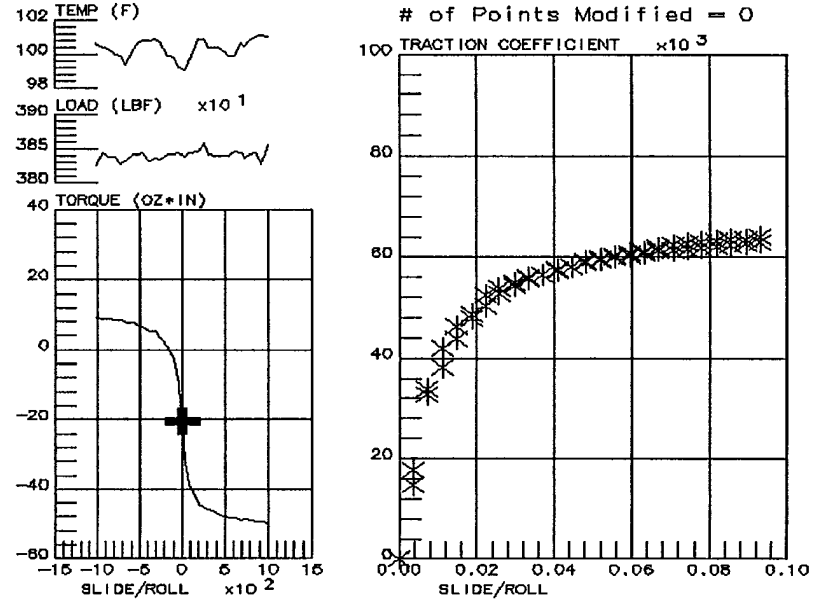
CO 90-715 ~220 Hatcol 3110 #72
100F 8LBF 1264RPM 9 FILE: co100mex



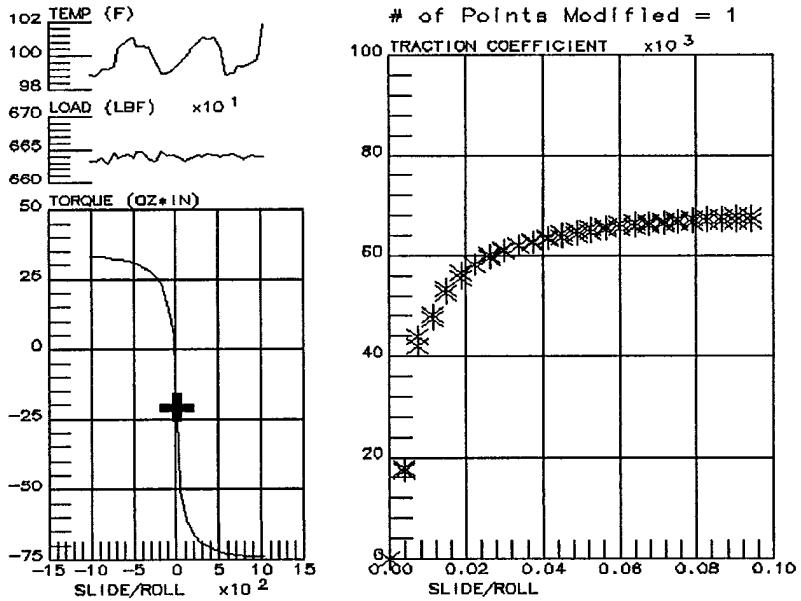
CO 90-715 ~220 Hatcol 3110 #73
100F 20LBF 1264RPM 10 FILE: co100mex



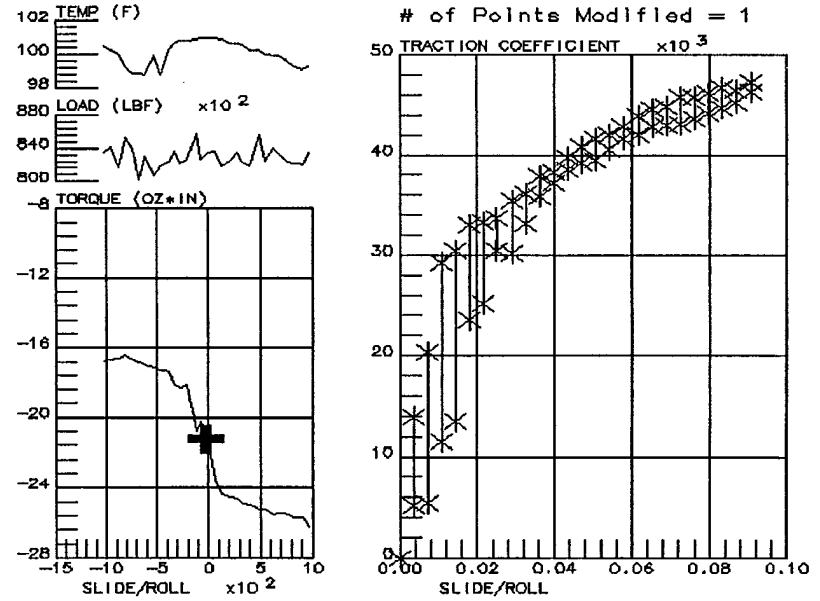
CO 90-715 ~220 Hatcol 3110 #74
100F 38LBF 1264RPM 11 FILE: co100mex



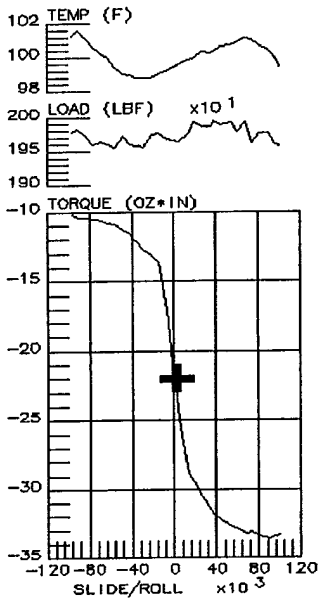
CO 90-715 ~220 Hatcol 3110 #75
100F 66LBF 1264RPM 12 FILE: co100mex



CO 90-715 ~220 Hatcol 3110 #76
100F 8LBF 2563RPM 13 FILE: co100mex



CO 90-715 ~220 Hatcol 3110 #77
100F 20LBF 2563RPM 14 FILE: co100mex



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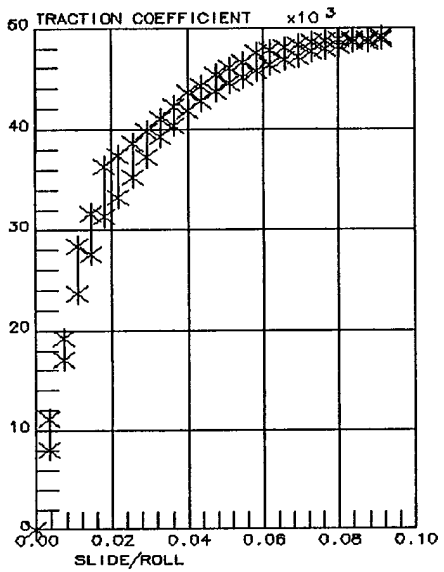
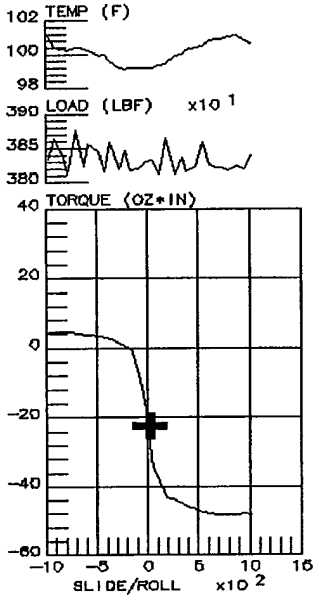


CO 90-715 ~220 Hatcol 3110 #78
100F 38LBF 2563RPM 15 FILE: co100mex



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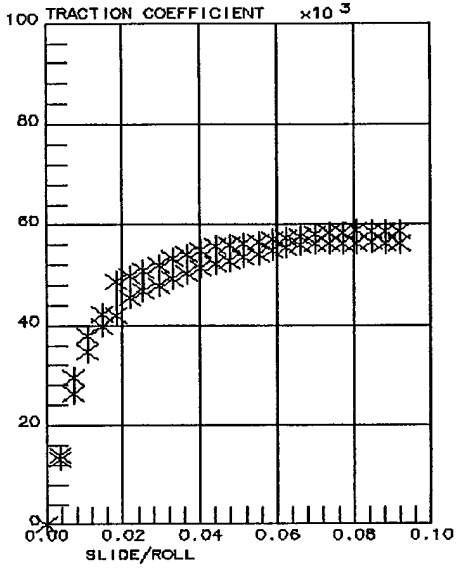
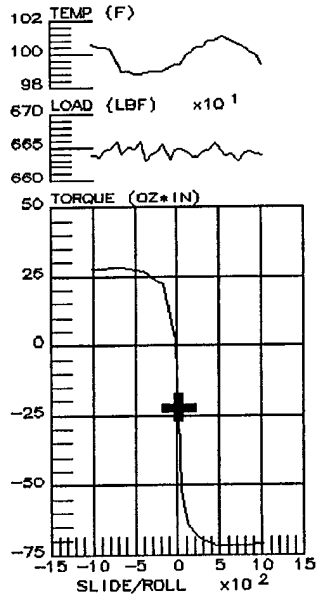


CO 90-715 ~220 Hatcol 3110 #79
100F 66LBF 2563RPM 16 FILE: co100mex



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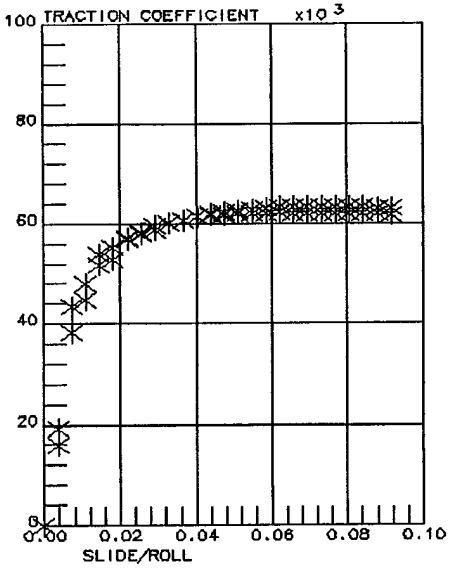
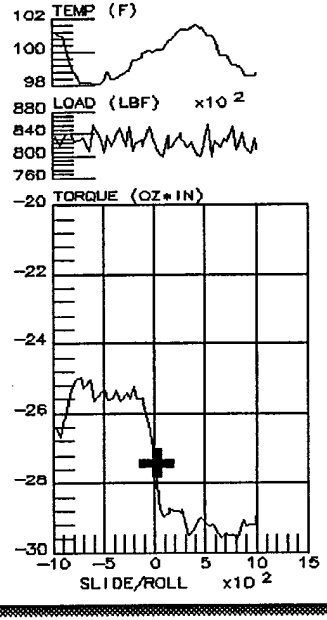


CO 90-715 ~220 Hatcol 3110 #80
100F 8LBF 5097RPM 1 FILE: co100vh



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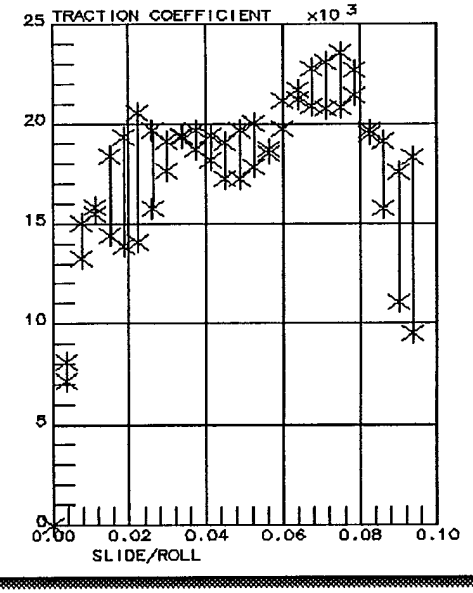
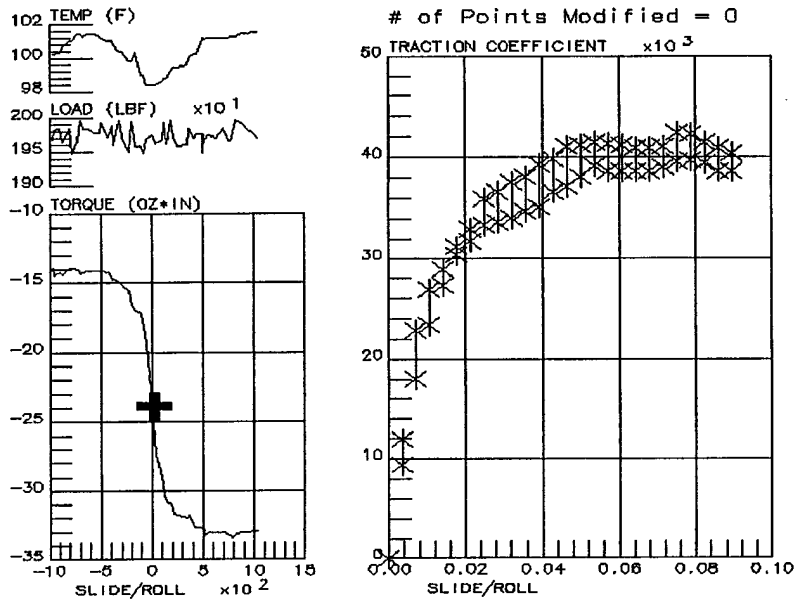
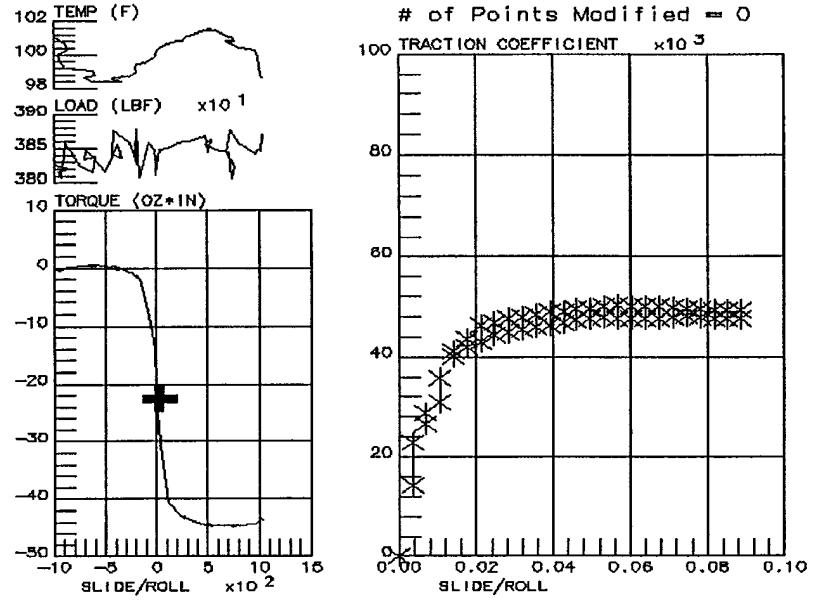


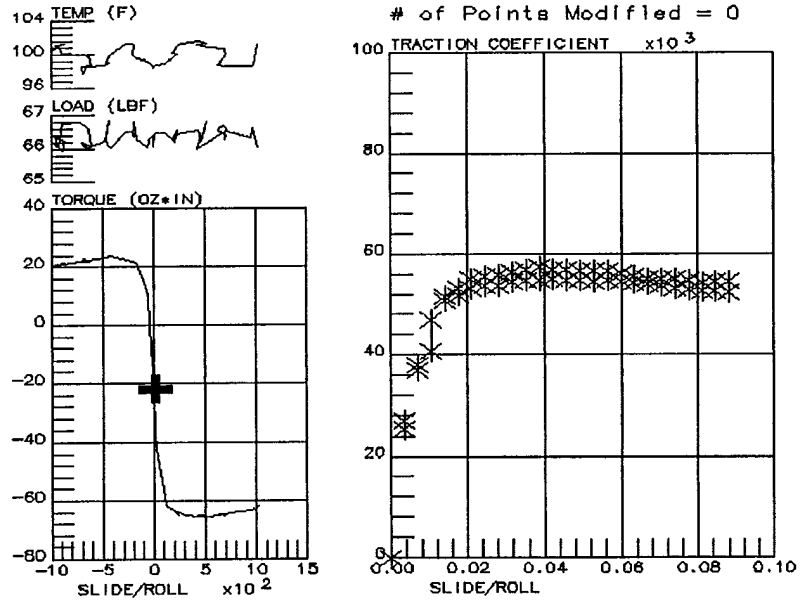
CO 90-715 ~220 Hatcol 3110 #81
100F 20LBF 5097RPM 2 FILE: co100vh



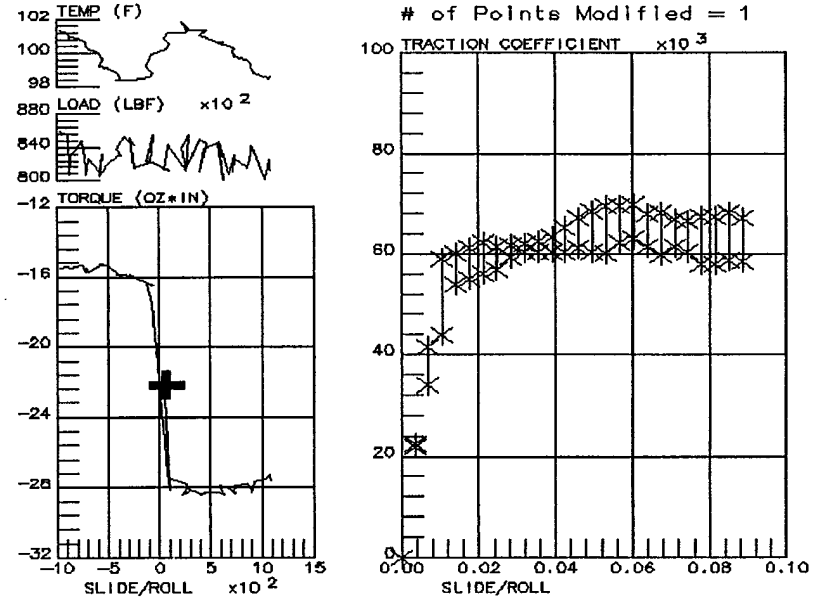
CO 90-715 ~220 Hatcol 3110 #82
100F 38LBF 5097RPM 3 FILE: co100vh



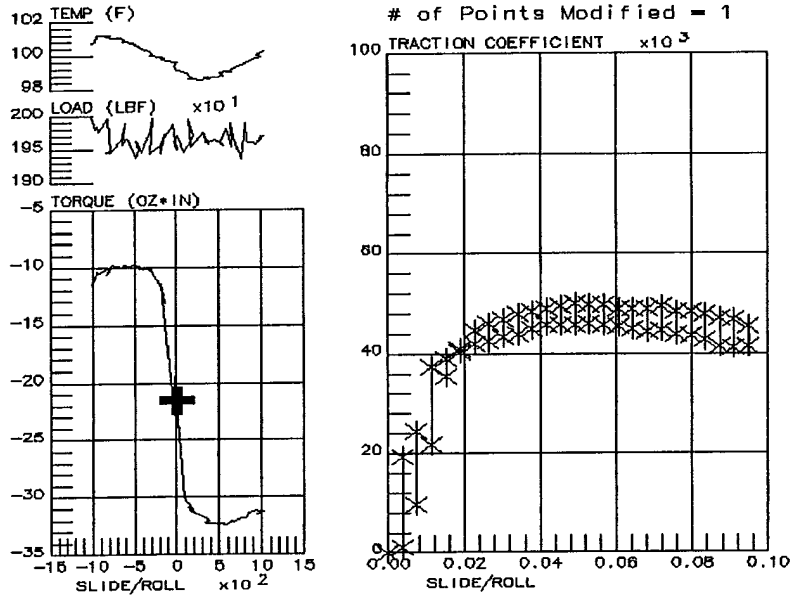
CO 90-715 ~220 Hatcol 3110 #83
100F 66LBF 5097RPM 4 FILE: co100vh



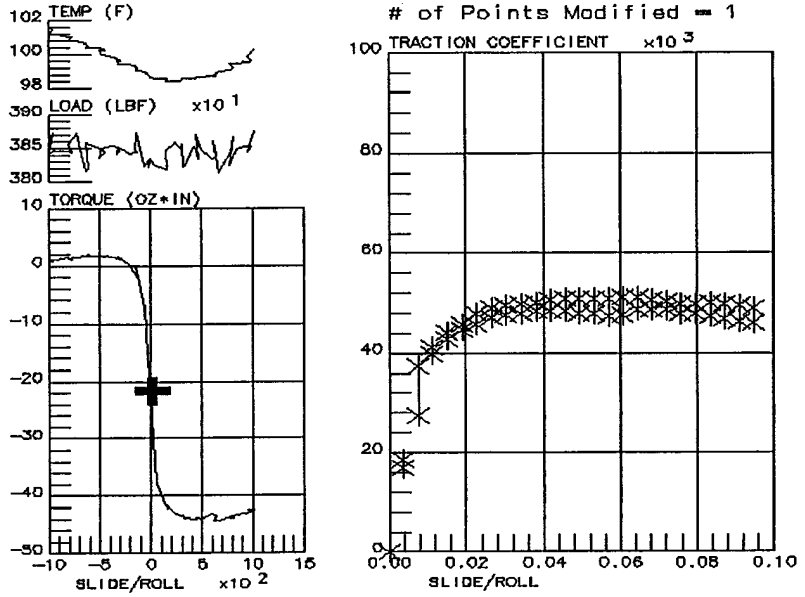
CO 90-715 ~220 Hatcol 3110 #84
100F 8LBF 7665RPM 5 FILE: co100vh



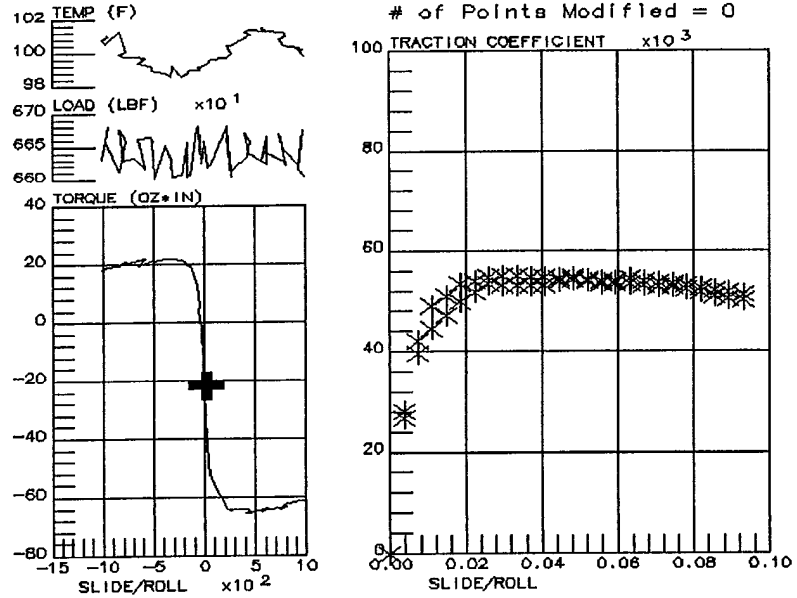
CO 90-715 ~220 Hatcol 3110 #85
100F 20LBF 7665RPM 8 FILE: co100vh



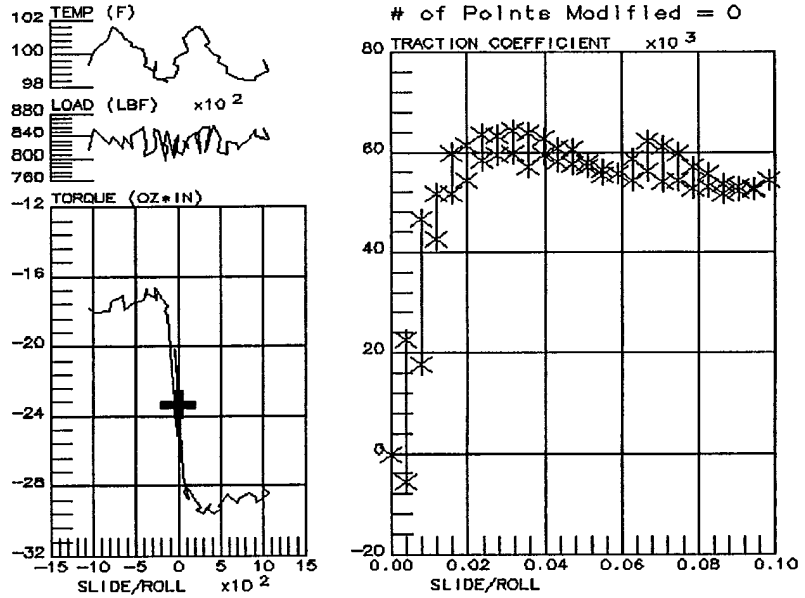
CO 90-715 ~220 Hatcol 3110 #86
100F 38LBF 7665RPM 7 FILE: co100vh



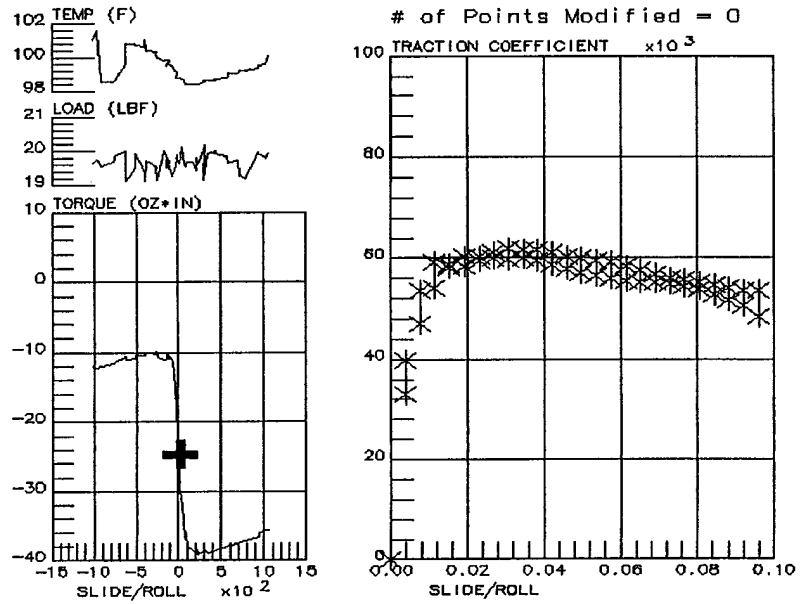
CO 90-715 ~220 Hatcol 3110 #87
100F 66LBF 7665RPM 8 FILE: co100vh



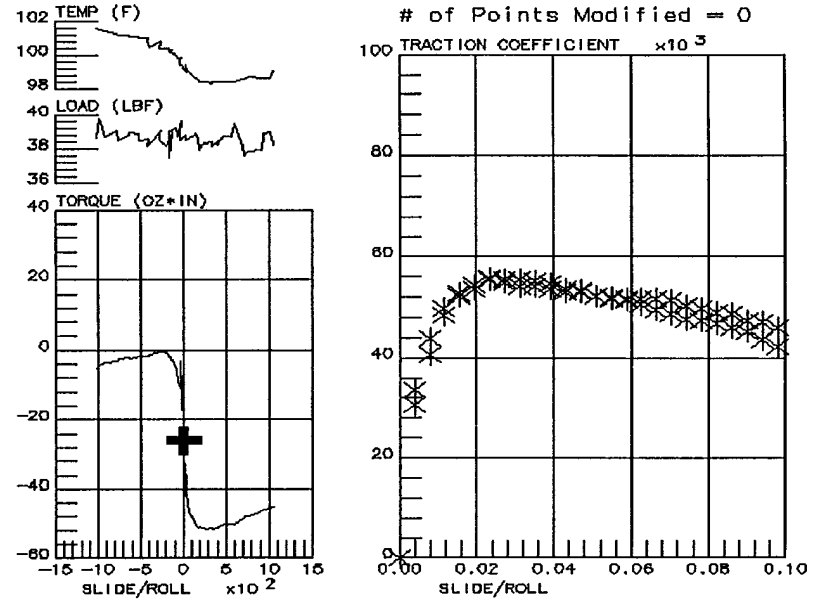
CO 90-715 ~220 Hatcol 3110 #88
100F 8LBF 10225RPM 9 FILE: co100vh



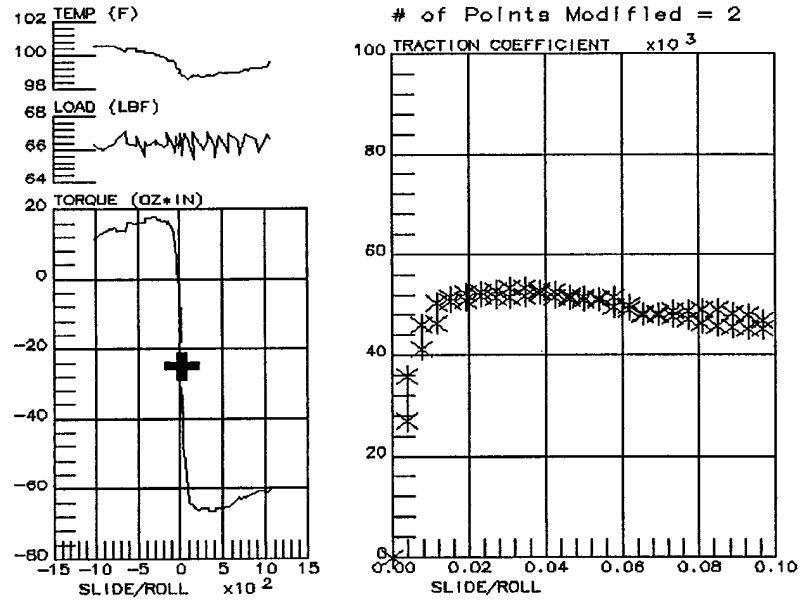
CO 90-715 ~220 Hatcol 3110 #89
100F 20LBF 10225RPM 10 FILE: co100vh



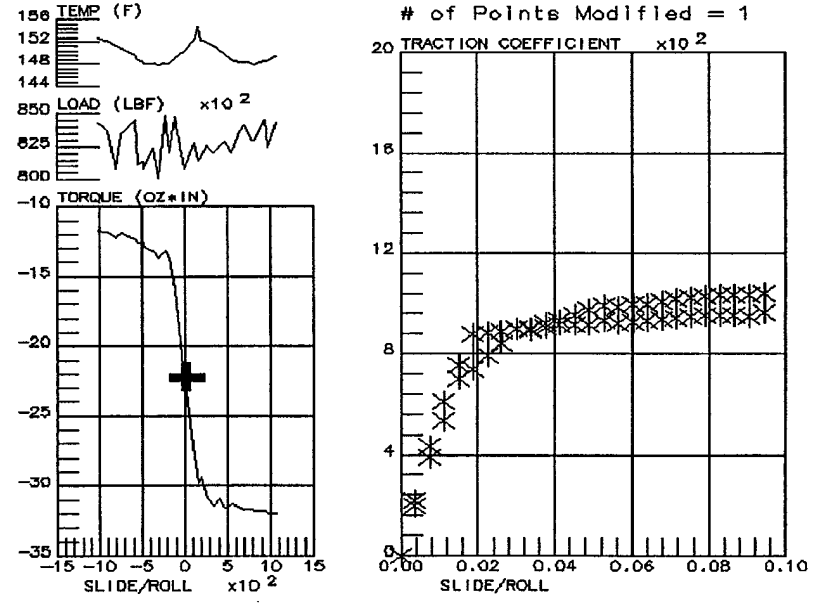
CO 90-715 ~220 Hatcol 3110 #90
100F 38LBF 10225RPM 11 FILE: co100vh



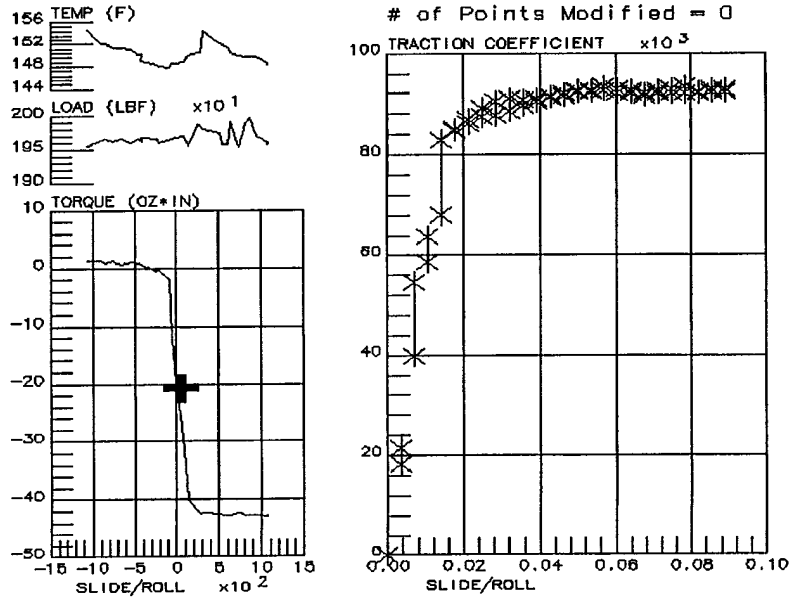
CO 90-715 ~220 Hatcol 3110 #91
100F 66LBF 10225RPM 12 FILE: co100vh



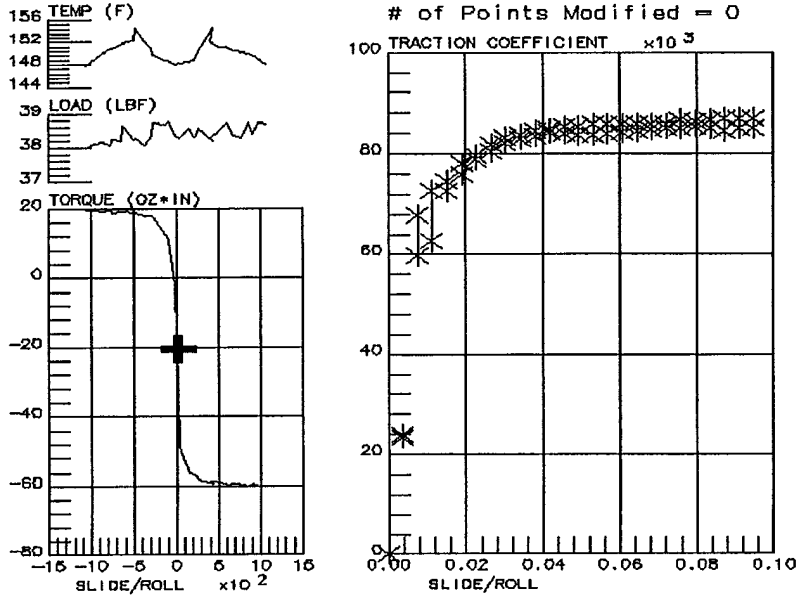
CO 90-715 ~220 Hatcol 3110 #92
150F 8LBF 306RPM 1 FILE: co150v1



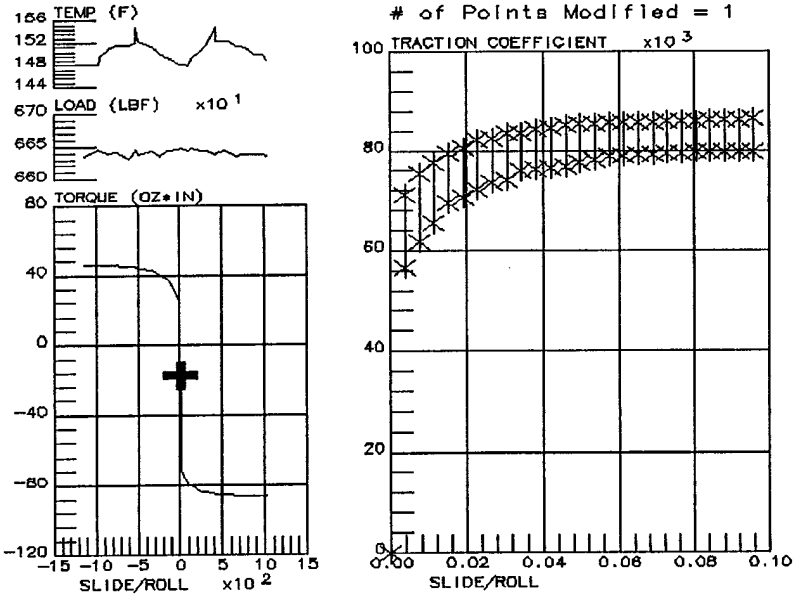
CO 90-715 ~220 Hatcol 3110 #93
150F 20LBF 306RPM 2 FILE: co150v1



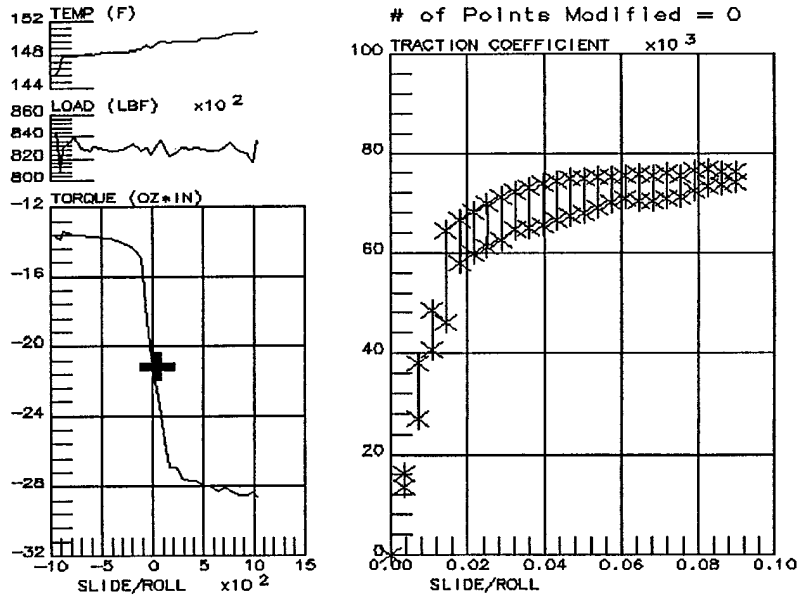
CO 90-715 ~220 Hatcol 3110 #94
150F 38LBF 306RPM 3 FILE: co150v1



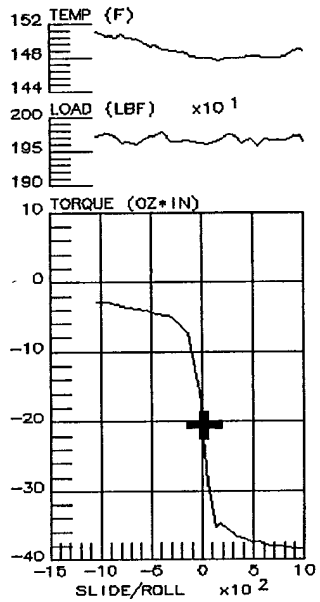
CO 90-715 ~220 Hatcol 3110 #95
150F 66LBF 306RPM 4 FILE: co150v1



CO 90-715 ~220 Hatcol 3110 #96
150F 8LBF 651RPM 5 FILE: co150v1



CO 90-715 ~220 Hatcol 3110 #97
150F 20LBF 651RPM 6 FILE: co150v1



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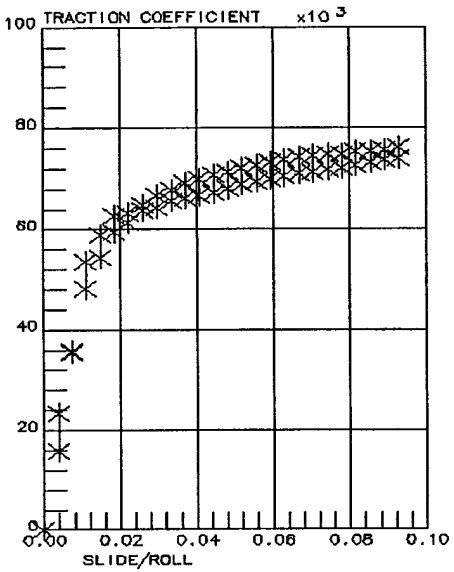
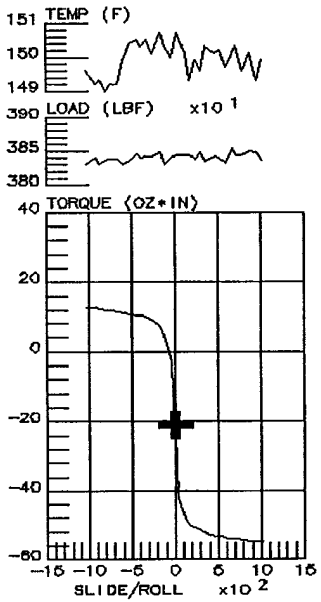


CO 90-715 ~220 Hatcol 3110 #98
150F 38LBF 651RPM 7 FILE: co150v1



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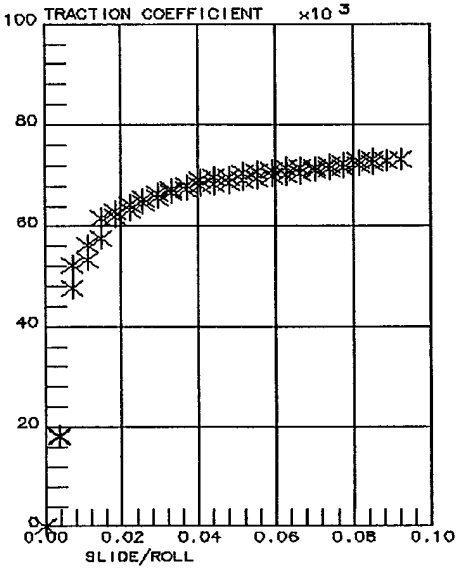
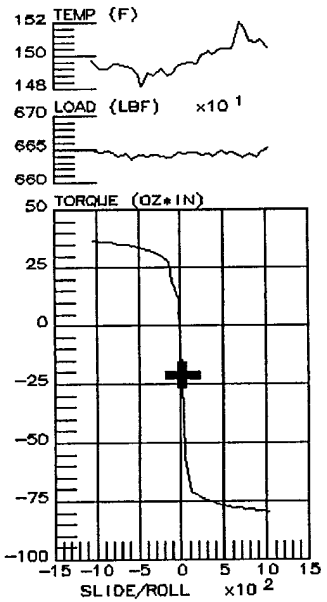


CO 90-715 ~220 Hatcol 3110 #99
150F 66LBF 651RPM 8 FILE: co150v1



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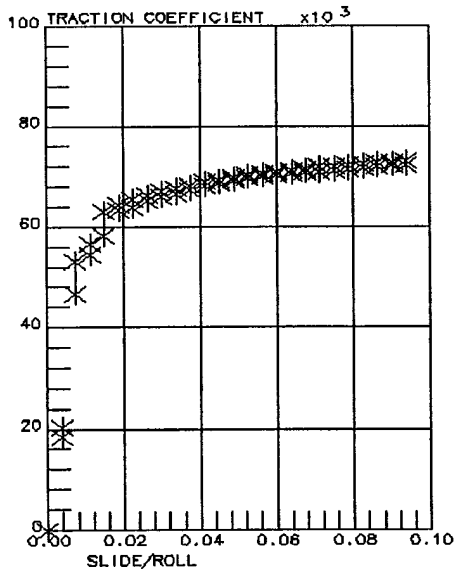
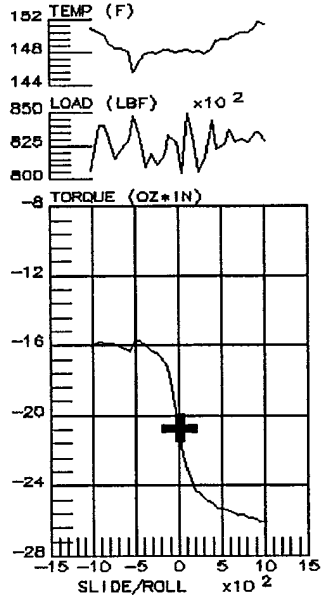


CO 90-715 ~220 Hatcol 3110 #100
150F 8LBF 1264RPM 9 FILE: co150v1



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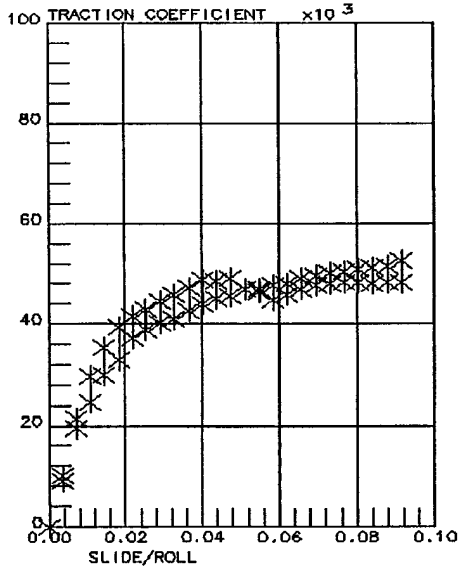
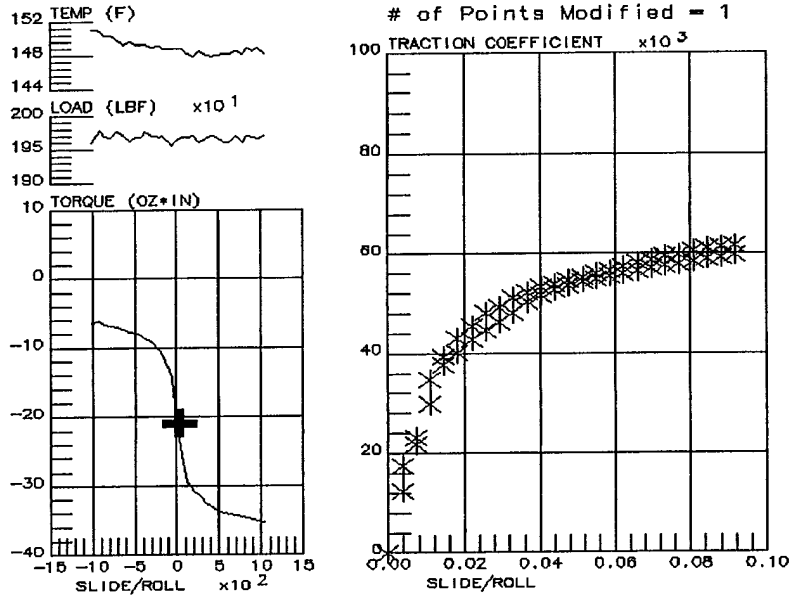
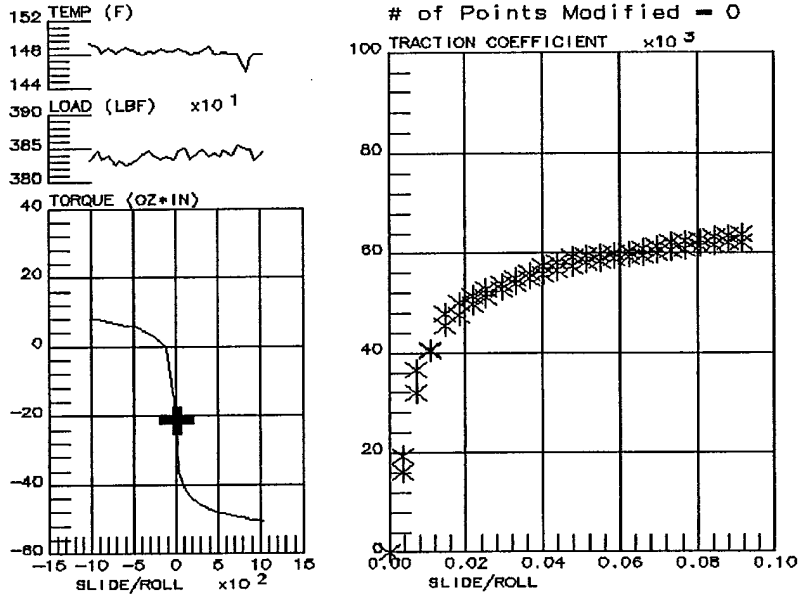


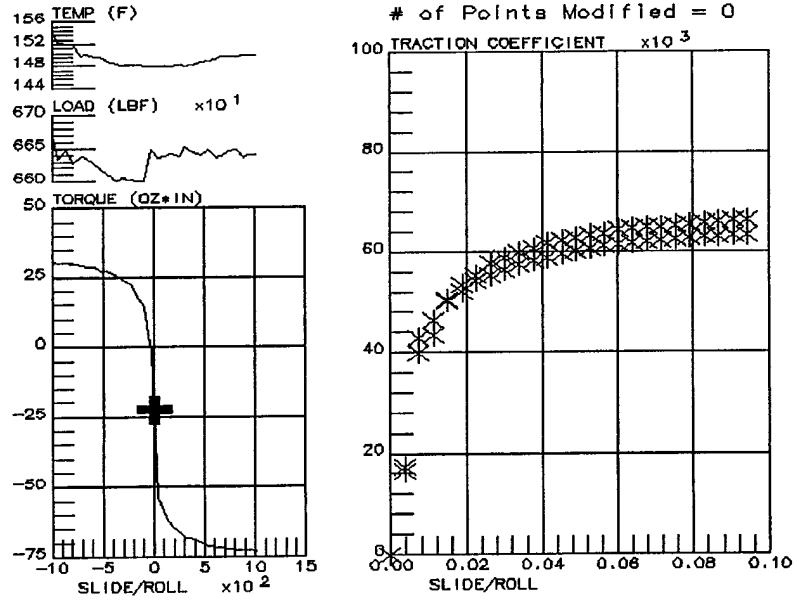
CO 90-715 ~220 Hatcol 3110 #101
150F 20LBF 1264RPM 10 FILE: co150v1



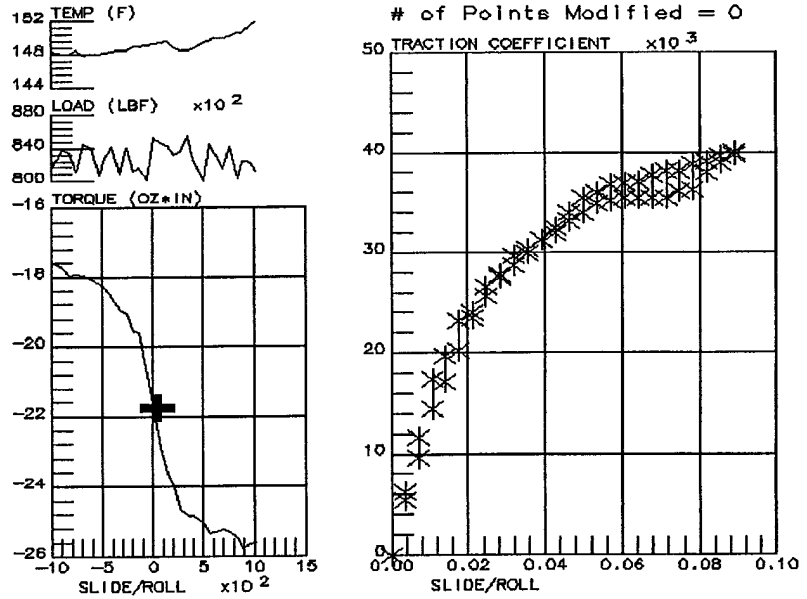
CO 90-715 ~220 Hatcol 3110 #102
150F 38LBF 1264RPM 11 FILE: co150v1



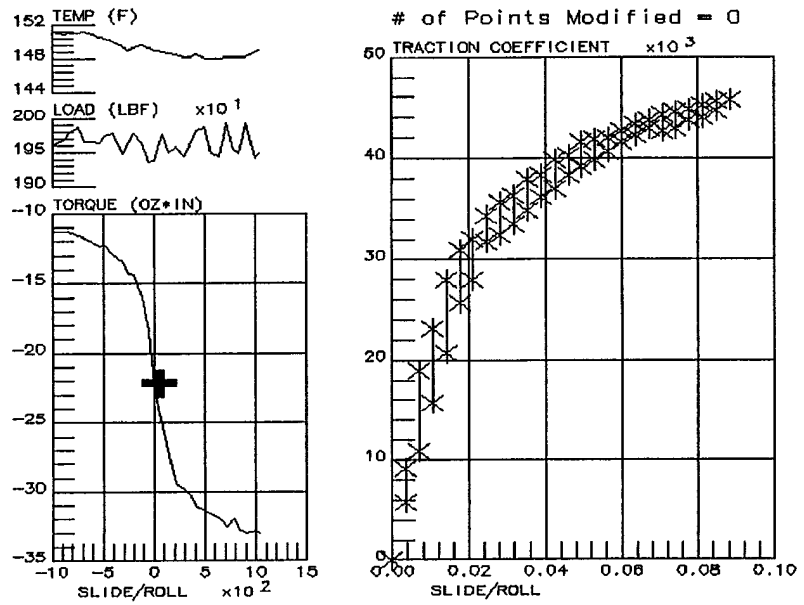
CO 90-715 ~220 Hatcol 3110 #103
150F 66LBF 1264RPM 12 FILE: co150v1



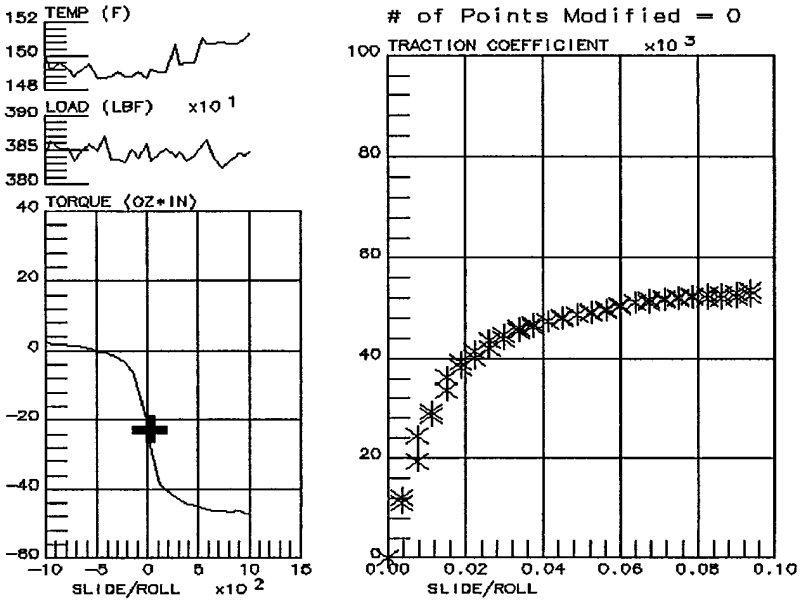
CO 90-715 ~220 Hatcol 3110 #104
150F 8LBF 2563RPM 13 FILE: co150v1



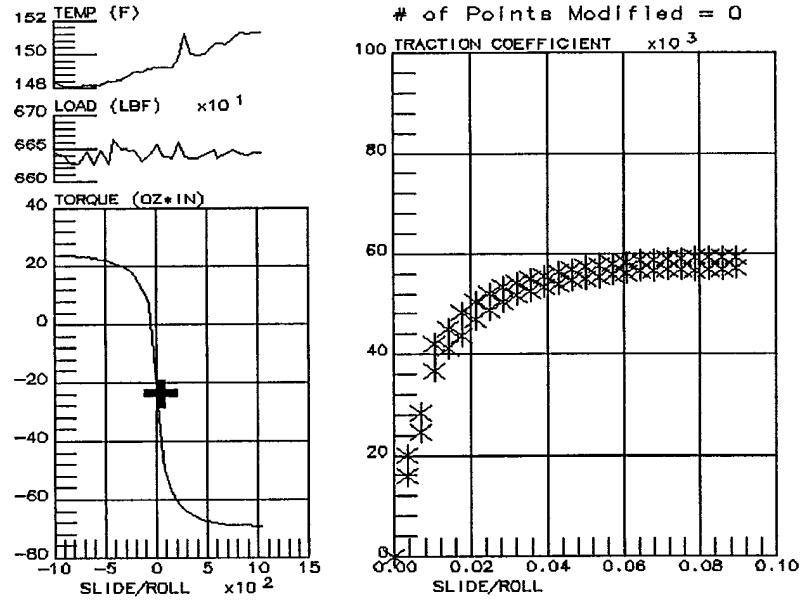
CO 90-715 ~220 Hatcol 3110 #105
150F 20LBF 2563RPM 14 FILE: co150v1



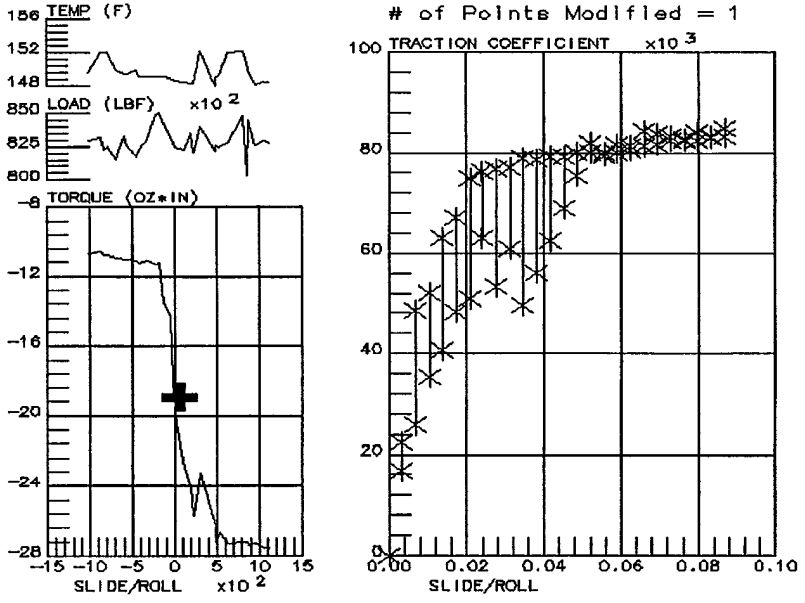
CO 90-715 ~220 Hatcol 3110 #106
150F 38LBF 2563RPM 15 FILE: co150v1



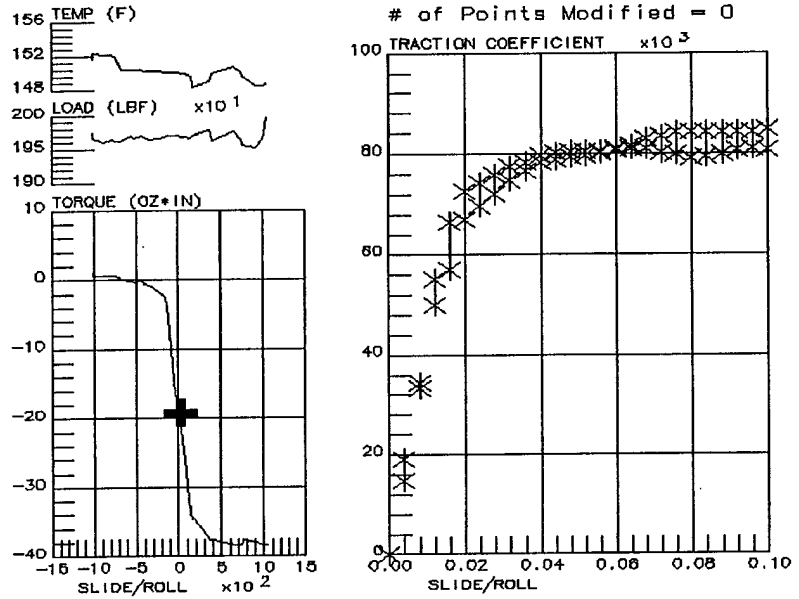
CO 90-715 ~220 Hatcol 3110 #107
150F 66LBF 2563RPM 16 FILE: co150v1



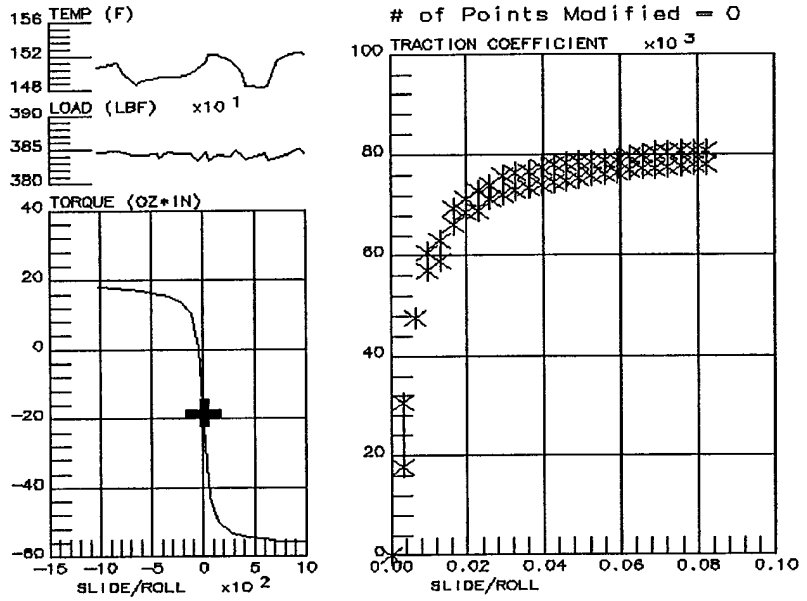
CO 90-715 ~220 Hatcol 3110 #108
150F 8LBF 306RPM 1 FILE: co150med



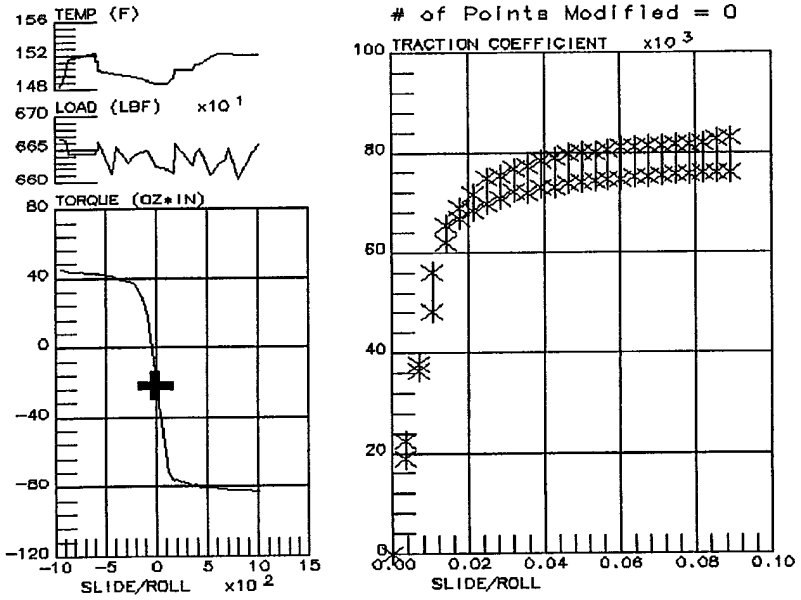
CO 90-715 ~220 Hatcol 3110 #109
150F 20LBF 306RPM 2 FILE: co150med



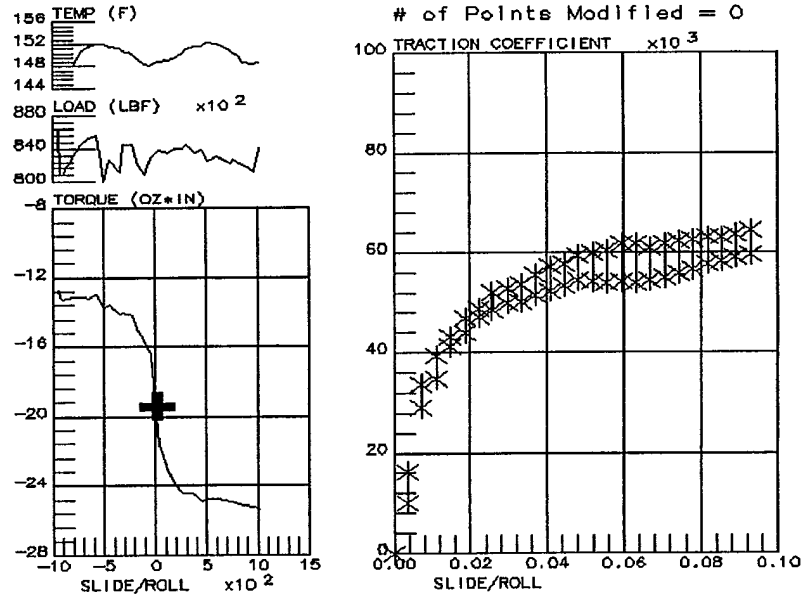
CO 90-715 ~220 Hatcol 3110 #110
150F 38LBF 306RPM 3 FILE: co150med



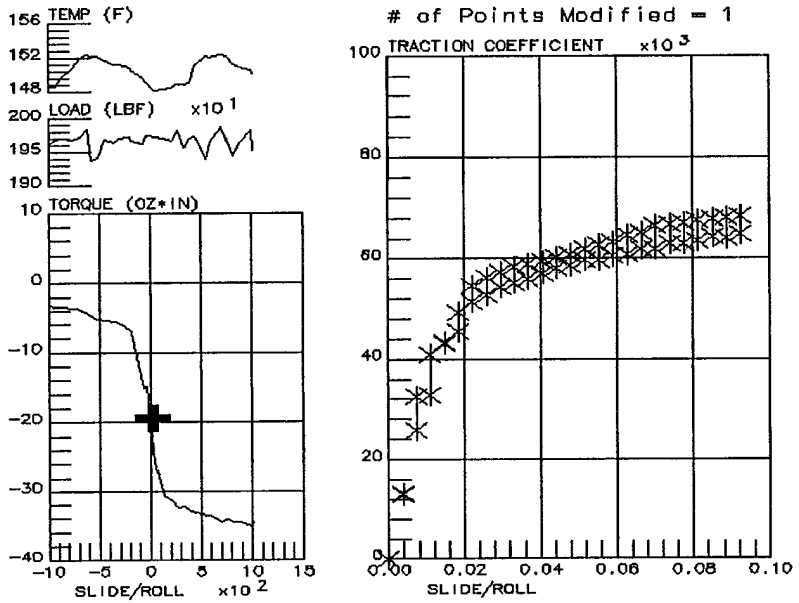
CO 90-715 ~220 Hatcol 3110 #111
150F 66LBF 306RPM 4 FILE: co150med



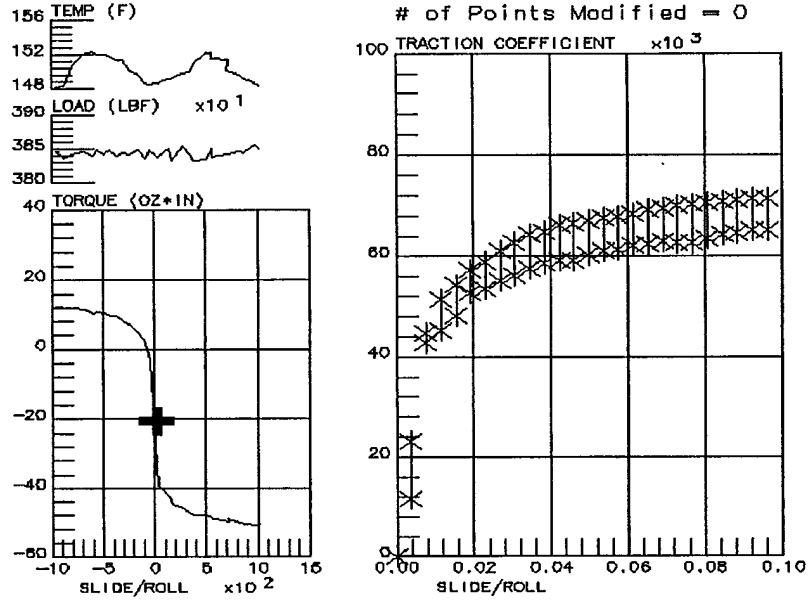
CO 90-715 ~220 Hatcol 3110 #112
150F 8LBF 651RPM 5 FILE: co150med



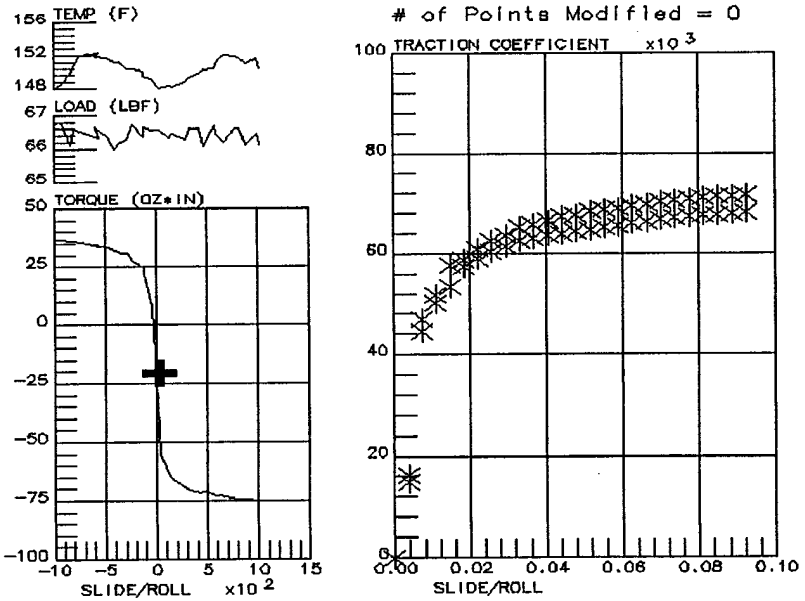
CO 90-715 ~220 Hatcol 3110 #113
150F 20LBF 651RPM 6 FILE: co150med



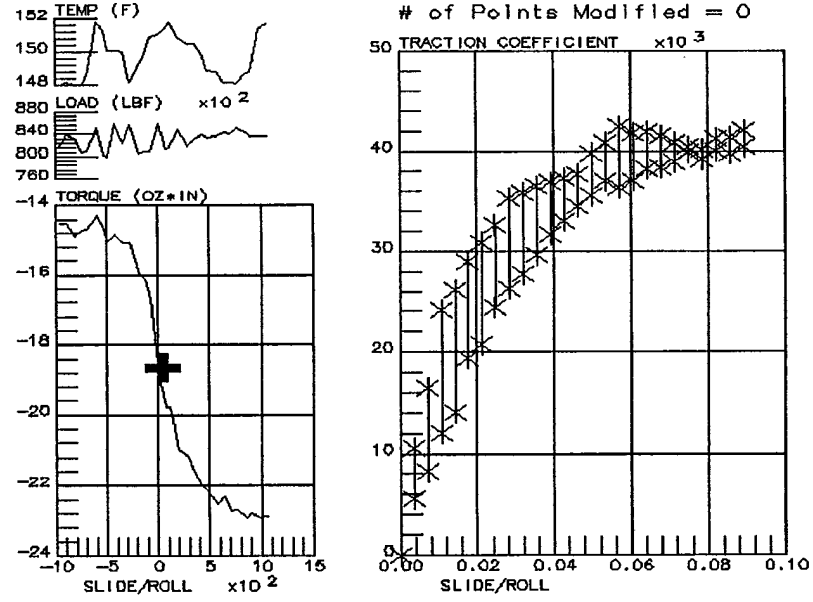
CO 90-715 ~220 Hatcol 3110 #114
150F 38LBF 651RPM 7 FILE: co150med



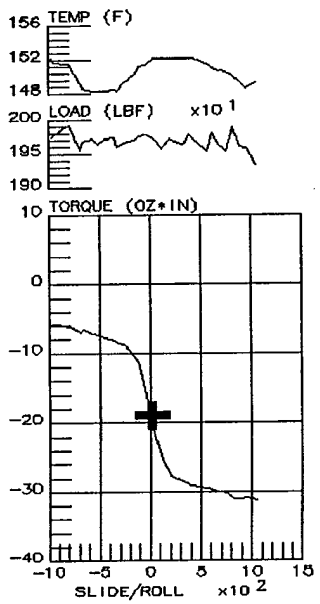
CO 90-715 ~220 Hatcol 3110 #115
150F 66LBF 651RPM 8 FILE: co150med



CO 90-715 ~220 Hatcol 3110 #116
150F 8LBF 1264RPM 9 FILE: co150med



CO 90-715 ~220 Hatcol 3110 #117
150F 20LBF 1264RPM 10 FILE: co150med



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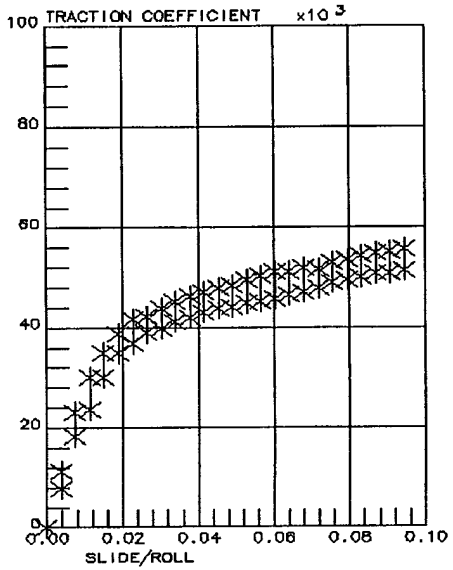
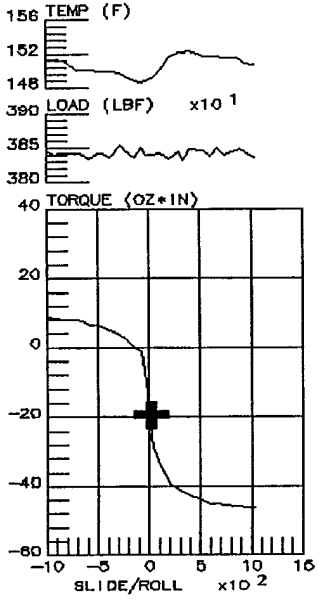


CO 90-715 ~220 Hatcol 3110 #118
150F 38LBF 1264RPM 11 FILE: co150med



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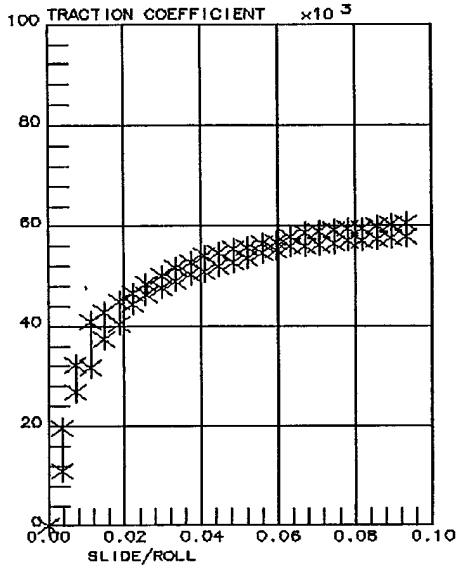
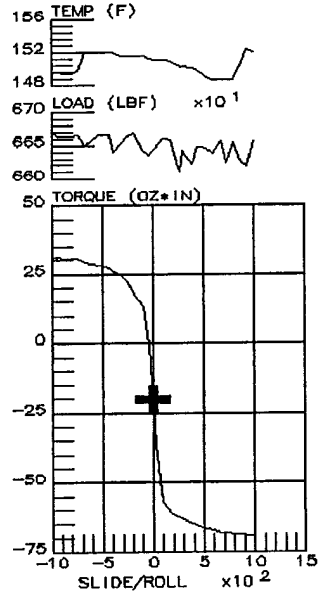


CO 90-715 ~220 Hatcol 3110 #119
150F 66LBF 1264RPM 12 FILE: co150med



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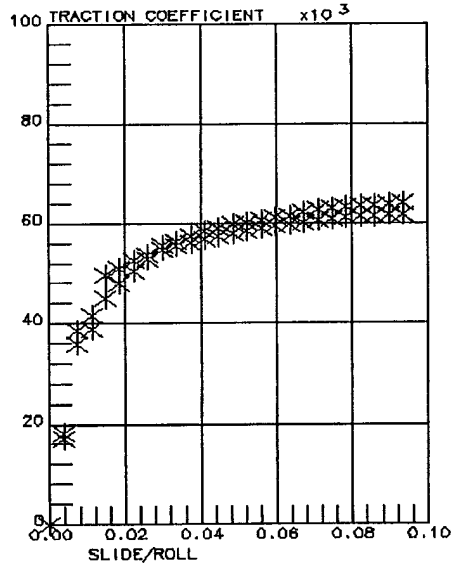
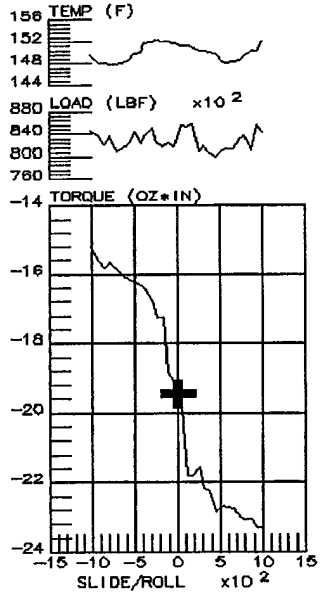


CO 90-715 ~220 Hatcol 3110 #120
150F 8LBF 2563RPM 13 FILE: co150med



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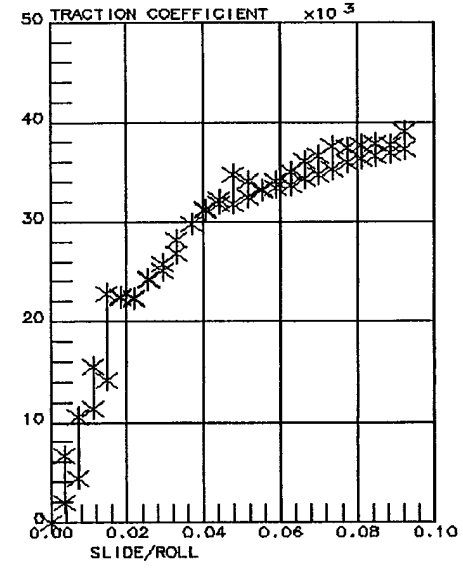
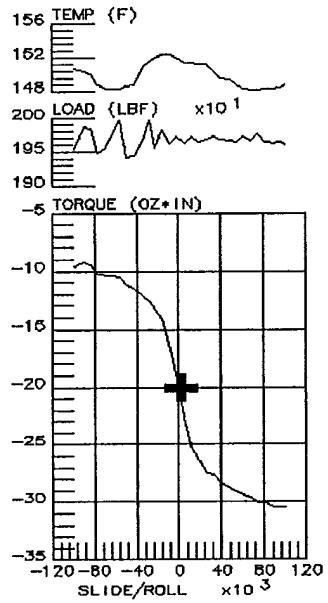


CO 90-715 ~220 Hatcol 3110 #121
150F 20LBF 2563RPM 14 FILE: co150med



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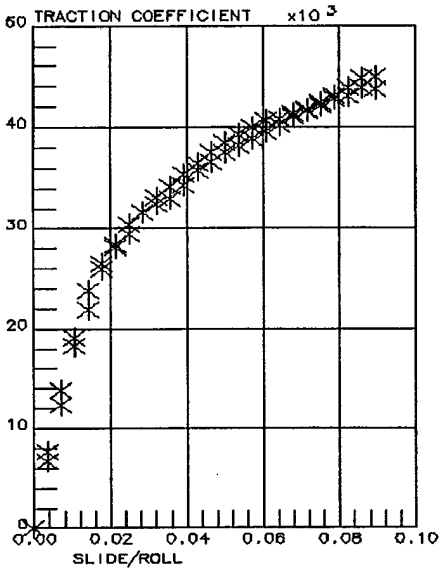
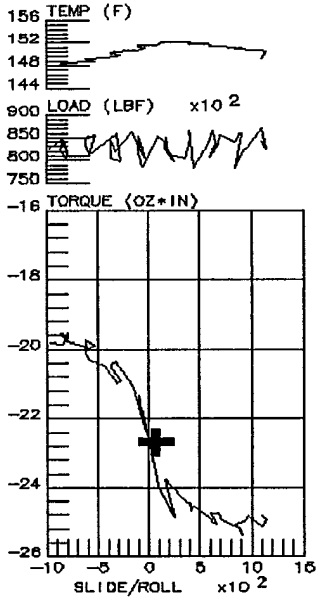


CO 90-715 ~220 Hatcol 3110 #122
150F 8LBF 5097RPM 1 FILE: co150vh



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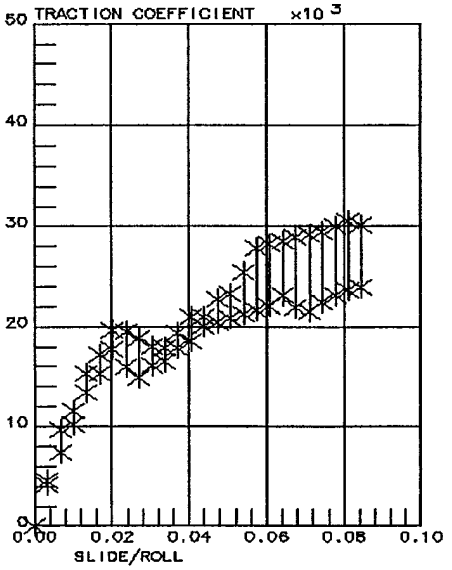
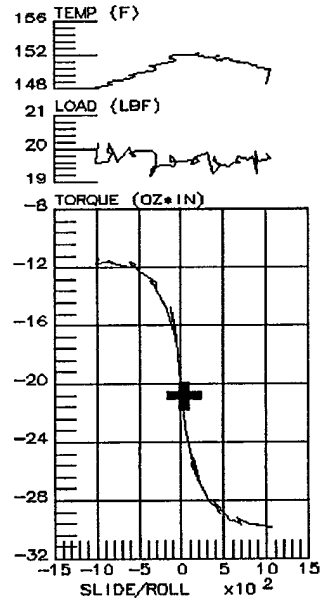


CO 90-715 ~220 Hatcol 3110 #123
150F 20LBF 5097RPM 2 FILE: co150vh



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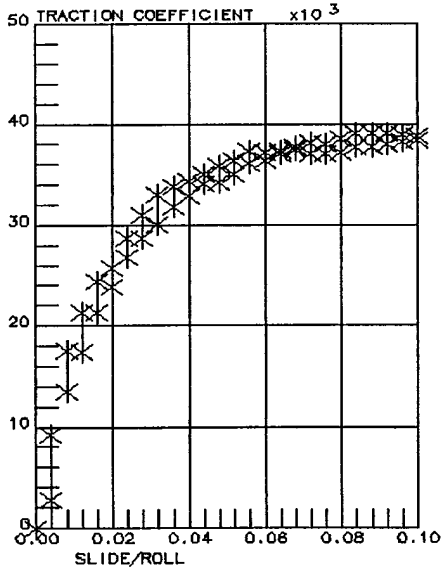
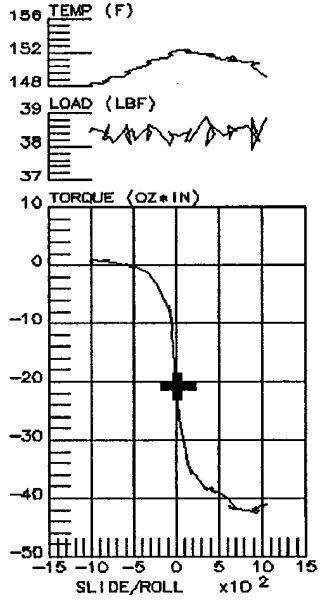


CO 90-715 ~220 Hatcol 3110 #124
150F 38LBF 5097RPM 3 FILE: co150vh



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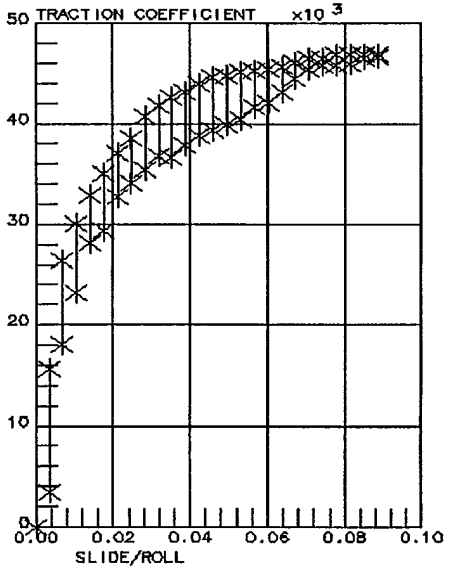
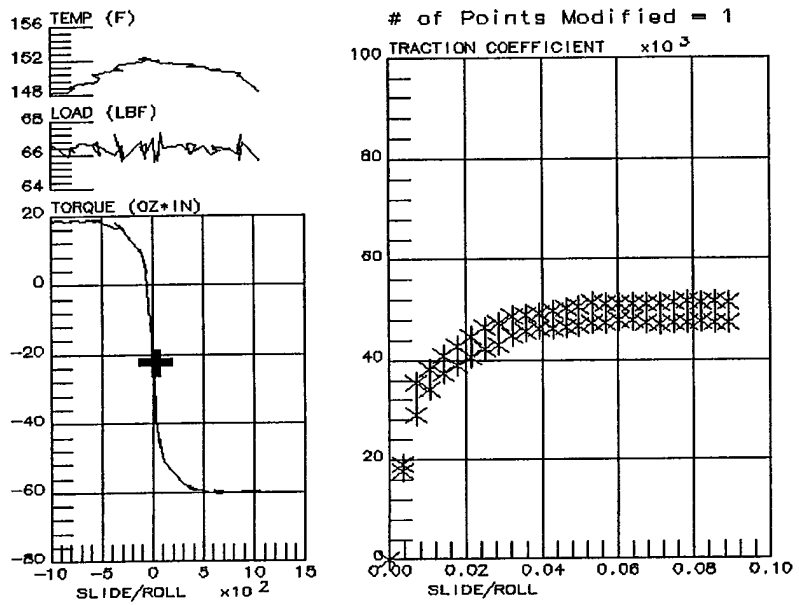
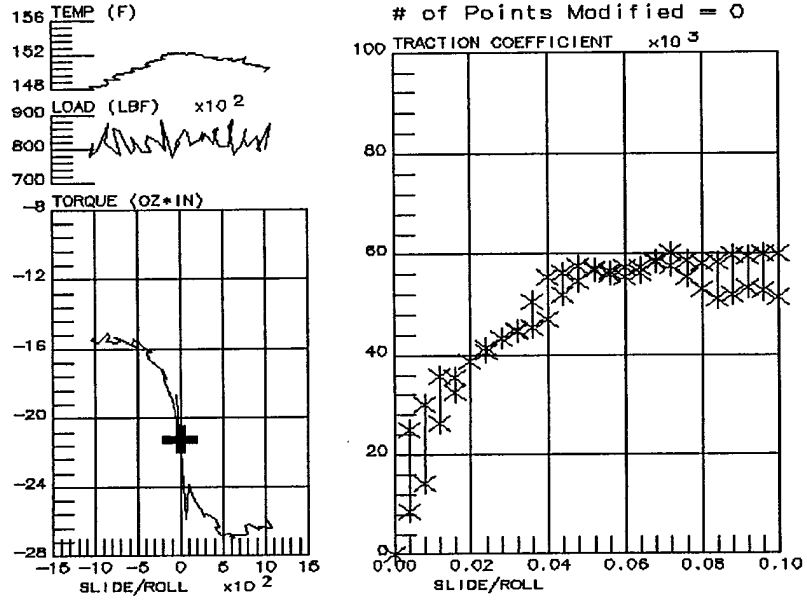


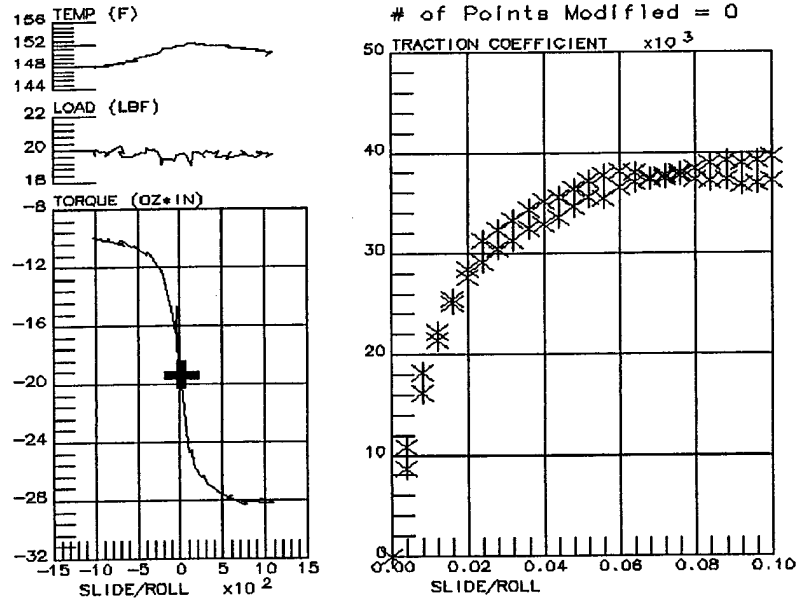
CO 90-715 ~220 Hatcol 3110 #125
150F 66LBF 5097RPM 4 FILE: co150vh



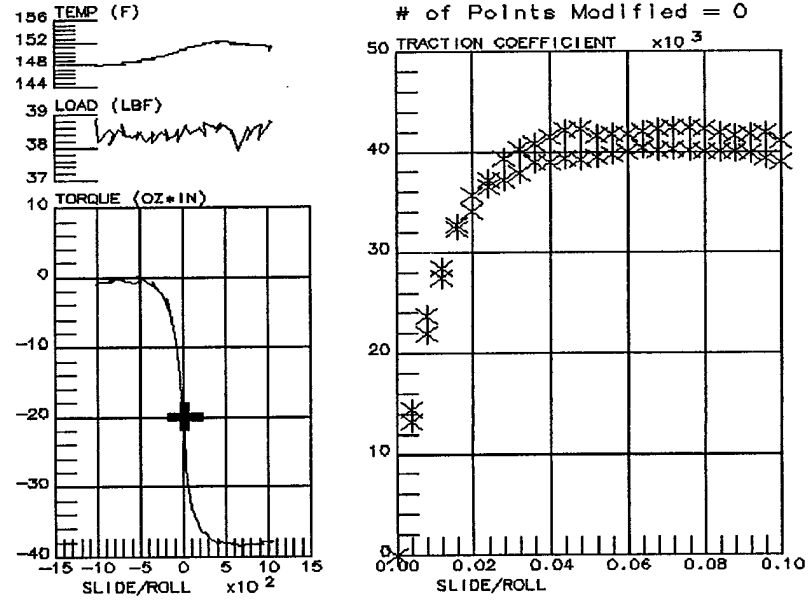
CO 90-715 ~220 Hatcol 3110 #126
150F 8LBF 7665RPM 5 FILE: co150vh



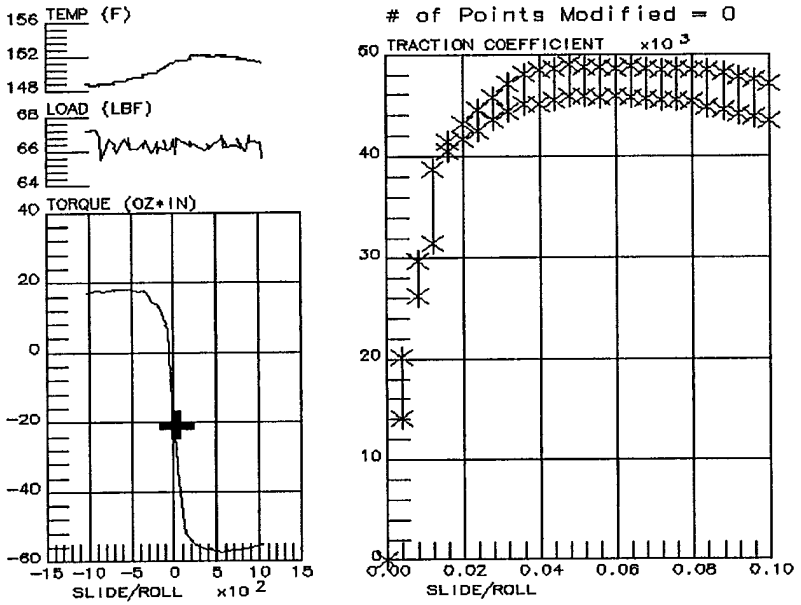
CO 90-715 ~220 Hatcol 3110 #127
150F 20LBF 7665RPM 6 FILE: co150vh



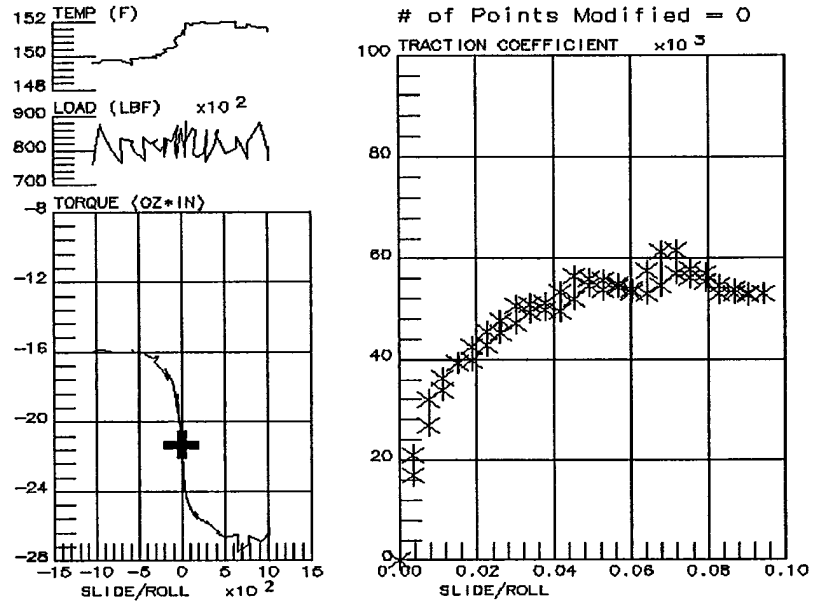
CO 90-715 ~220 Hatcol 3110 #128
150F 38LBF 7665RPM 7 FILE: co150vh



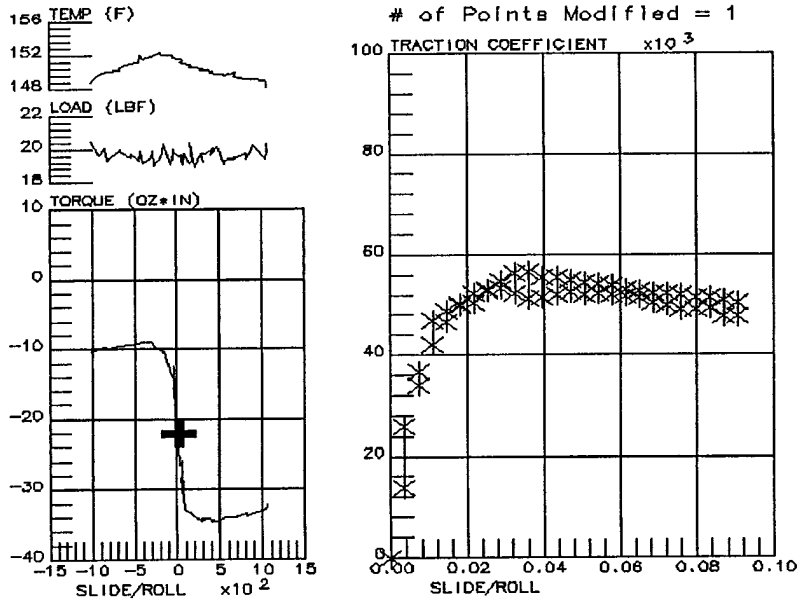
CO 90-715 ~220 Hatcol 3110 #129
150F 66LBF 7665RPM 8 FILE: co150vh



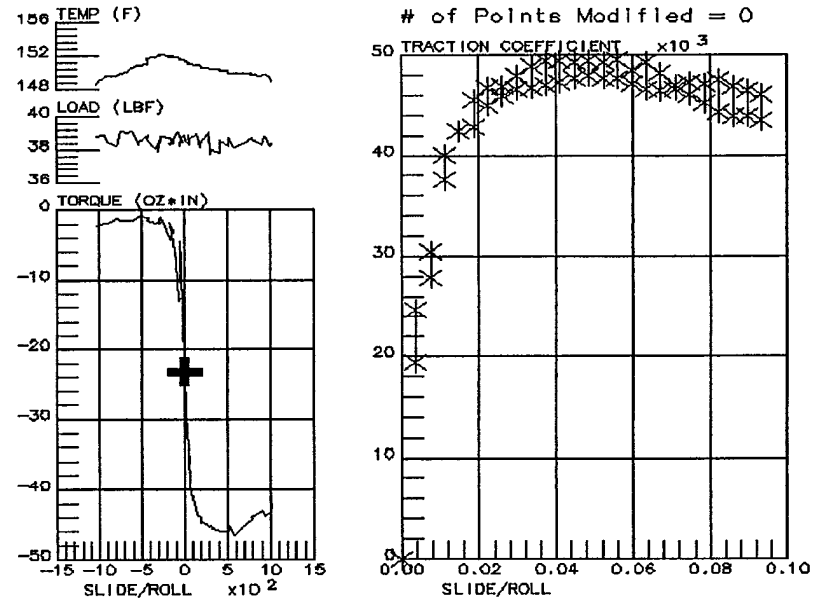
CO 90-715 ~220 Hatcol 3110 #130
150F 8LBF 10225RPM 9 FILE: co150vh



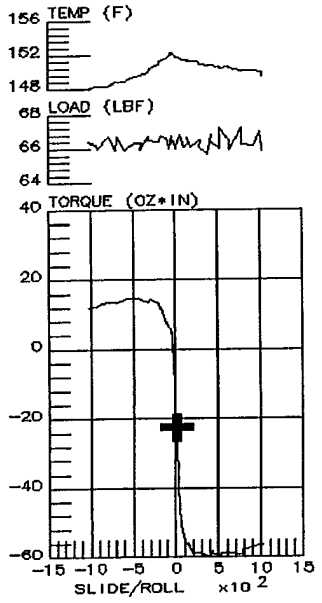
CO 90-715 ~220 Hatcol 3110 #131
150F 20LBF 10225RPM 10 FILE: co150vh



CO 90-715 ~220 Hatcol 3110 #132
150F 38LBF 10225RPM 11 FILE: co150vh



CO 90-715 ~220 Hatcol 3110 #133
150F 66LBF 10225RPM 12 FILE: co150vh



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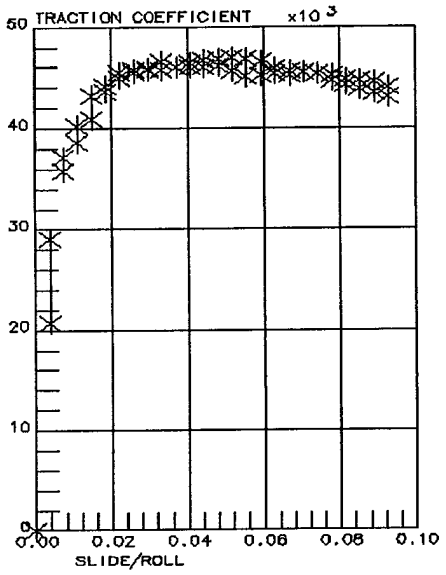
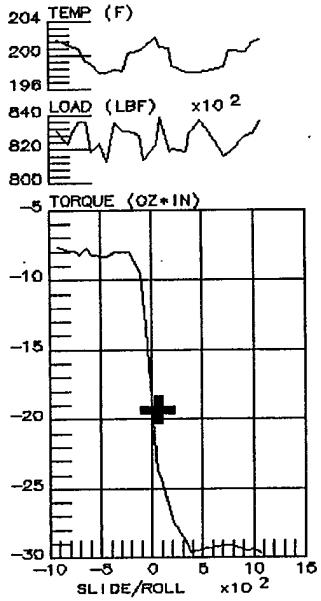


CO 90-715 ~220 Hatcol 3110 #134
200F 8LBF 306RPM 1 FILE: co20-301



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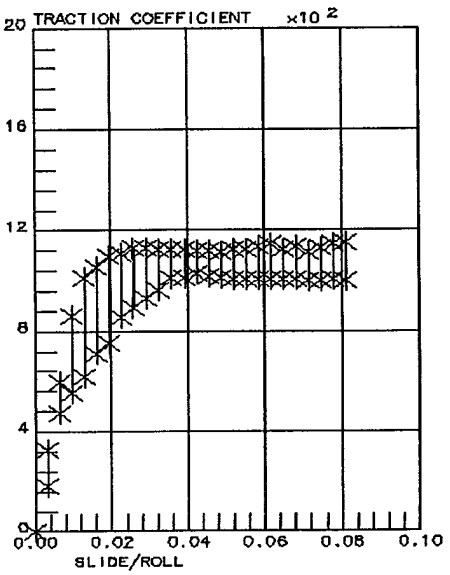
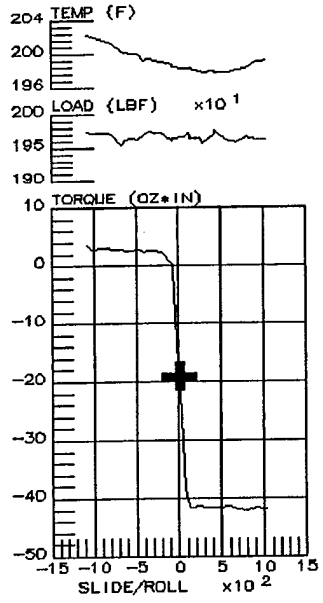


CO 90-715 ~220 Hatcol 3110 #135
200F 20LBF 306RPM 2 FILE: co20-301



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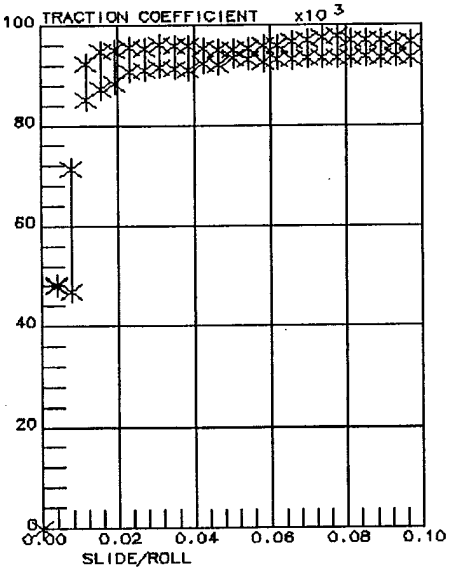
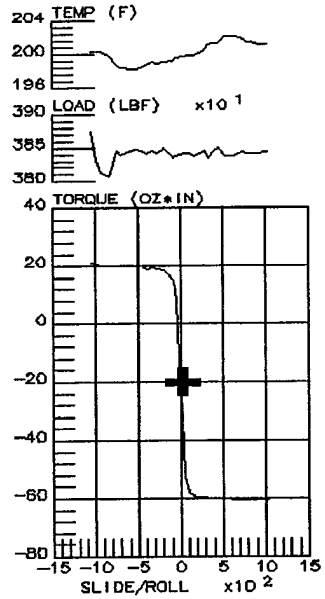


CO 90-715 ~220 Hatcol 3110 #136
200F 38LBF 306RPM 3 FILE: co20-301



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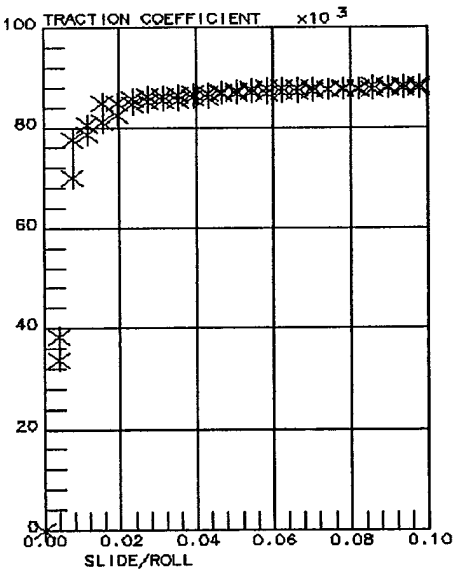
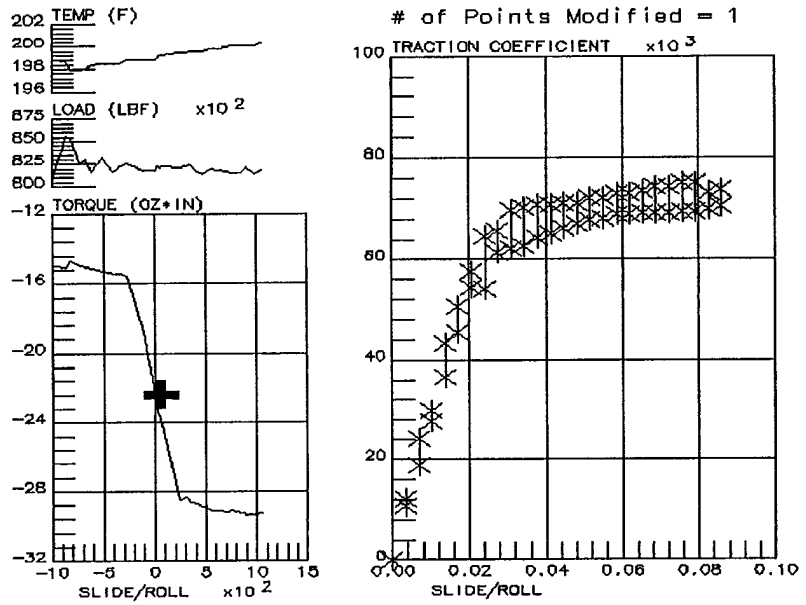
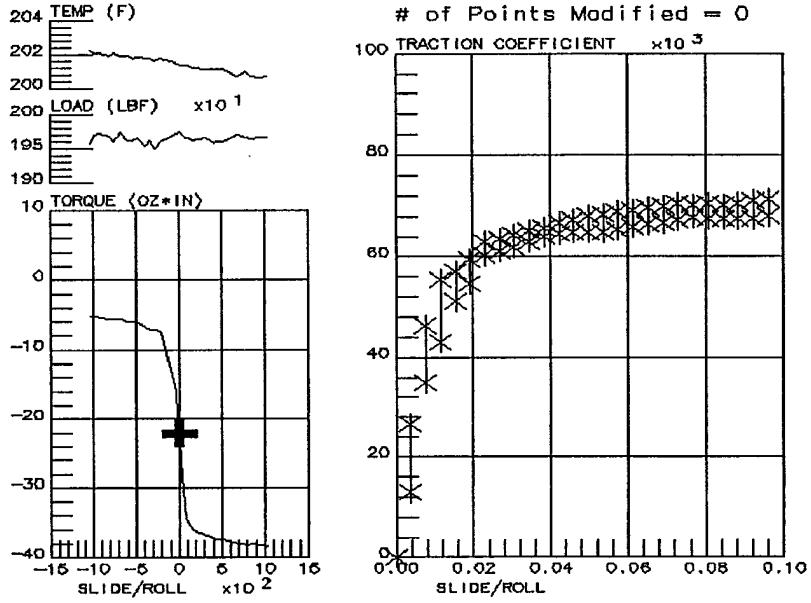


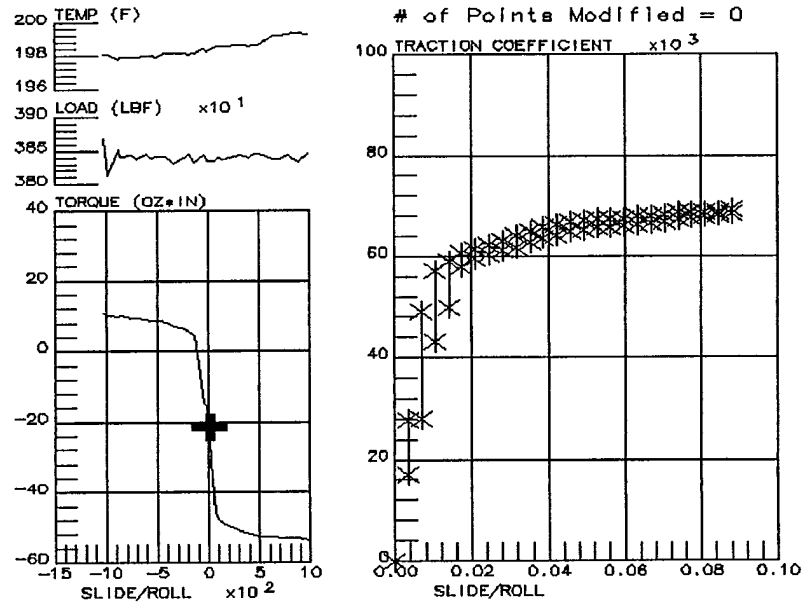
CO 90-715 ~220 Hatcol 3110 #137
200F 8LBF 651RPM 4 FILE: co20-301



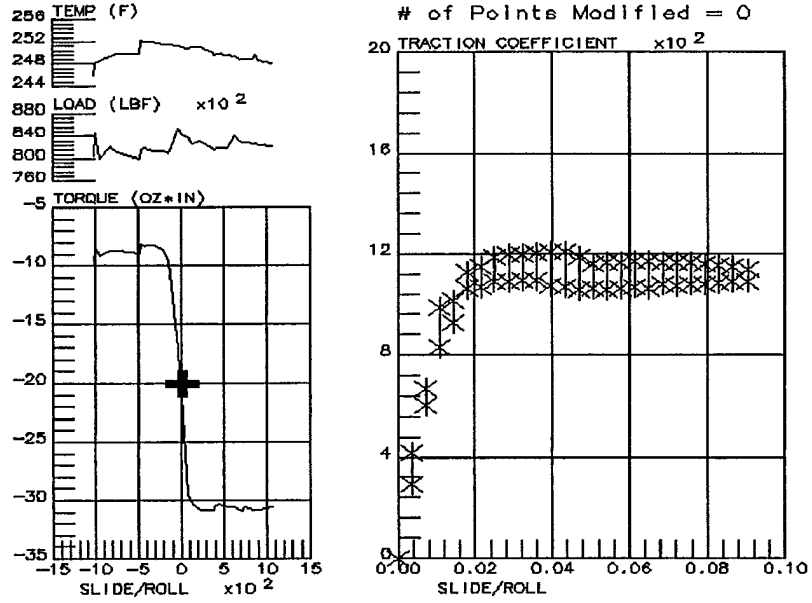
CO 90-715 ~220 Hatcol 3110 #138
200F 20LBF 651RPM 5 FILE: co20-301



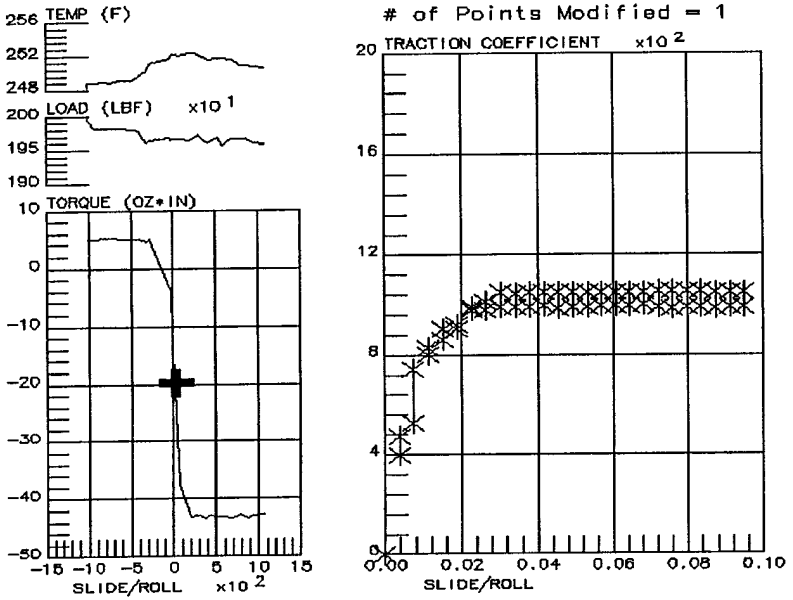
CO 90-715 ~220 Hatcol 3110 #139
200F 38LBF 651RPM 6 FILE: co20-301



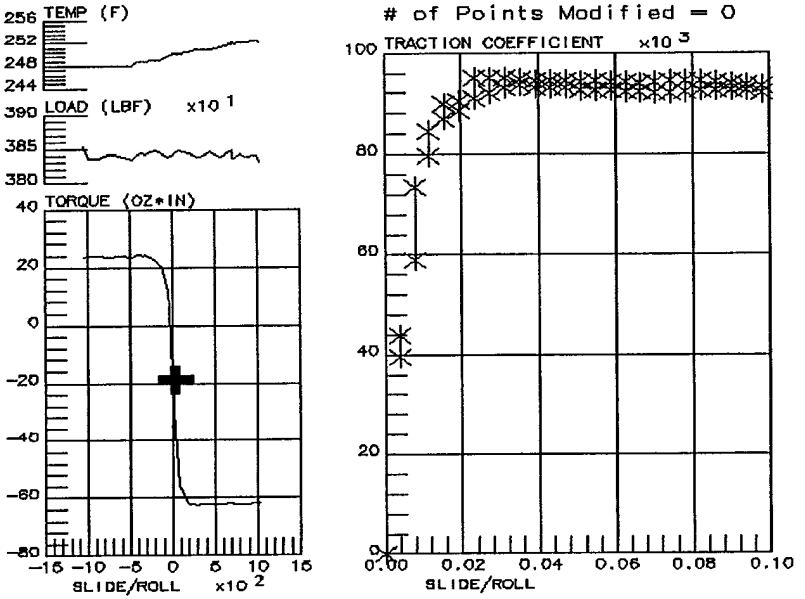
CO 90-715 ~220 Hatcol 3110 #140
250F 8LBF 306RPM 7 FILE: co20-301



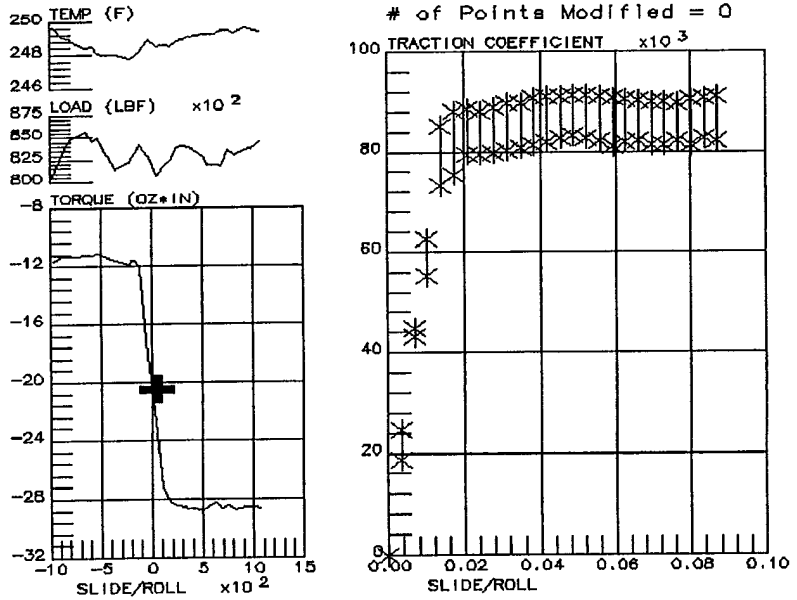
CO 90-715 ~220 Hatcol 3110 #141
250F 20LBF 306RPM 8 FILE: co20-301



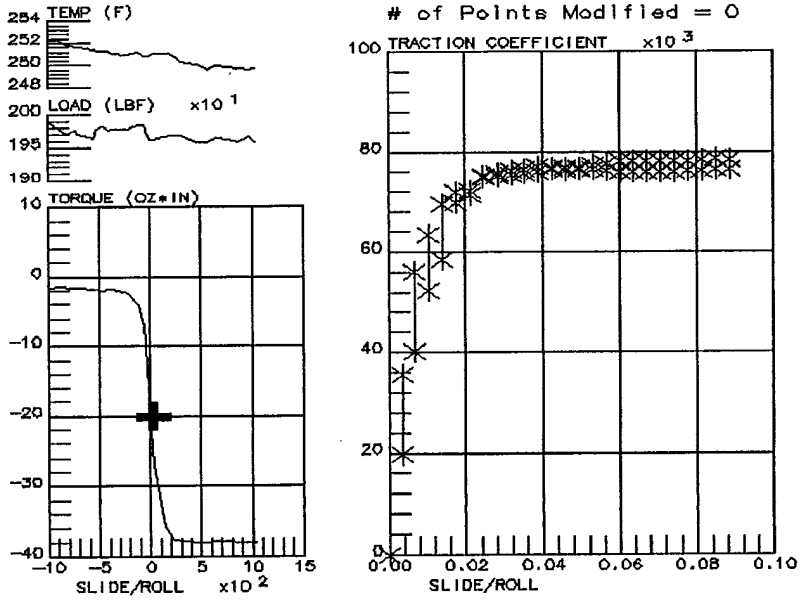
CO 90-715 ~220 Hatcol 3110 #142
250F 38LBF 306RPM 9 FILE: co20-301



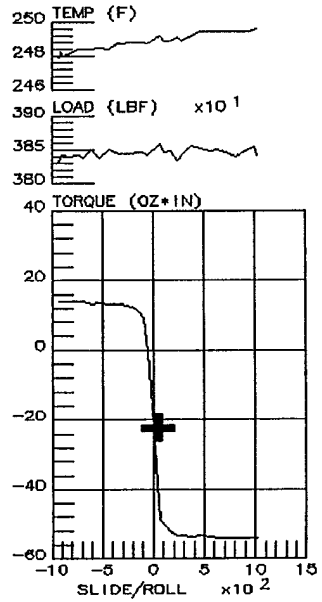
CO 90-715 ~220 Hatcol 3110 #143
250F 8LBF 651RPM 10 FILE: co20-301



CO 90-715 ~220 Hatcol 3110 #144
250F 20LBF 651RPM 11 FILE: co20-301



CO 90-715 ~220 Hatcol 3110 #145
250F 38LBF 651RPM 12 FILE: co20-301



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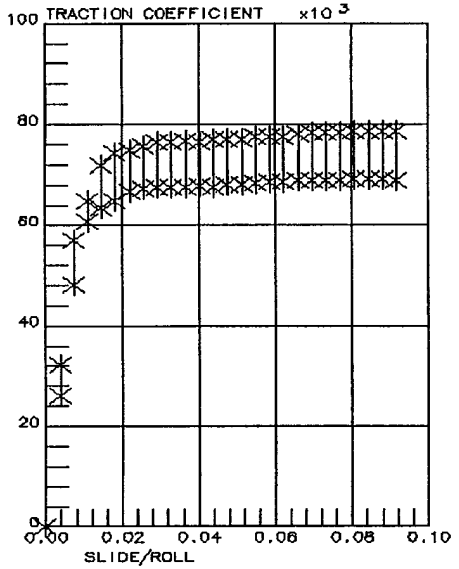
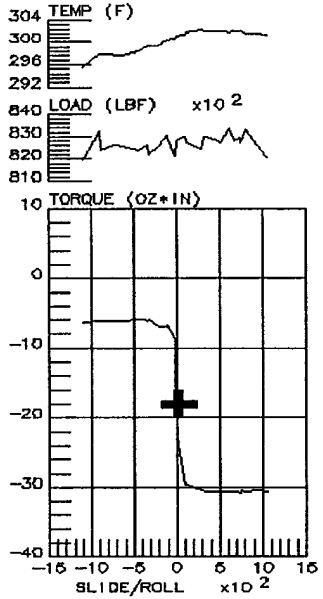


CO 90-715 ~220 Hatcol 3110 #146
300F 8LBF 306RPM 13 FILE: co20-301



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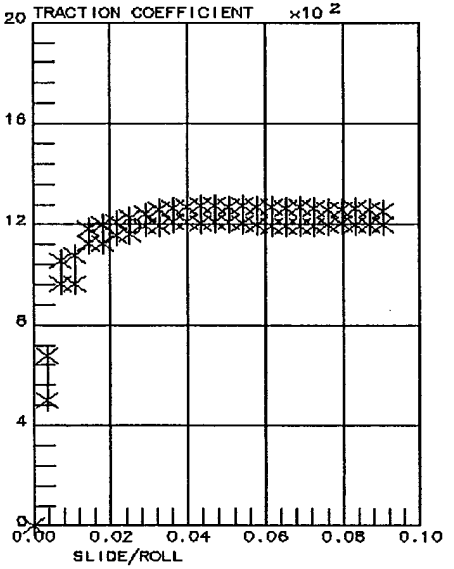
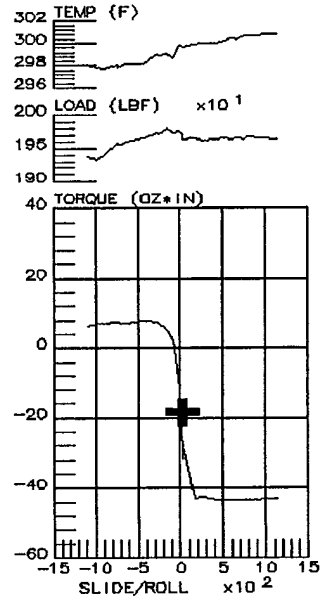


CO 90-715 ~220 Hatcol 3110 #147
300F 20LBF 306RPM 14 FILE: co20-301



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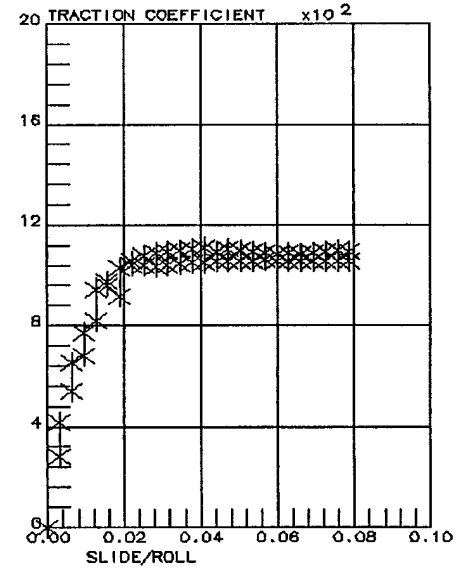
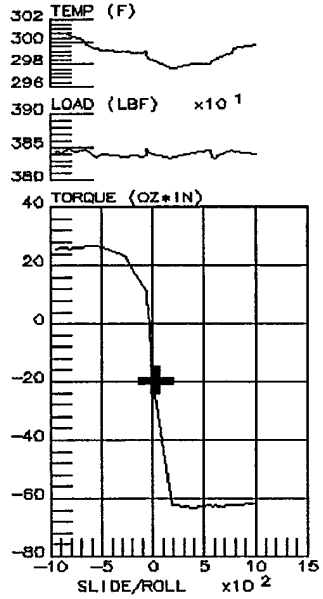
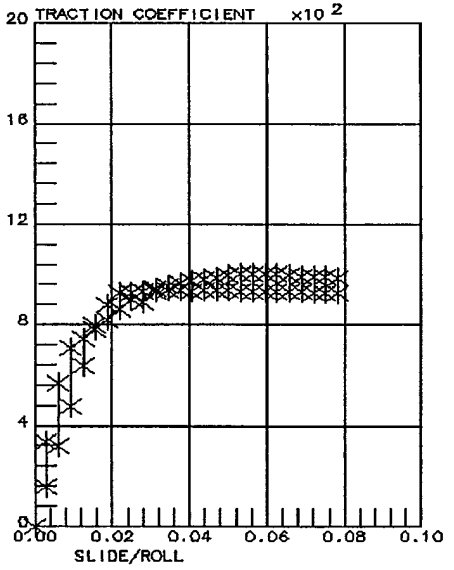


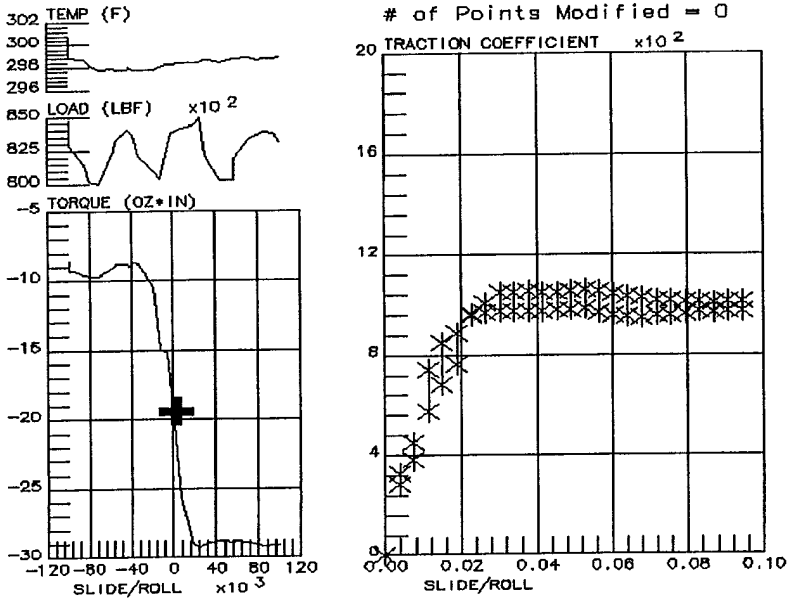
CO 90-715 ~220 Hatcol 3110 #148
300F 38LBF 306RPM 15 FILE: co20-301



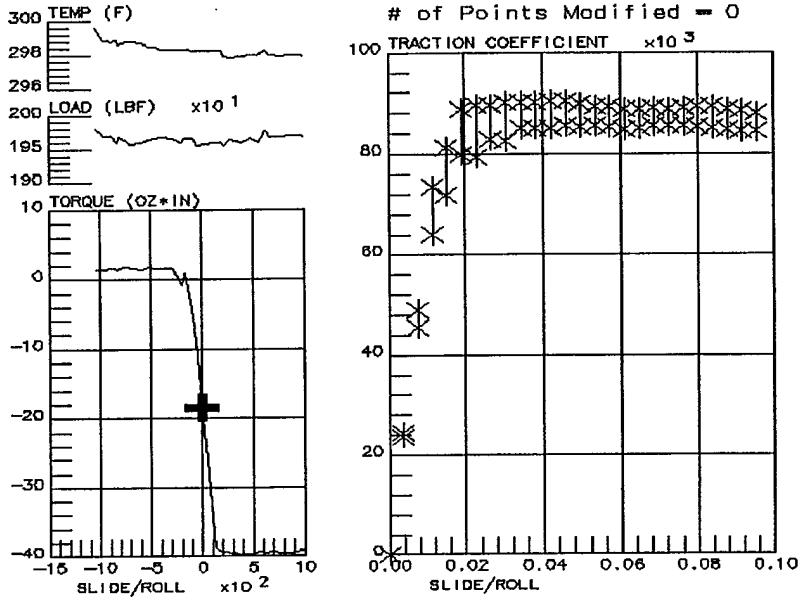
# of Points Modified = 0



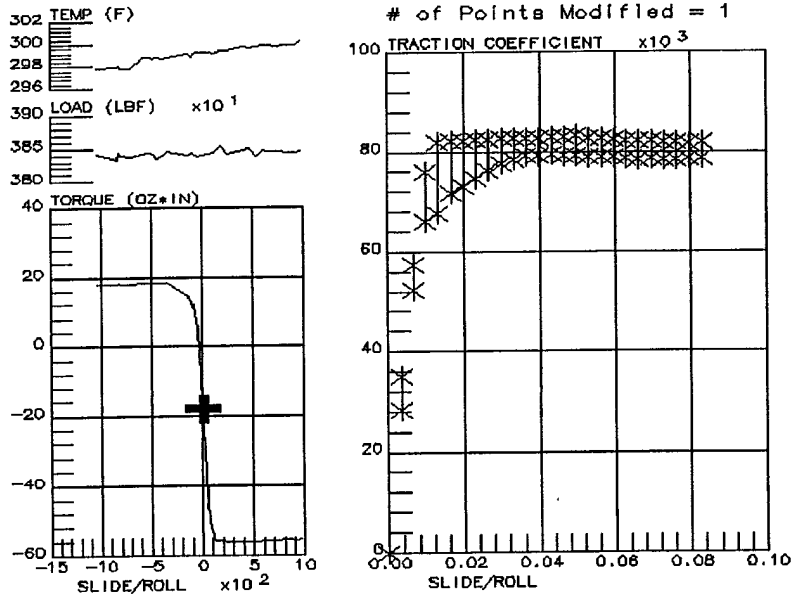
CO 90-715 ~220 Hatcol 3110 #149
300F 8LBF 651RPM 16 FILE: co20-301



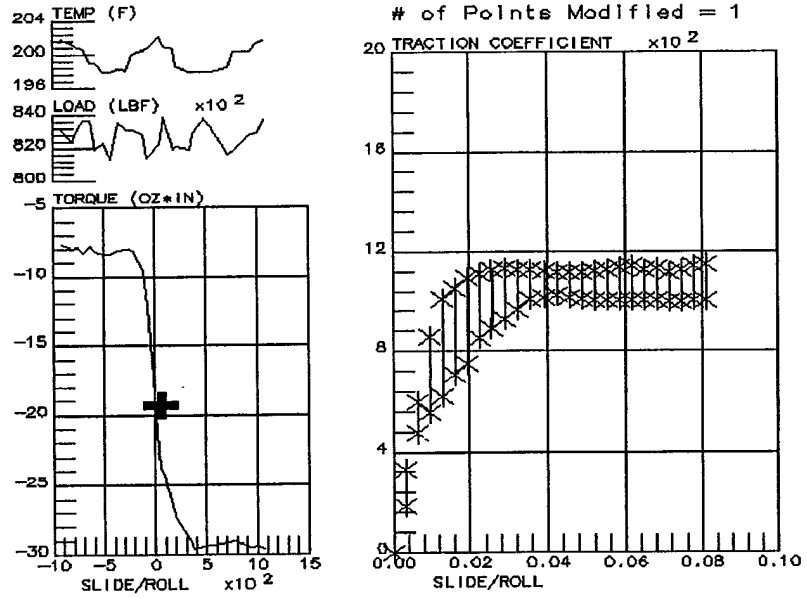
CO 90-715 ~220 Hatcol 3110 #150
300F 20LBF 651RPM 17 FILE: co20-301



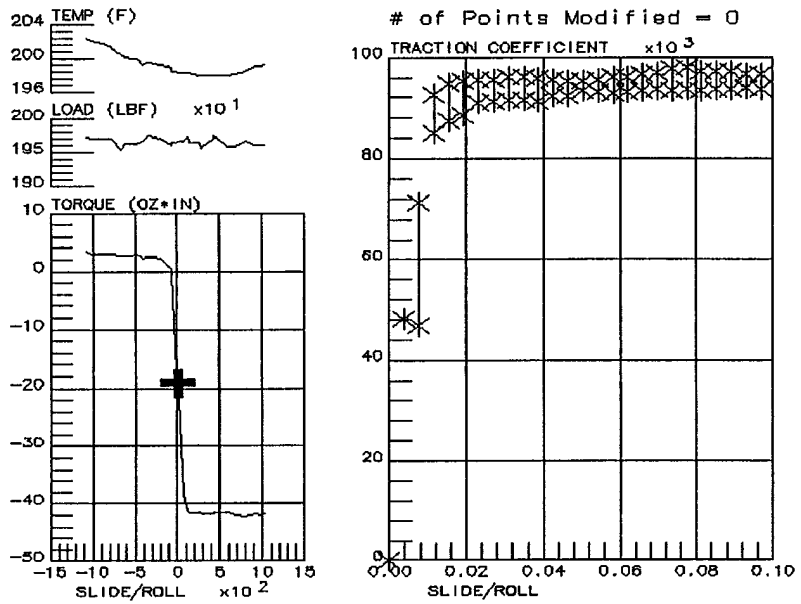
CO 90-715 ~220 Hatcol 3110 #151
300F 38LBF 651RPM 18 FILE: co20-301



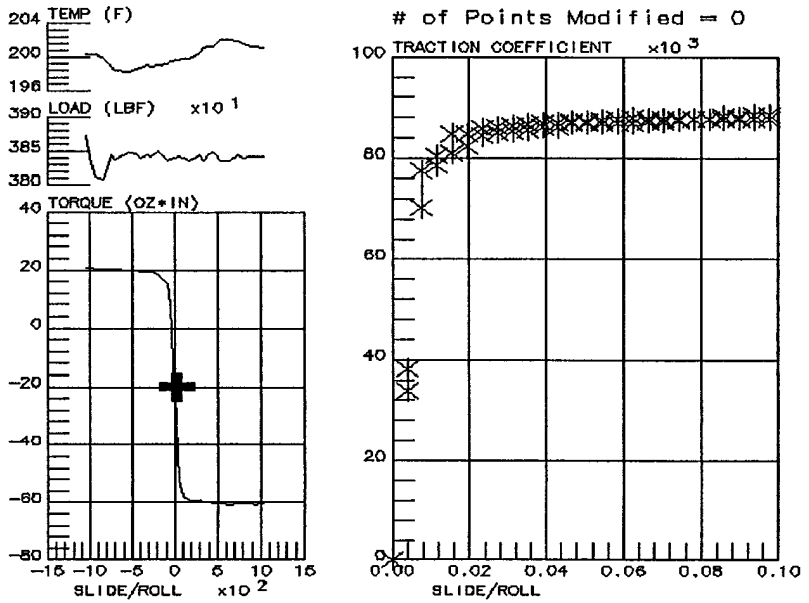
CO 90-715 ~220 Hatcol 3110 #152
200F 8LBF 306RPM 1 FILE: co20-30m



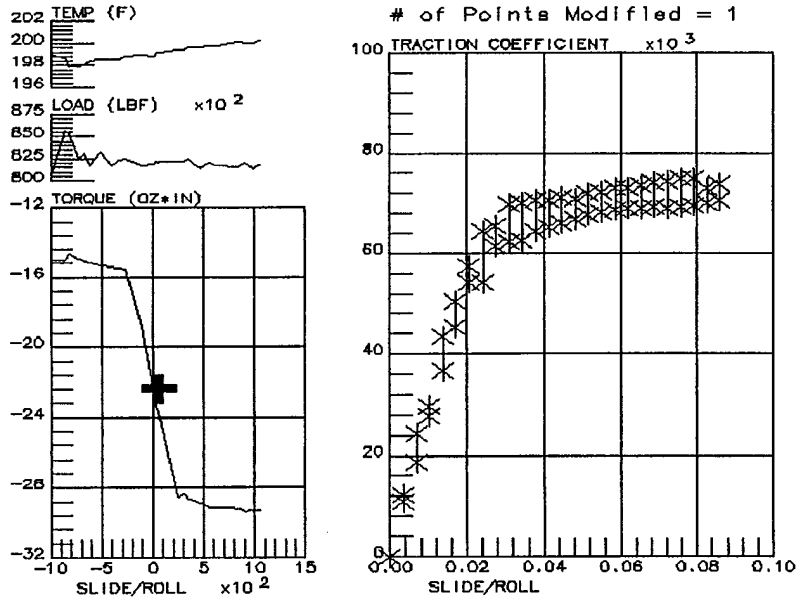
CO 90-715 ~220 Hatcol 3110 #153
200F 20LBF 306RPM 2 FILE: co20-30m



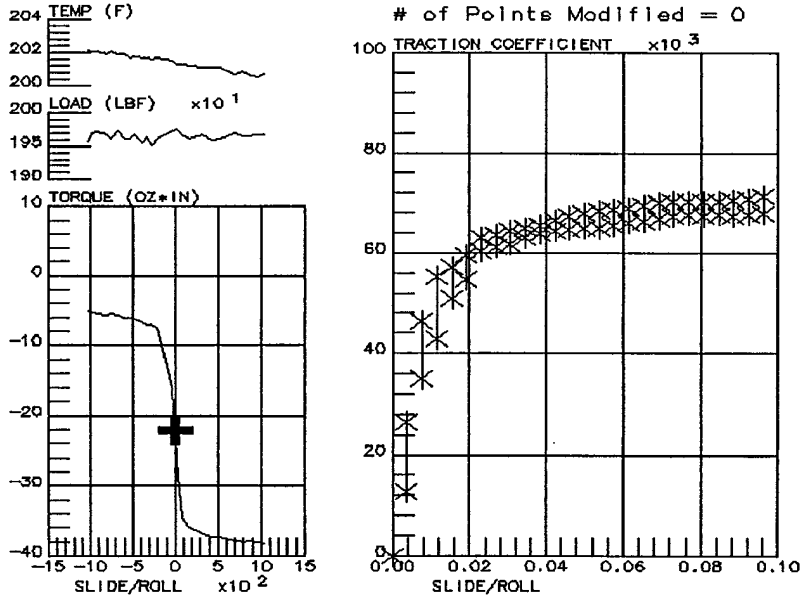
CO 90-715 ~220 Hatcol 3110 #154
200F 38LBF 306RPM 3 FILE: co20-30m



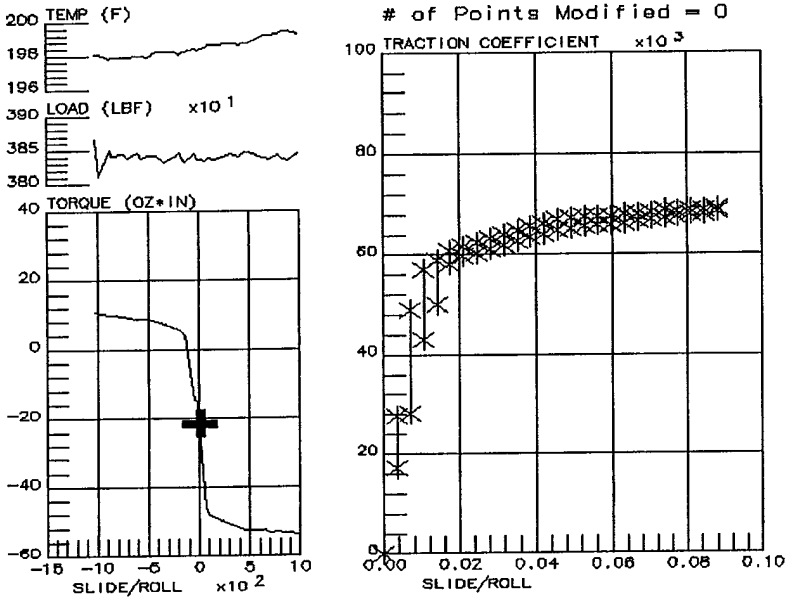
CO 90-715 ~220 Hatcol 3110 #155
200F 8LBF 651RPM 4 FILE: co20-30m



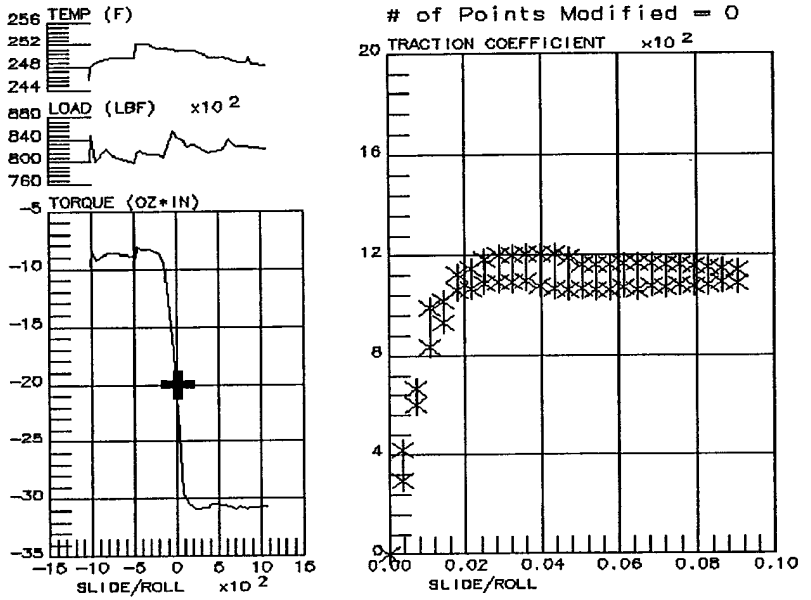
CO 90-715 ~220 Hatcol 3110 #156
200F 20LBF 651RPM 5 FILE: co20-30m



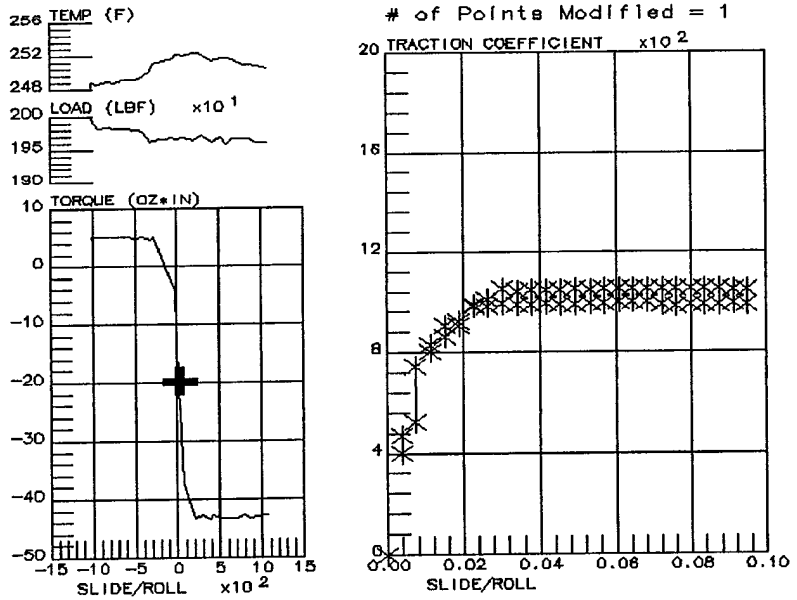
CO 90-715 ~220 Hatcol 3110 #157
200F 38LBF 651RPM 6 FILE: co20-30m



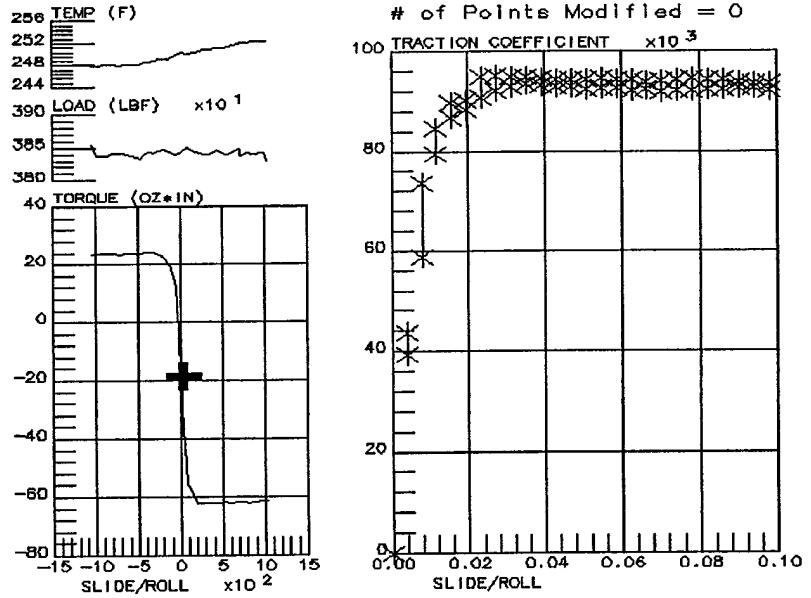
CO 90-715 ~220 Hatcol 3110 #158
250F 8LBF 306RPM 7 FILE: co20-30m



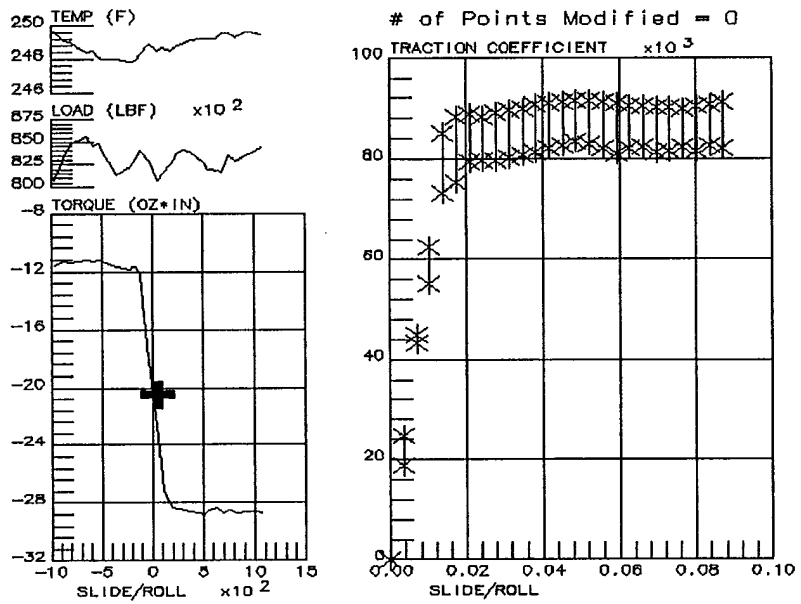
CO 90-715 ~220 Hatcol 3110 #159
250F 20LBF 306RPM 8 FILE: co20-30m



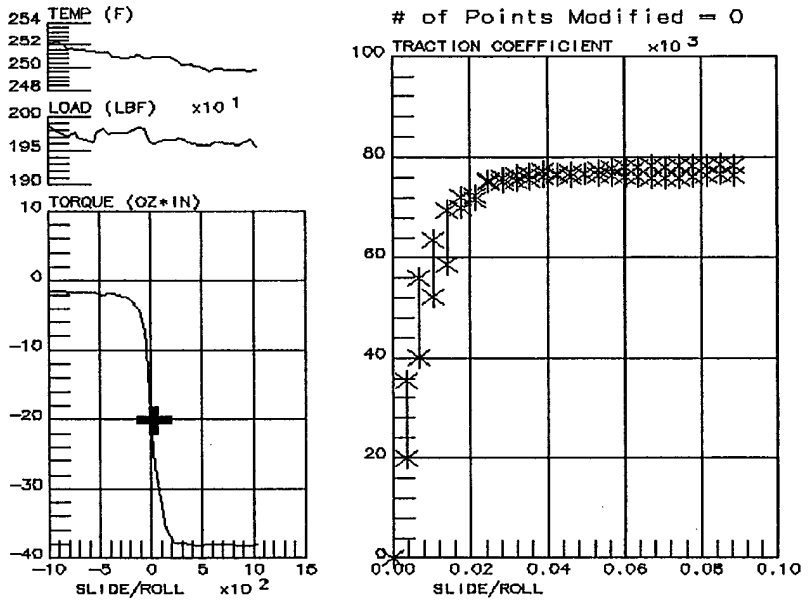
CO 90-715 ~220 Hatcol 3110 #160
250F 38LBF 306RPM 9 FILE: co20-30m



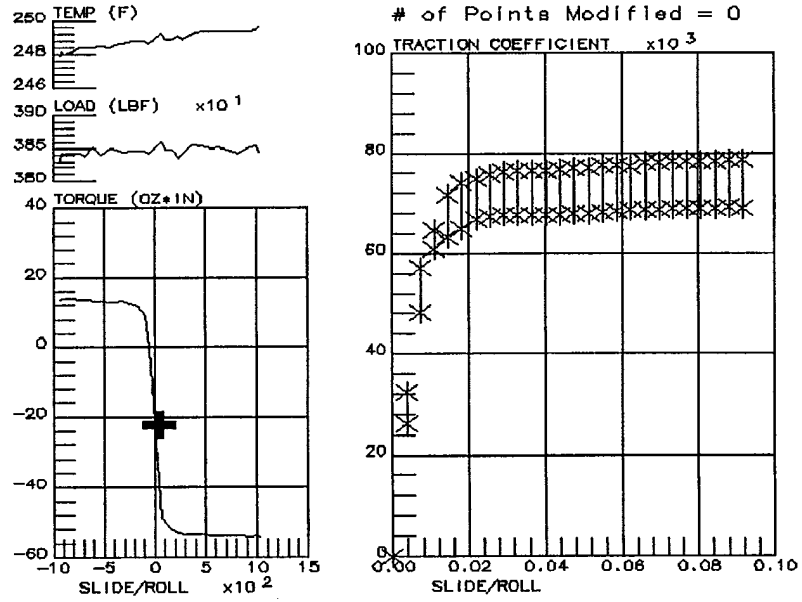
CO 90-715 ~220 Hatcol 3110 #161
250F 8LBF 651RPM 10 FILE: co20-30m



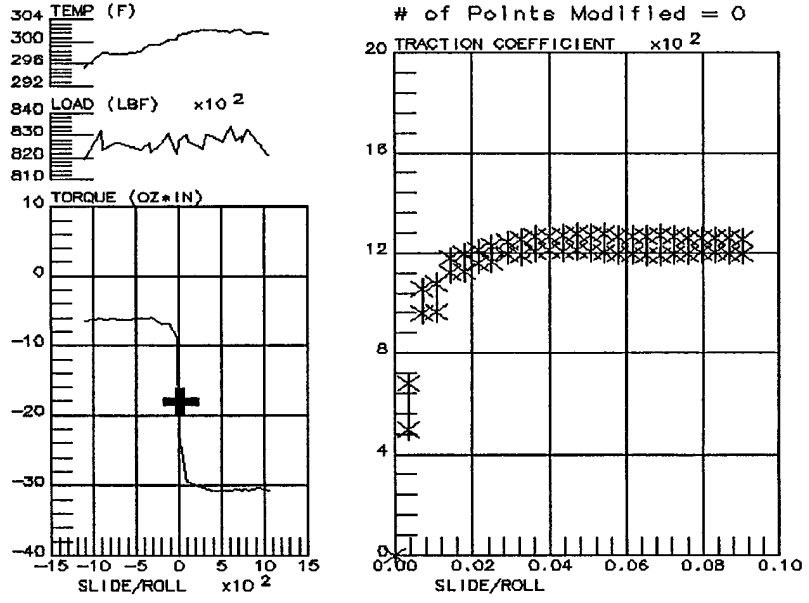
CO 90-715 ~220 Hatcol 3110 #162
250F 20LBF 651RPM 11 FILE: co20-30m



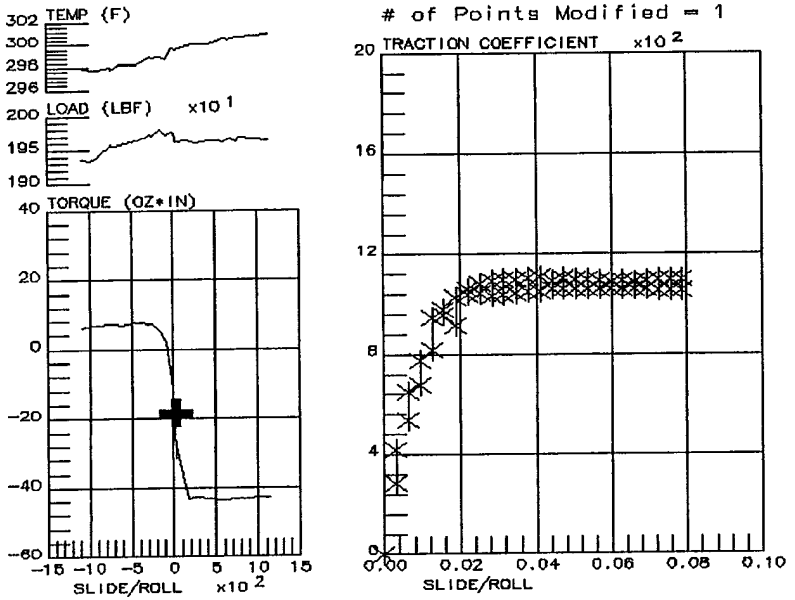
CO 90-715 ~220 Hatcol 3110 #163
250F 38LBF 651RPM 12 FILE: co20-30m



CO 90-715 ~220 Hatcol 3110 #164
300F 8LBF 306RPM 13 FILE: co20-30m



CO 90-715 ~220 Hatcol 3110 #165
300F 20LBF 306RPM 14 FILE: co20-30m



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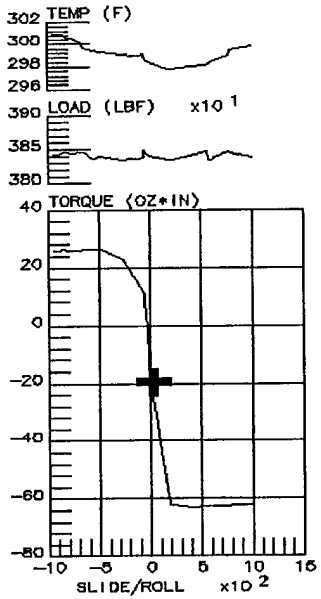
CO 90-715 ~220 Hatcol 3110 #166
300F 38LBF 306RPM 15 FILE: co20-30m



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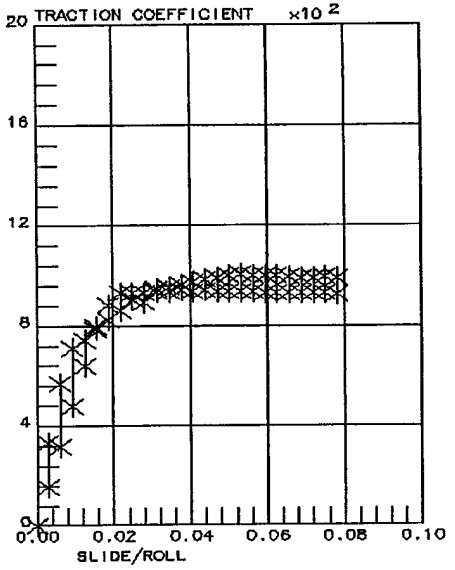
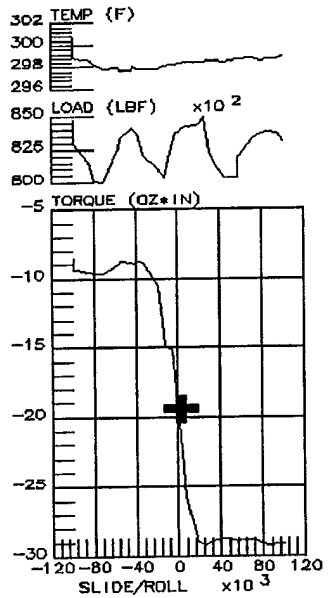


CO 90-715 ~220 Hatcol 3110 #167
300F 8LBF 651RPM 16 FILE: co20-30m



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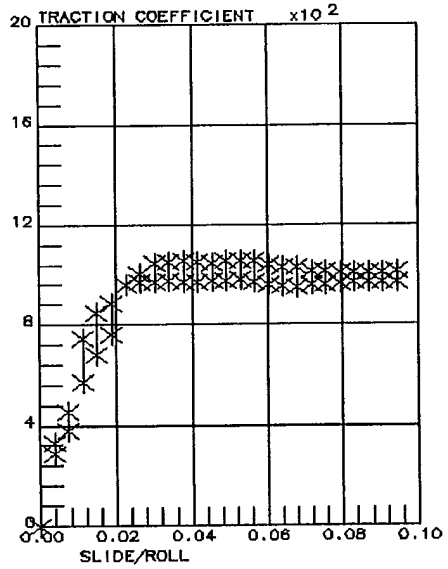
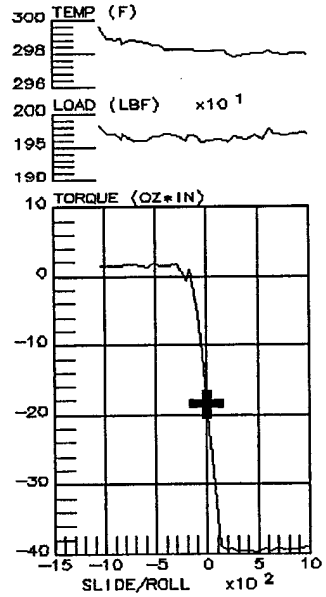


CO 90-715 ~220 Hatcol 3110 #168
300F 20LBF 651RPM 17 FILE: co20-30m



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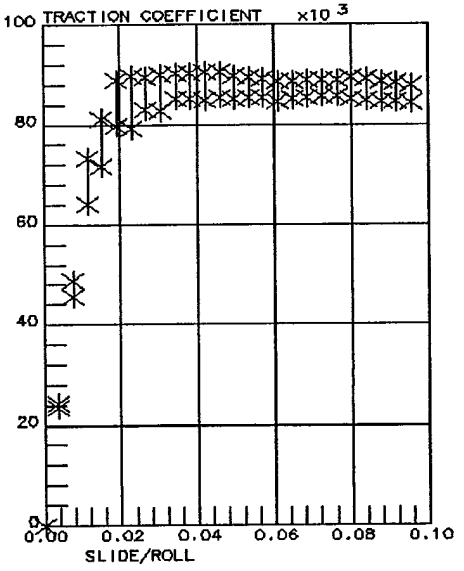
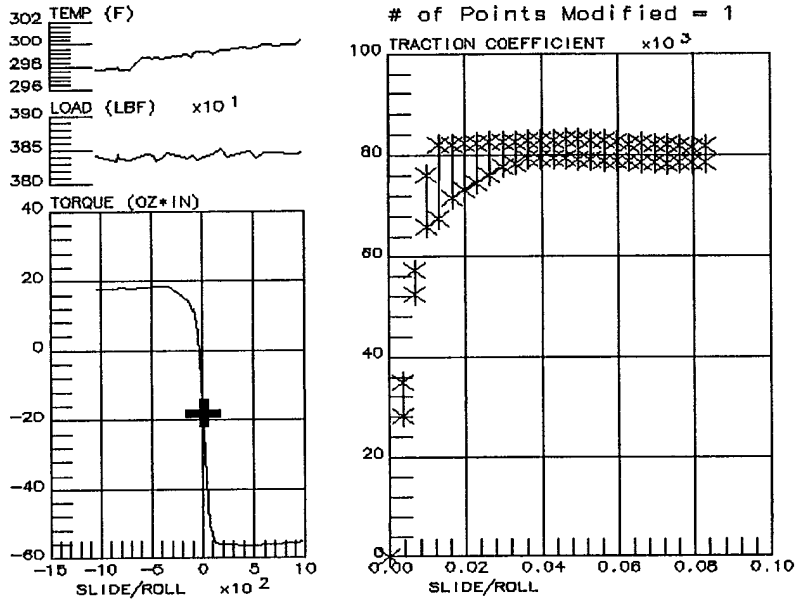
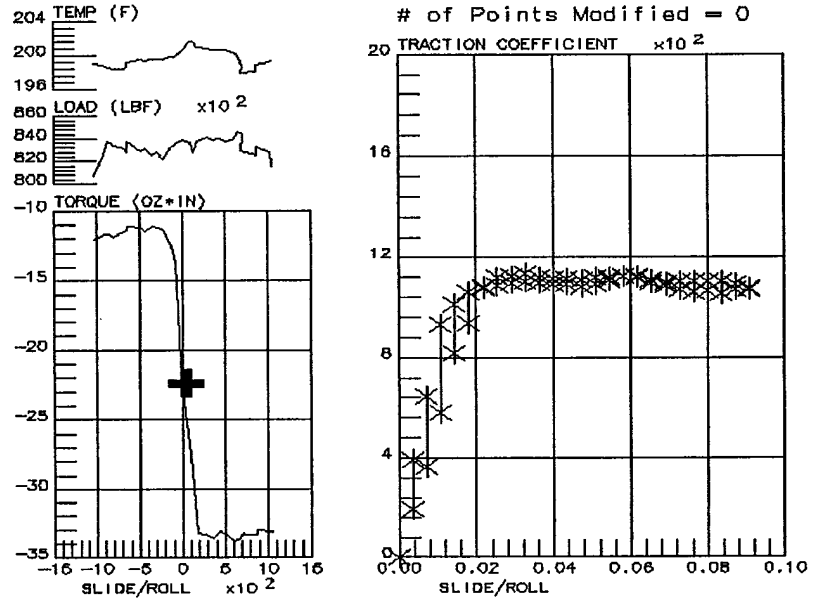


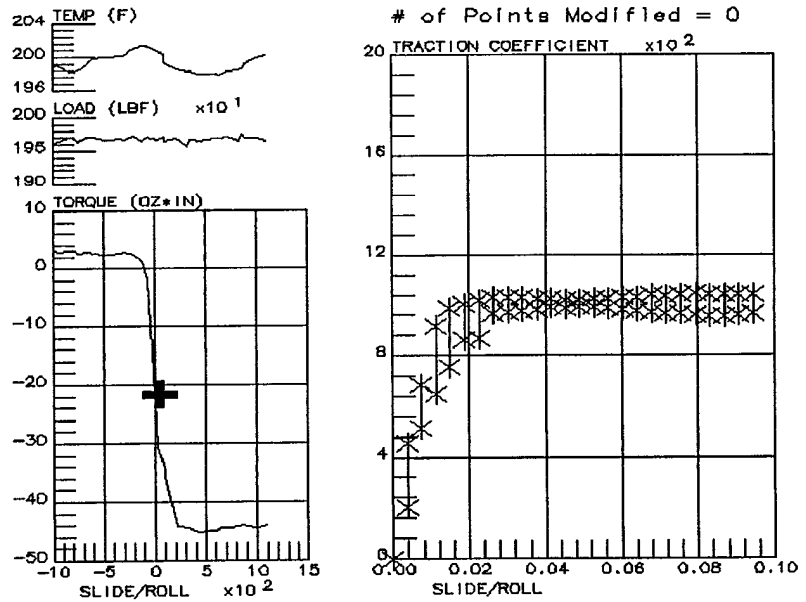
CO 90-715 ~220 Hatcol 3110 #169
300F 38LBF 651RPM 18 FILE: co20-30m



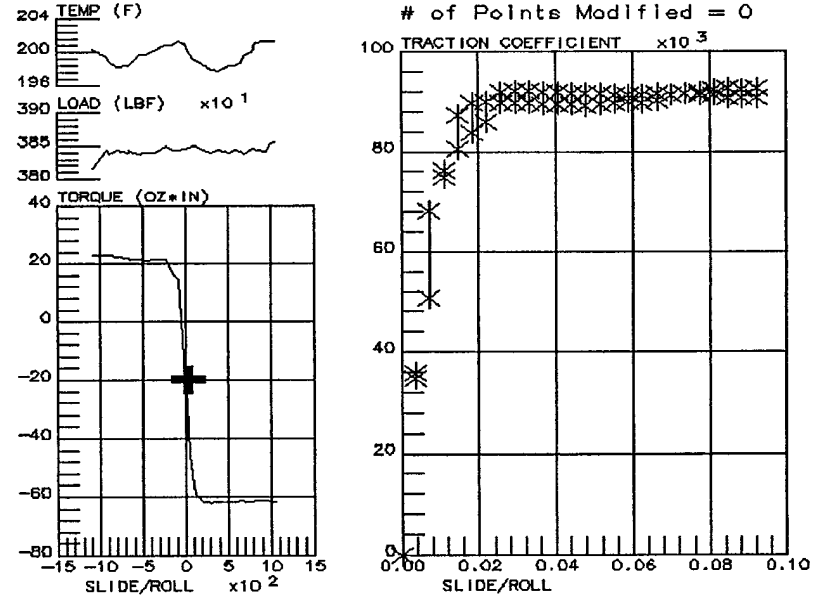
CO 90-715 ~220 Hatcol 3110 #170
200F 8LBF 306RPM 1 FILE: co200v1



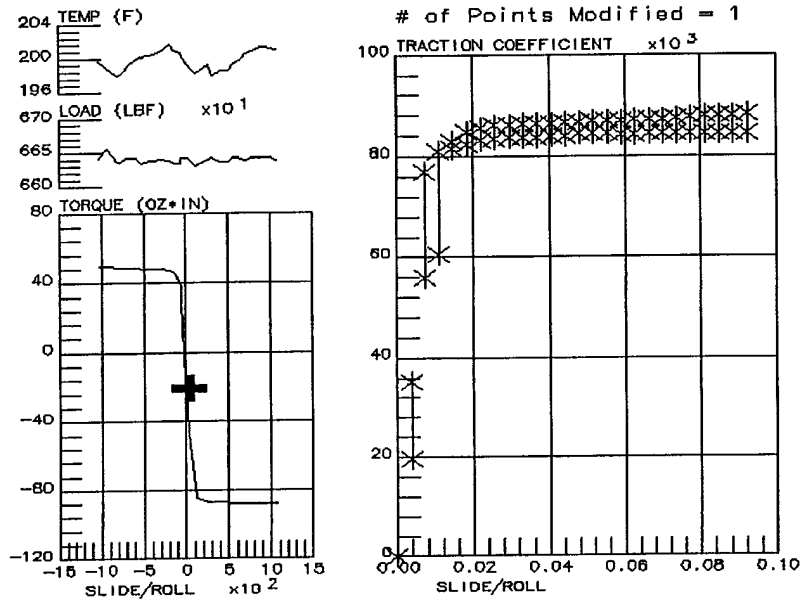
CO 90-715 ~220 Hatcol 3110 #171
200F 20LBF 306RPM 2 FILE: co200v1



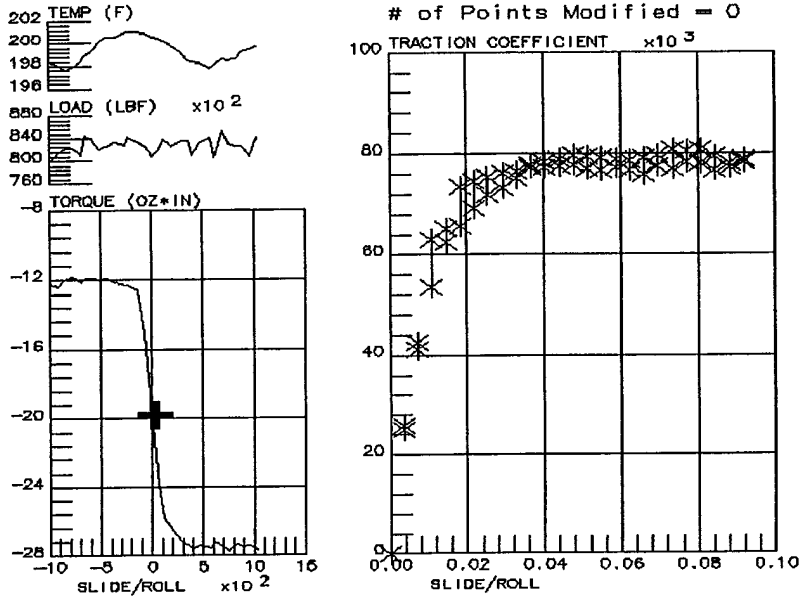
CO 90-715 ~220 Hatcol 3110 #172
200F 38LBF 306RPM 3 FILE: co200v1



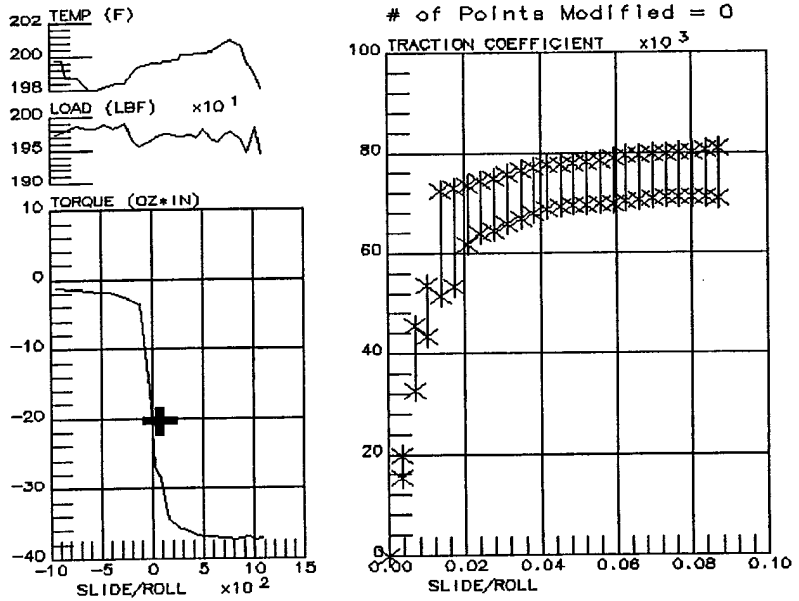
CO 90-715 ~220 Hatcol 3110 #173
200F 66LBF 306RPM 4 FILE: co200v1



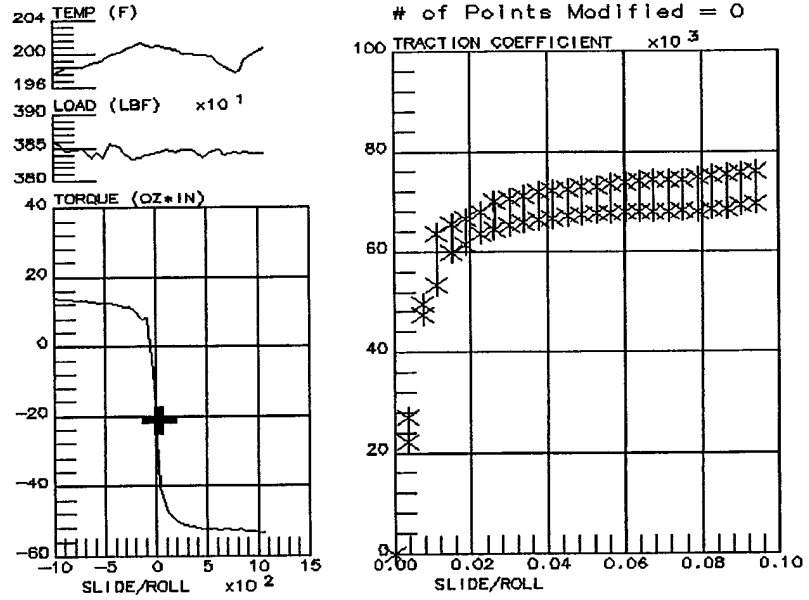
CO 90-715 ~220 Hatcol 3110 #174
200F 8LBF 651RPM 5 FILE: co200v1



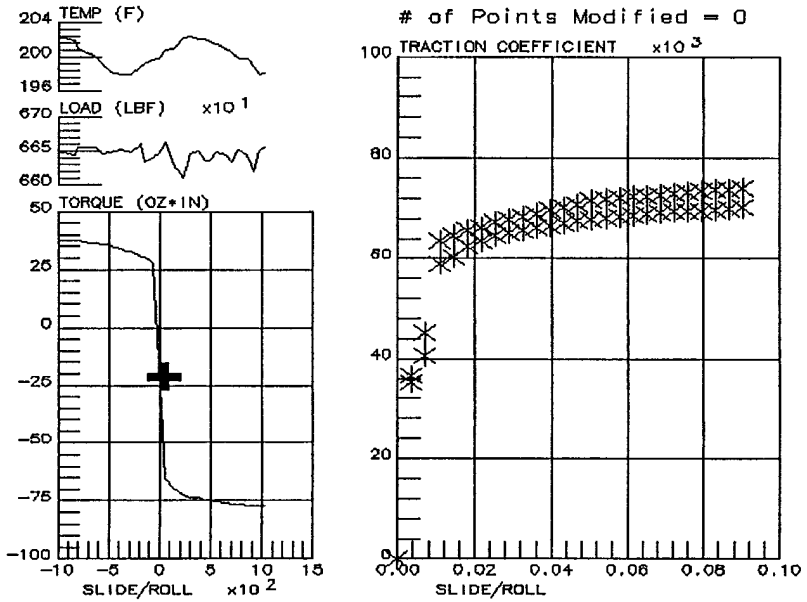
CO 90-715 ~220 Hatcol 3110 #175
200F 20LBF 651RPM 6 FILE: co200v1



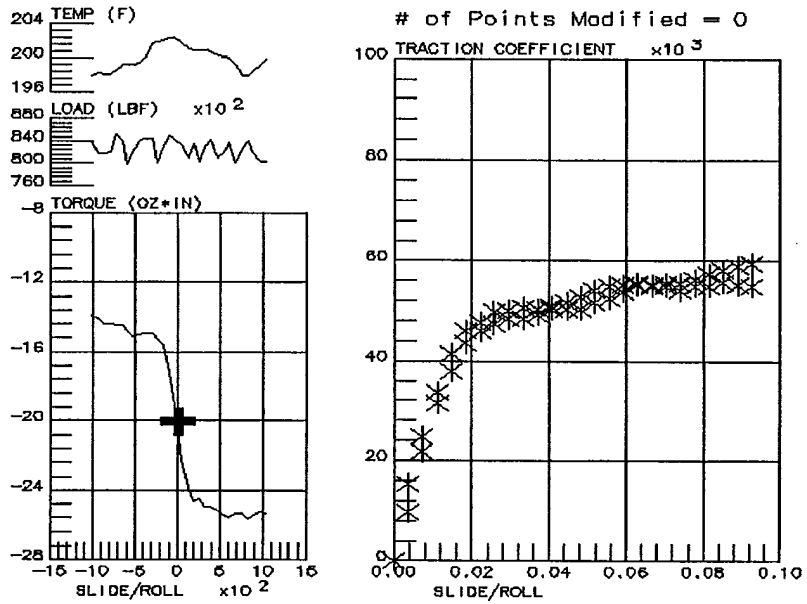
CO 90-715 ~220 Hatcol 3110 #176
200F 38LBF 651RPM 7 FILE: co200v1



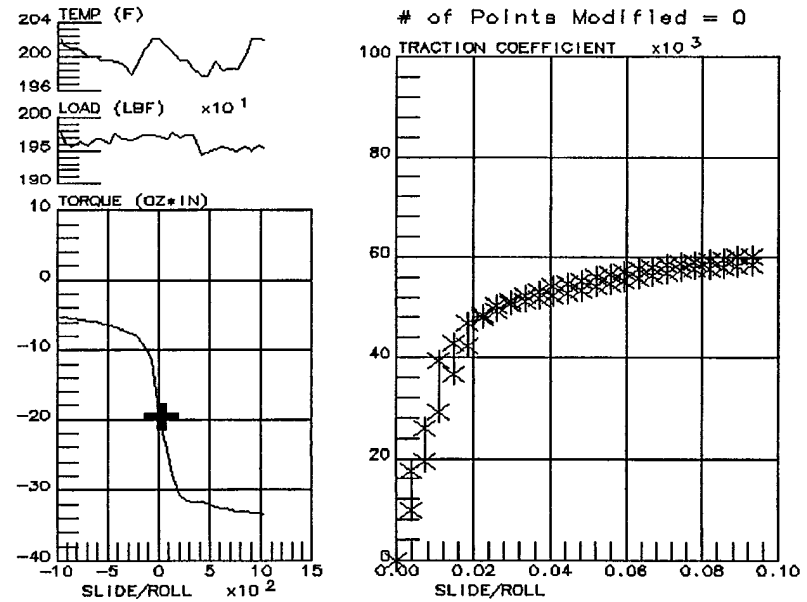
CO 90-715 ~220 Hatcol 3110 #177
200F 66LBF 651RPM 8 FILE: co200v1



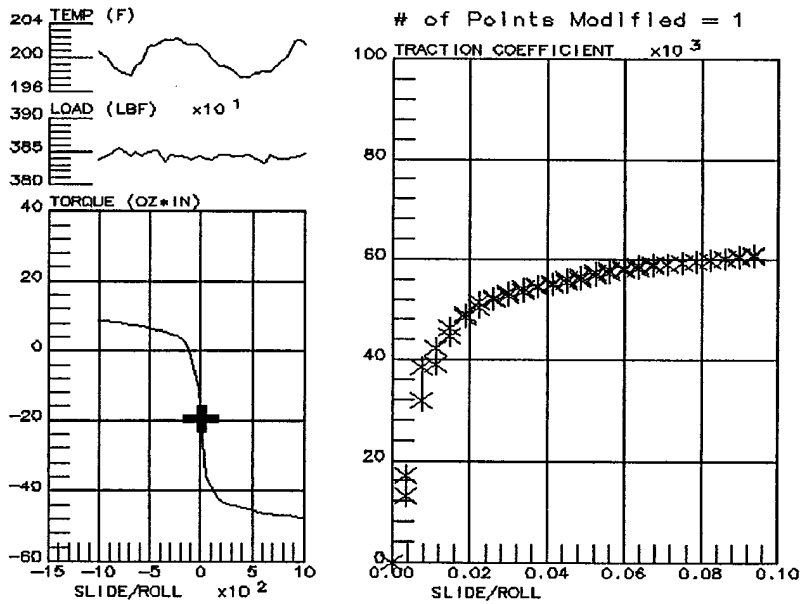
CO 90-715 ~220 Hatcol 3110 #178
200F 8LBF 1264RPM 9 FILE: co200v1



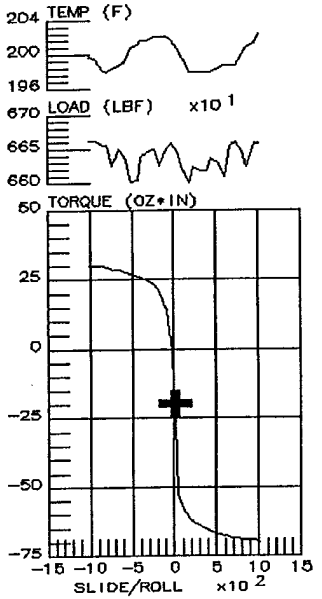
CO 90-715 ~220 Hatcol 3110 #179
200F 20LBF 1264RPM 10 FILE: co200v1



CO 90-715 ~220 Hatcol 3110 #180
200F 38LBF 1264RPM 11 FILE: co200v1



CO 90-715 ~220 Hatcol 3110 #181
200F 66LBF 1284RPM 12 FILE: co200v1



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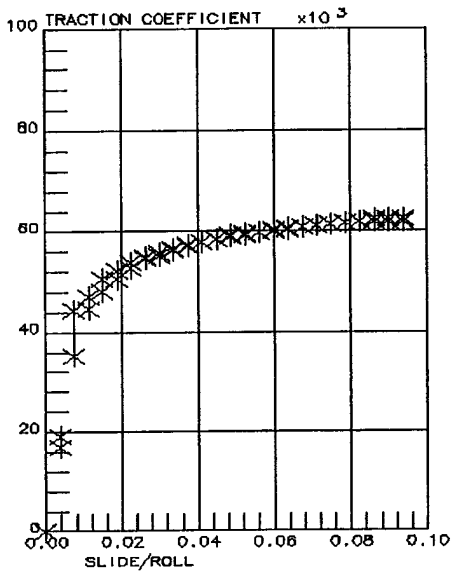
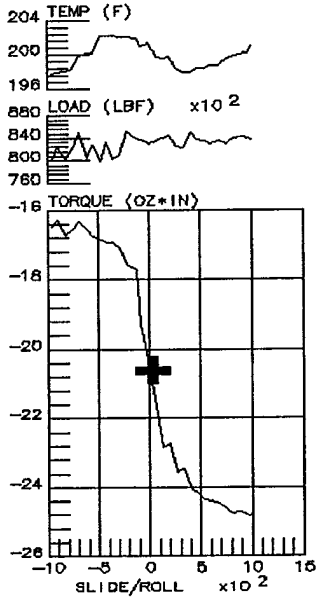


CO 90-715 ~220 Hatcol 3110 #182
200F 8LBF 2563RPM 13 FILE: co200v1



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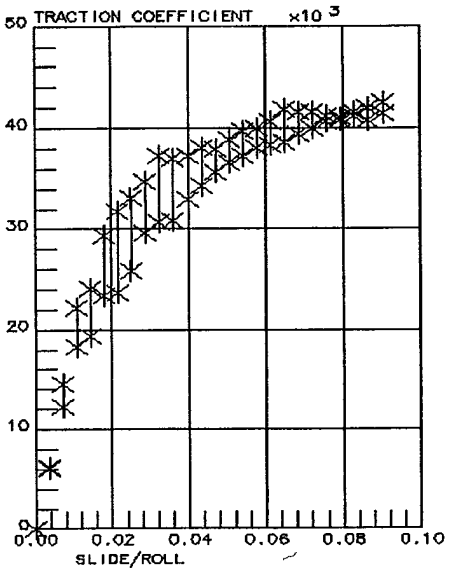
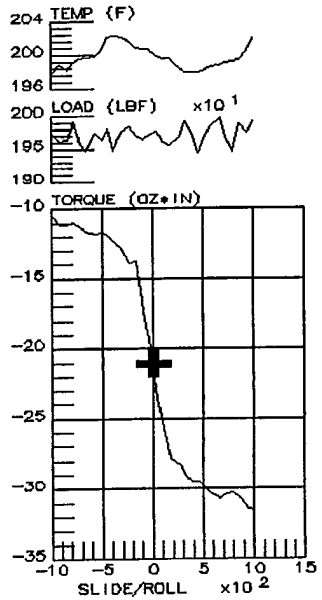


CO 90-715 ~220 Hatcol 3110 #183
200F 20LBF 2563RPM 14 FILE: co200v1



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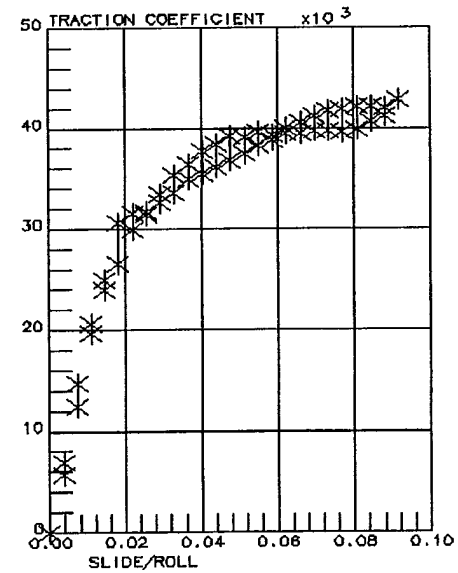
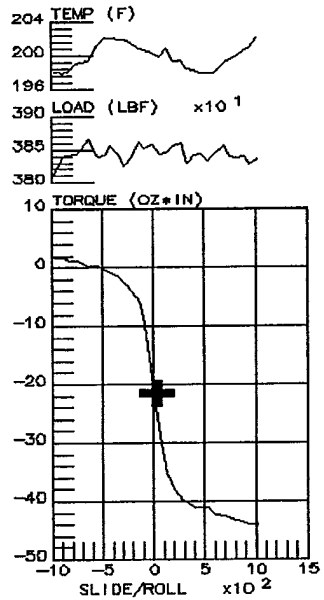


CO 90-715 ~220 Hatcol 3110 #184
200F 38LBF 2563RPM 15 FILE: co200v1



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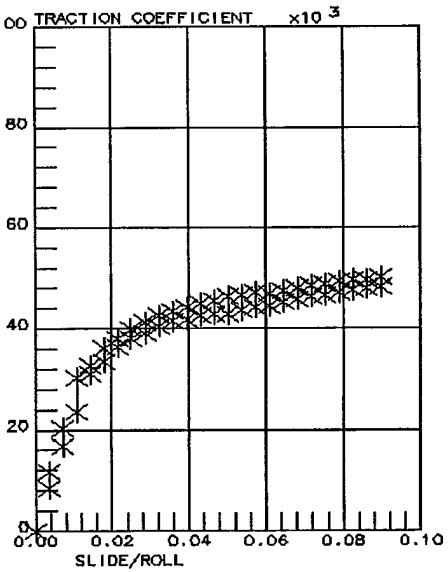
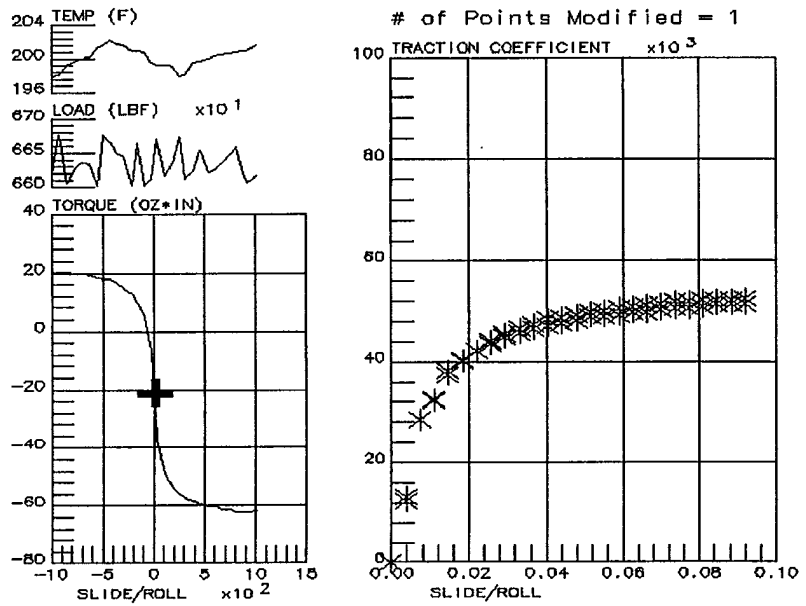
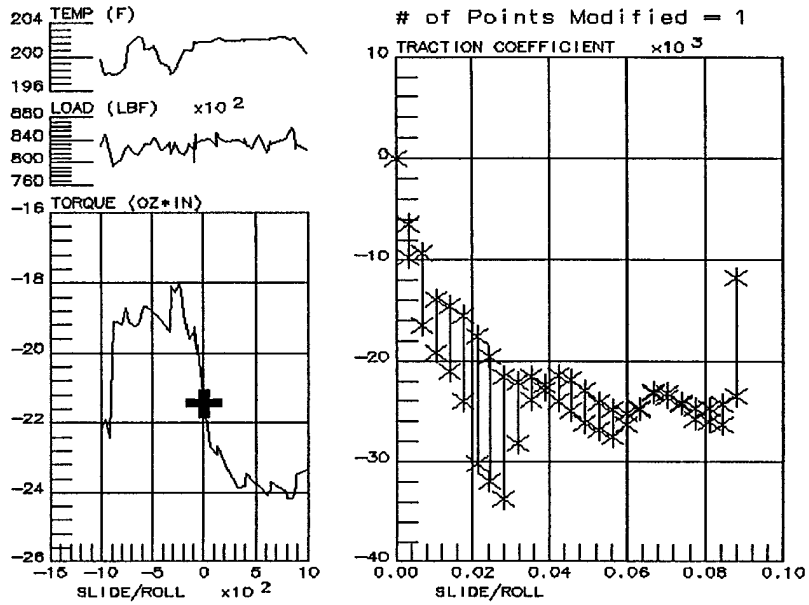


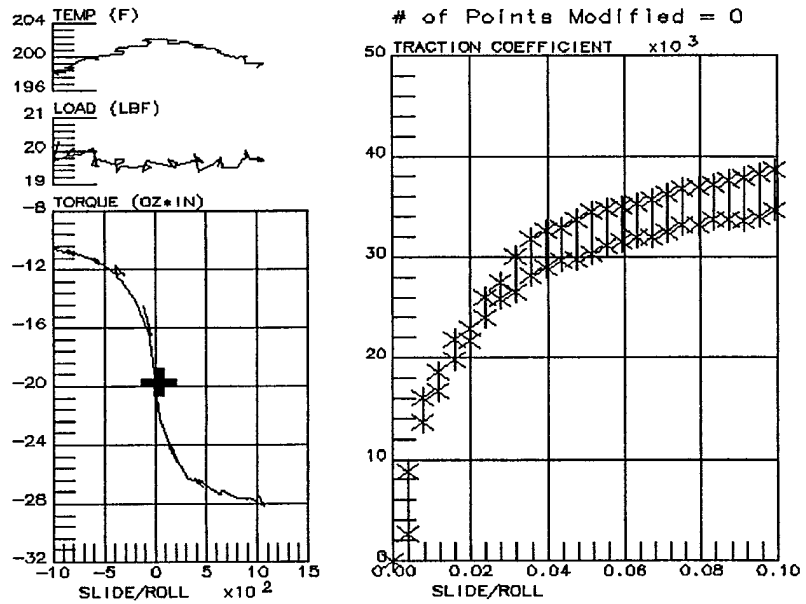
CO 90-715 ~220 Hatcol 3110 #185
200F 66LBF 2563RPM 16 FILE: co200vl



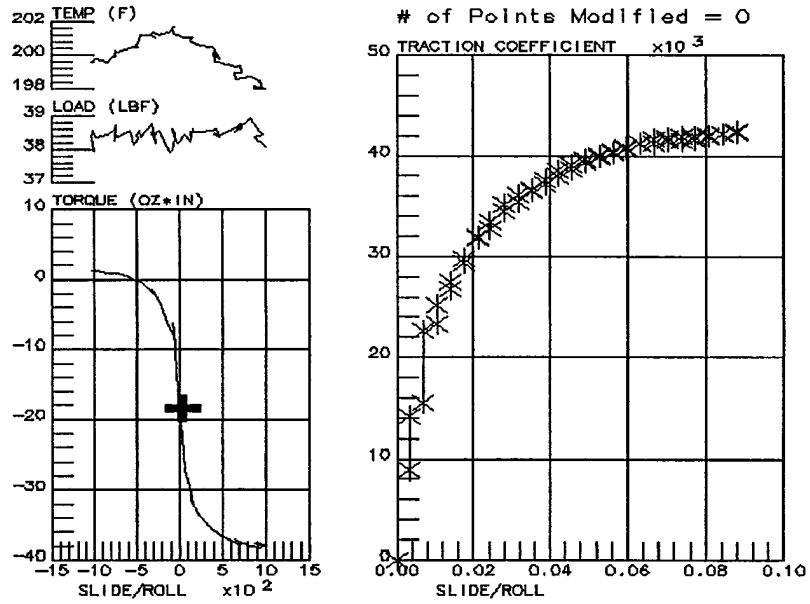
CO 90-715 ~220 Hatcol 3110 #186
200F 8LBF 5097RPM 1 FILE: co200vh



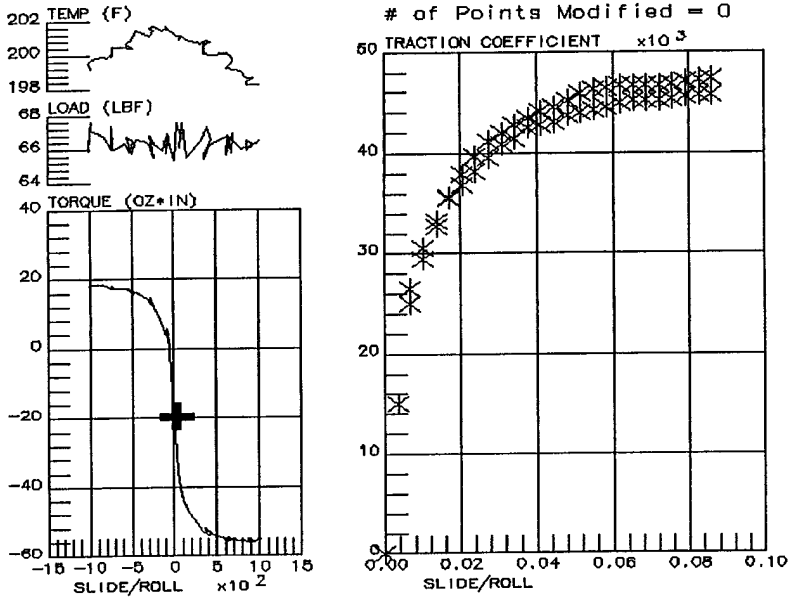
CO 90-715 ~220 Hatcol 3110 #187
200F 20LBF 5097RPM 2 FILE: co200vh



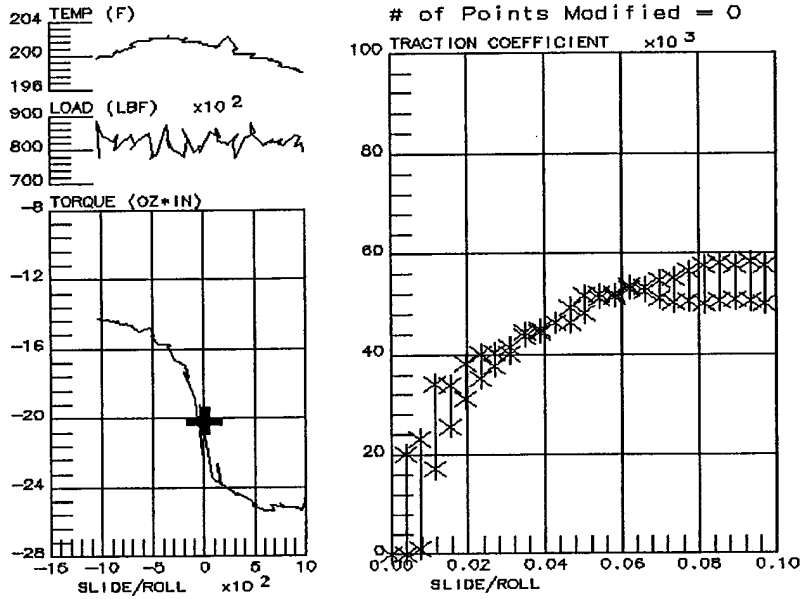
CO 90-715 ~220 Hatcol 3110 #188
200F 38LBF 5097RPM 3 FILE: co200vh



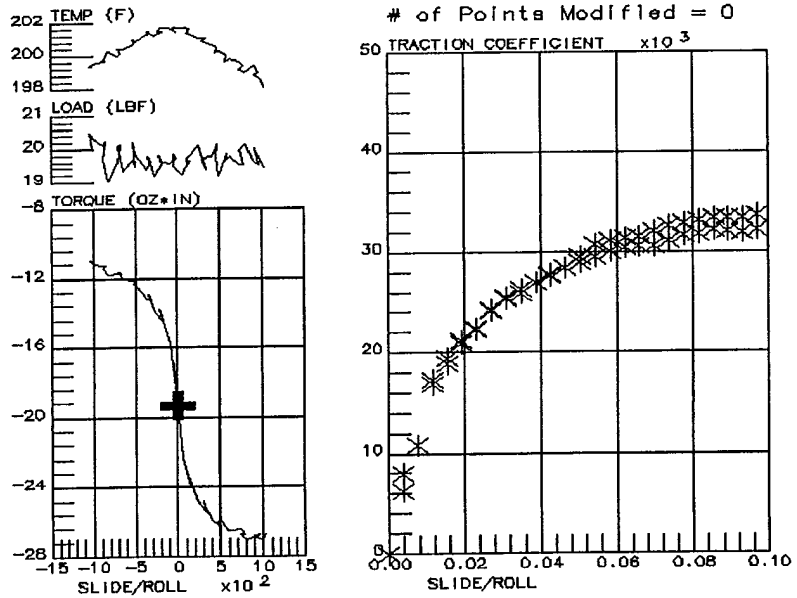
CO 90-715 ~220 Hatcol 3110 #189
200F 66LBF 5097RPM 4 FILE: co200vh



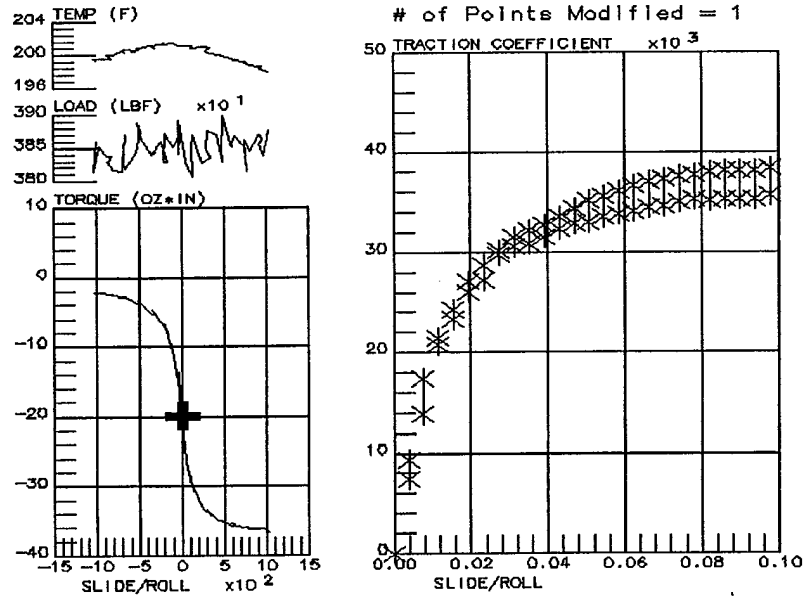
CO 90-715 ~220 Hatcol 3110 #190
200F 8LBF 7665RPM 5 FILE: co200vh



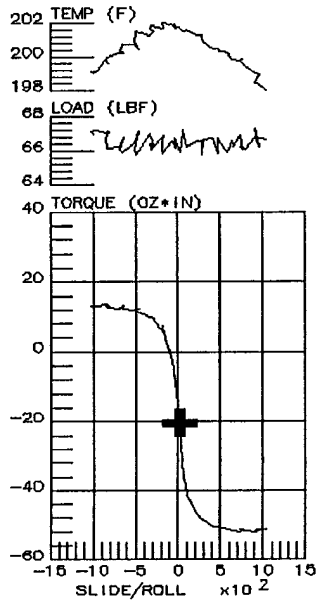
CO 90-715 ~220 Hatcol 3110 #191
200F 20LBF 7665RPM 6 FILE: co200vh



CO 90-715 ~220 Hatcol 3110 #192
200F 36LBF 7665RPM 7 FILE: co200vh



CO 90-715 ~220 Hatcol 3110 #193
200F 66LBF 7665RPM 8 FILE: co200vh



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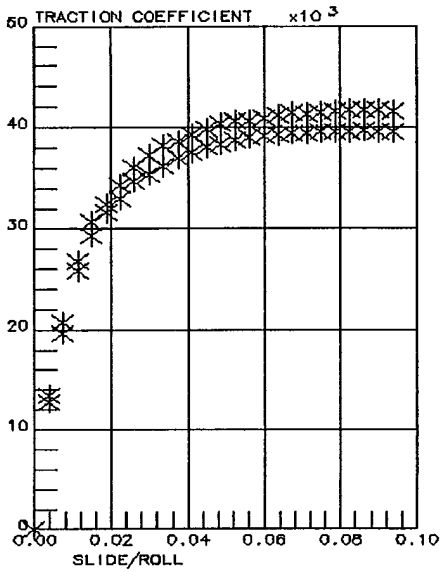
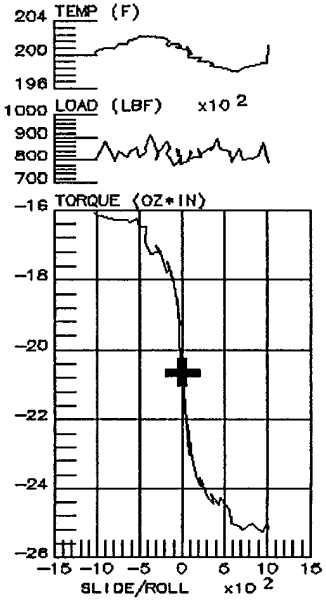


CO 90-715 ~220 Hatcol 3110 #194
200F 8LBF 10225RPM 9 FILE: co200vh



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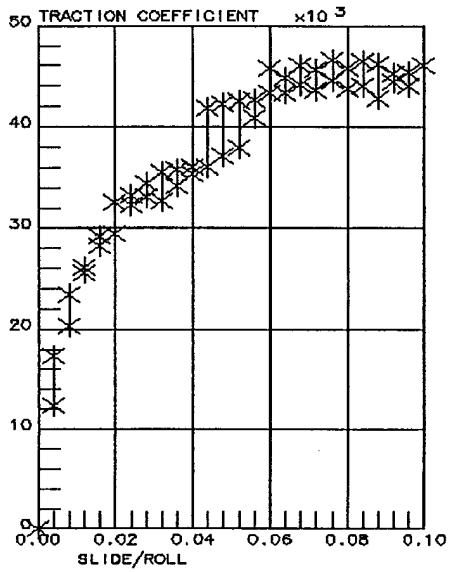
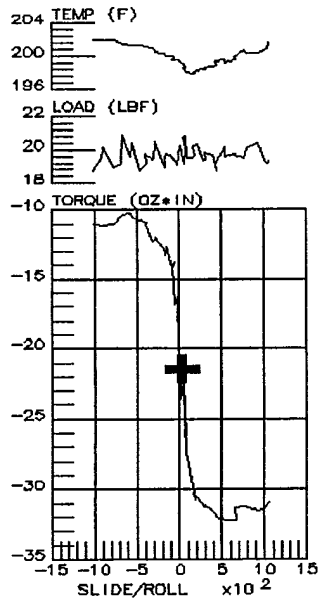
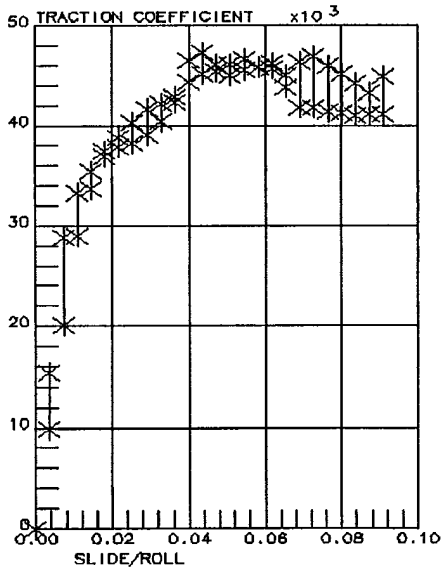


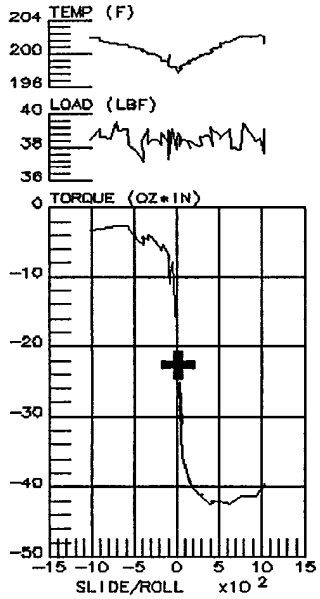
CO 90-715 ~220 Hatcol 3110 #195
200F 20LBF 10225RPM 10 FILE: co200vh



# of Points Modified = 1



CO 90-715 ~220 Hatcol 3110 #196
200F 38LBF 10225RPM 11 FILE: co200vh



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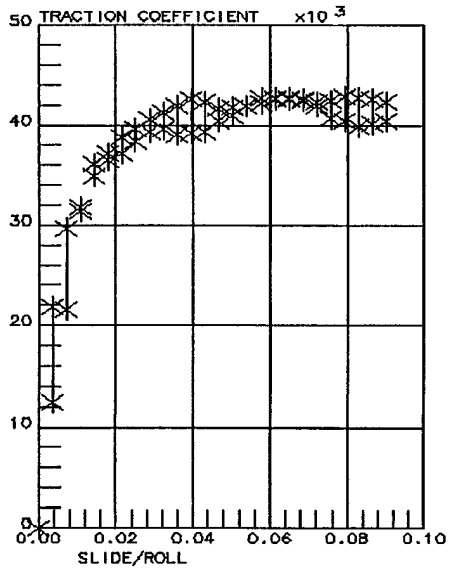
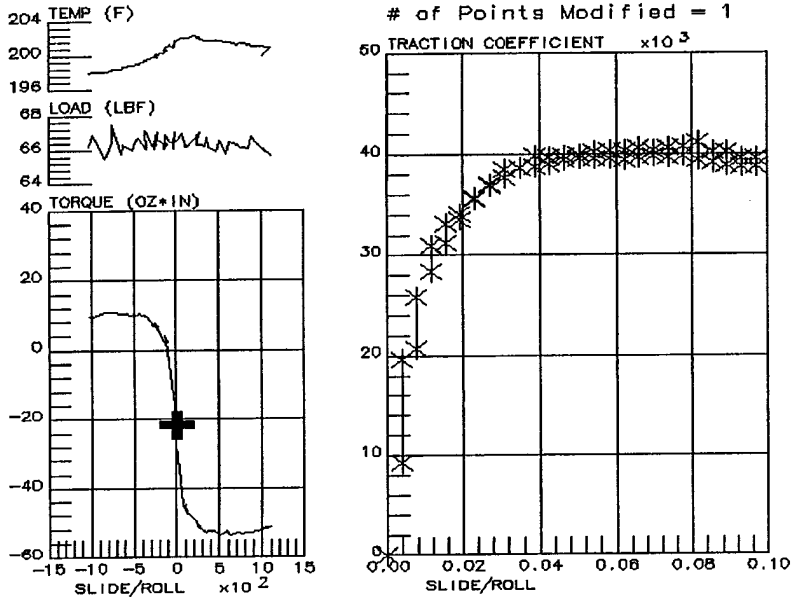
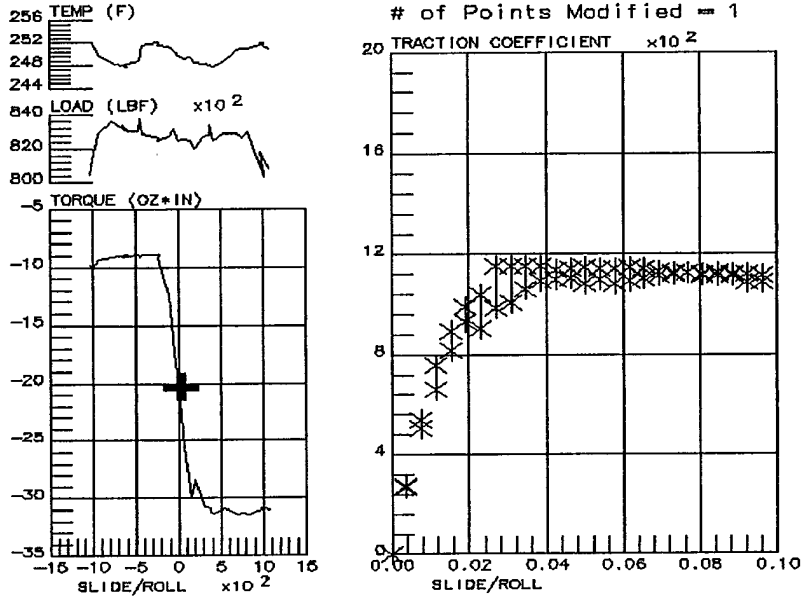


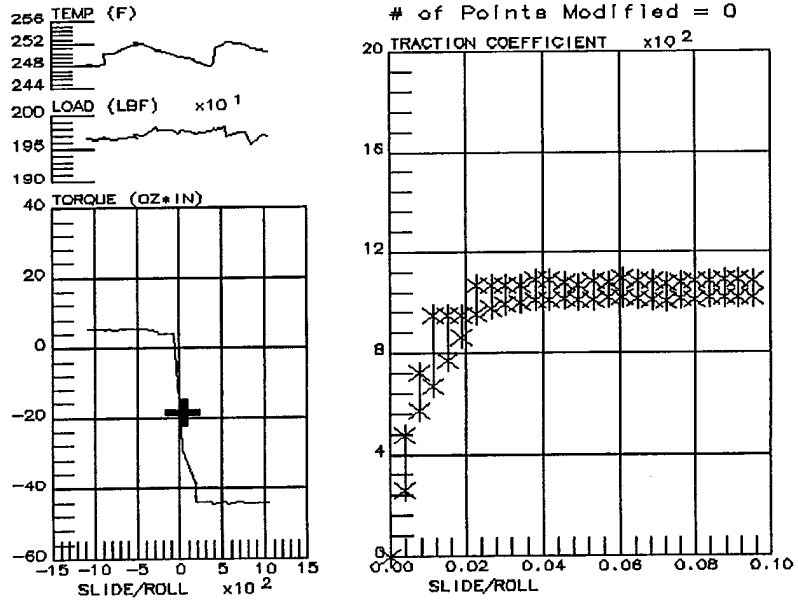
CO 90-715 ~220 Hatcol 3110 #197
200F 86LBF 10225RPM 12 FILE: co200vh



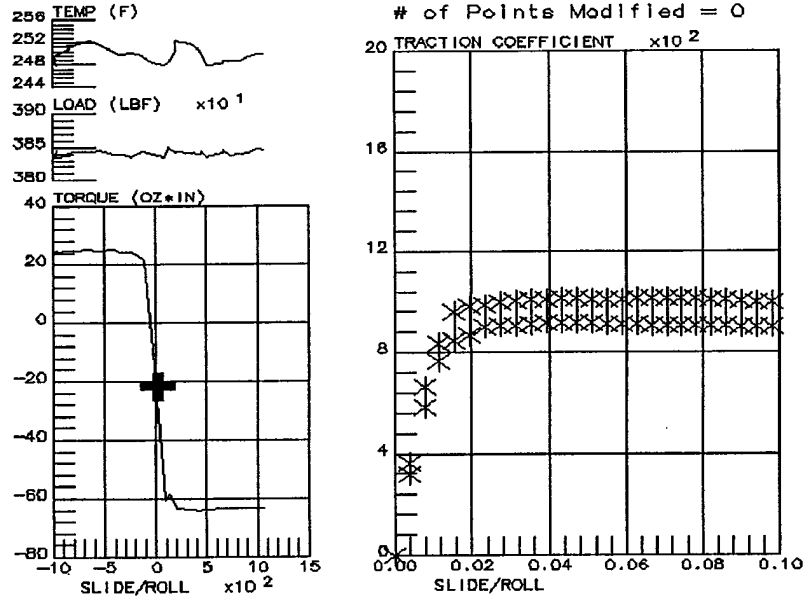
CO 90-715 ~220 Hatcol 3110 #198
250F 8LBF 306RPM 1 FILE: co25-30m



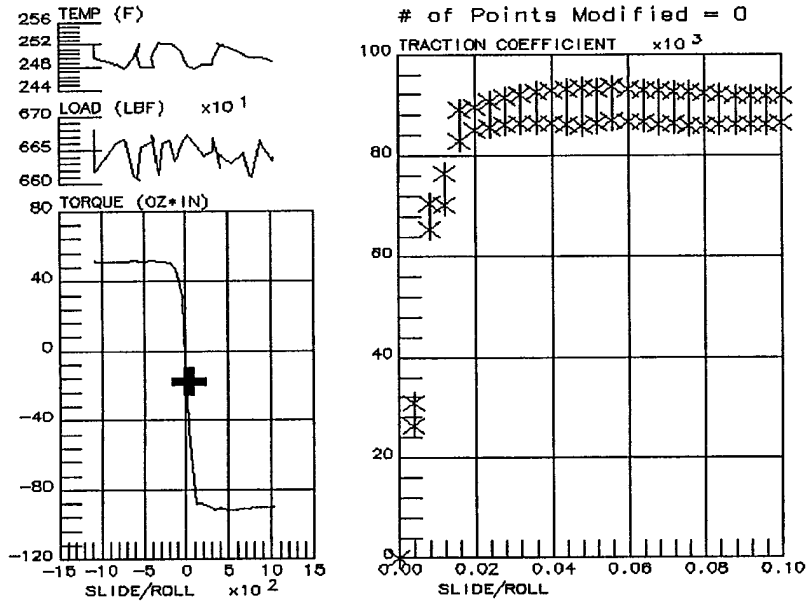
CO 90-715 ~220 Hatcol 3110 #199
250F 20LBF 306RPM 2 FILE: co25-30m



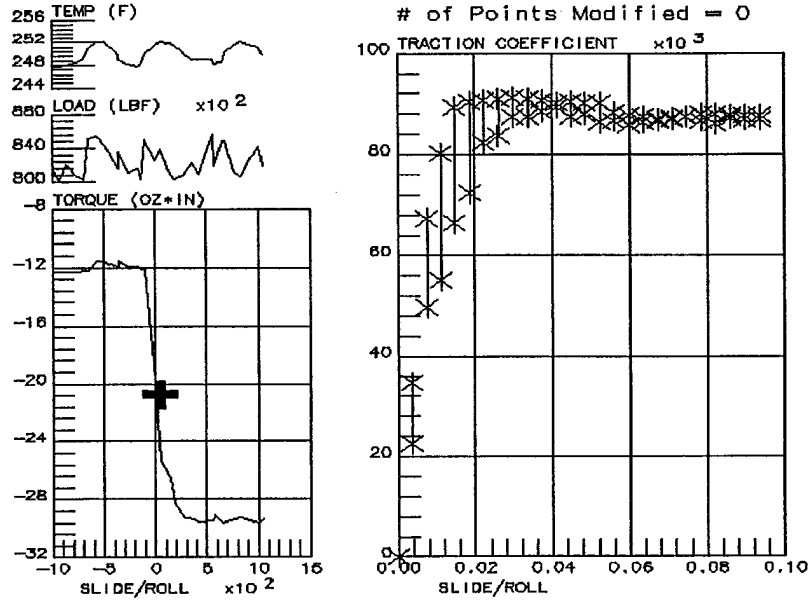
CO 90-715 ~220 Hatcol 3110 #200
250F 38LBF 306RPM 3 FILE: co25-30m



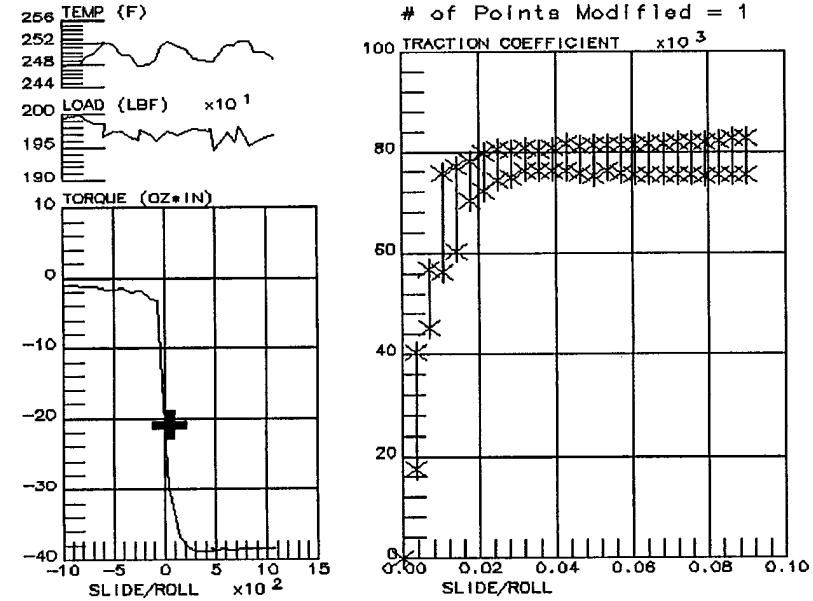
CO 90-715 ~220 Hatcol 3110 #201
250F 66LBF 306RPM 4 FILE: co25-30m



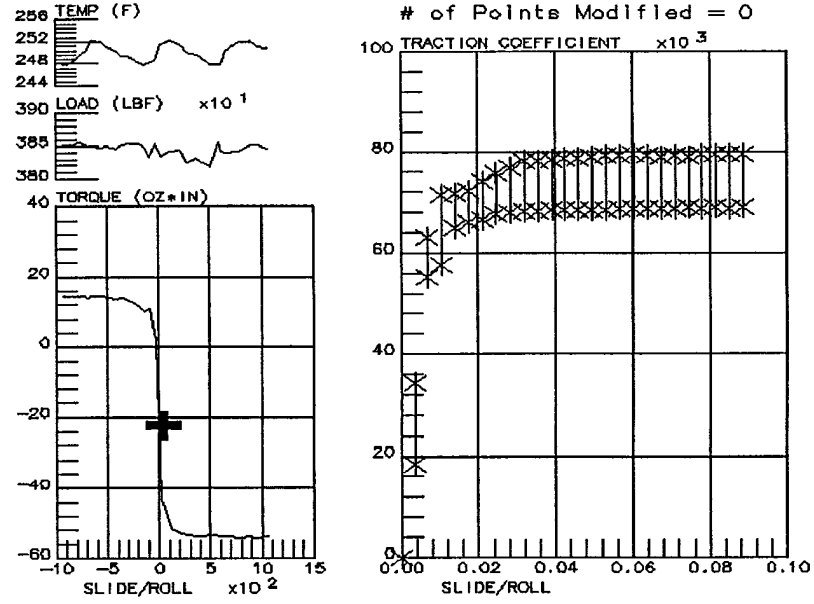
CO 90-715 ~220 Hatcol 3110 #202
250F 8LBF 651RPM 5 FILE: co25-30m



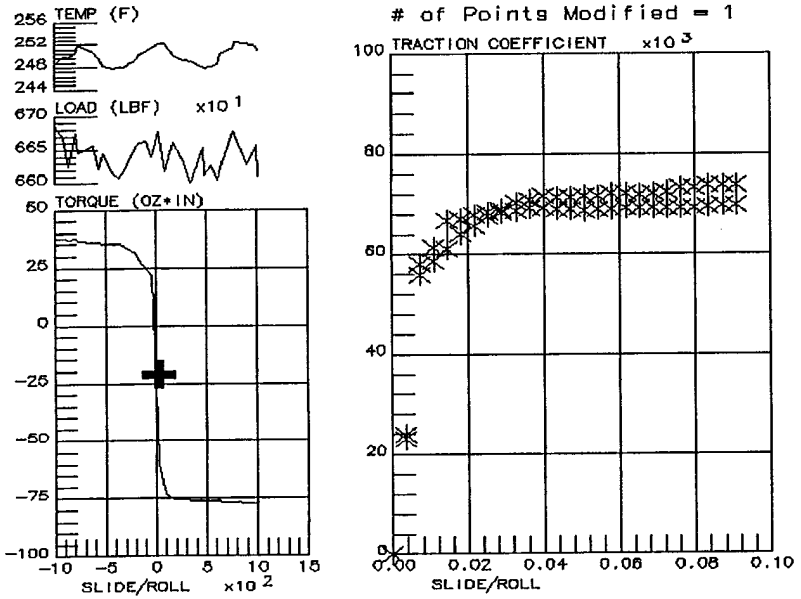
CO 90-715 ~220 Hatcol 3110 #203
250F 20LBF 651RPM 6 FILE: co25-30m



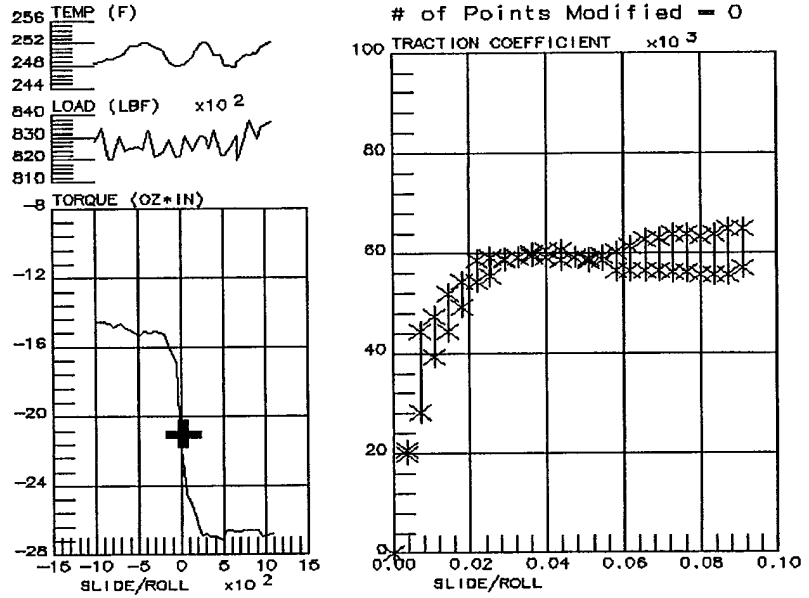
CO 90-715 ~220 Hatcol 3110 #204
250F 38LBF 651RPM 7 FILE: co25-30m



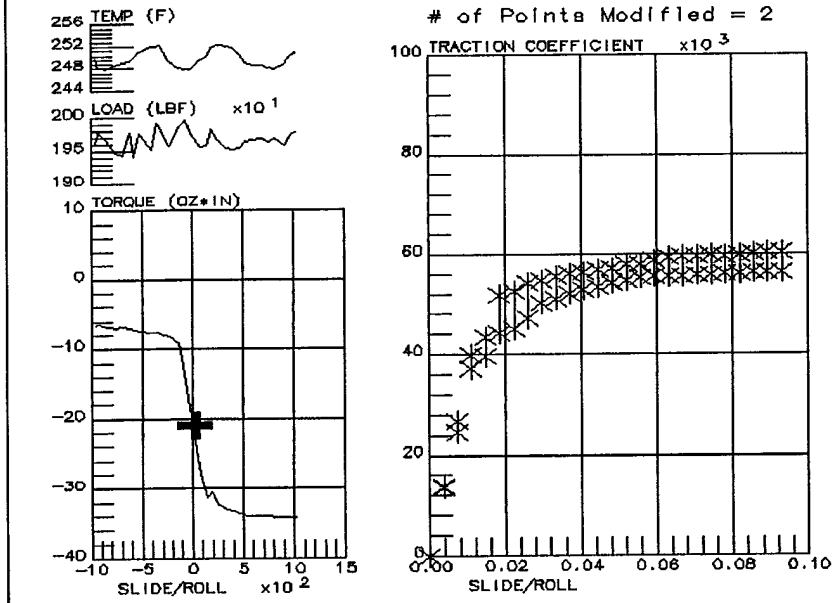
CO 90-715 ~220 Hatcol 3110 #205
250F 66LBF 651RPM 8 FILE: co25-30m



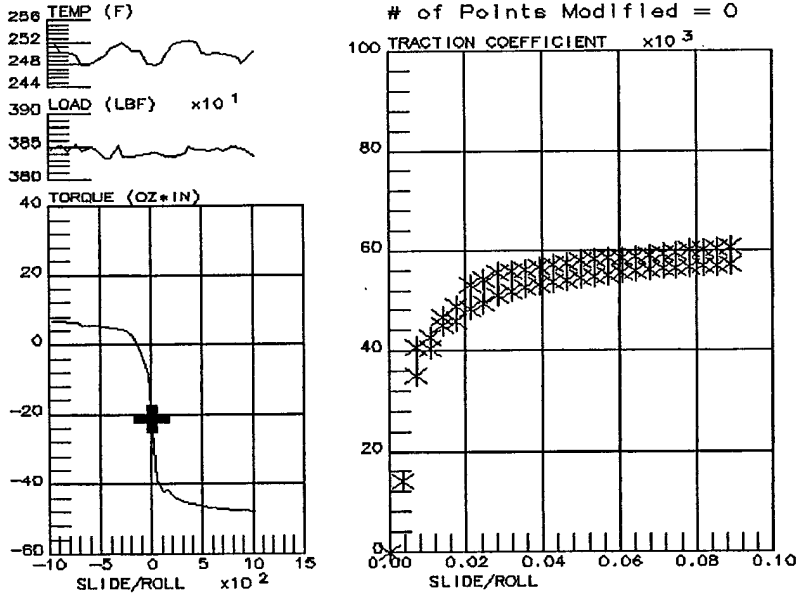
CO 90-715 ~220 Hatcol 3110 #206
250F 8LBF 1264RPM 9 FILE: co25-30m



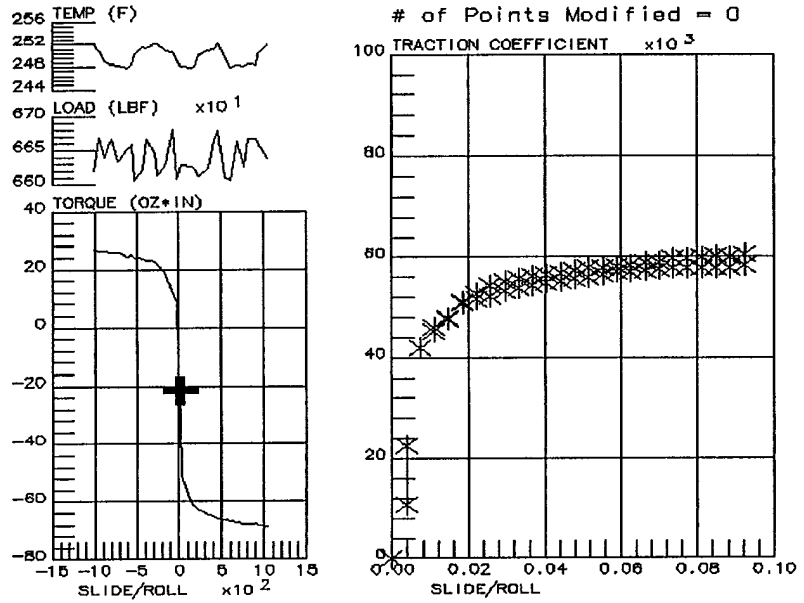
CO 90-715 ~220 Hatcol 3110 #207
250F 20LBF 1264RPM 10 FILE: co25-30m



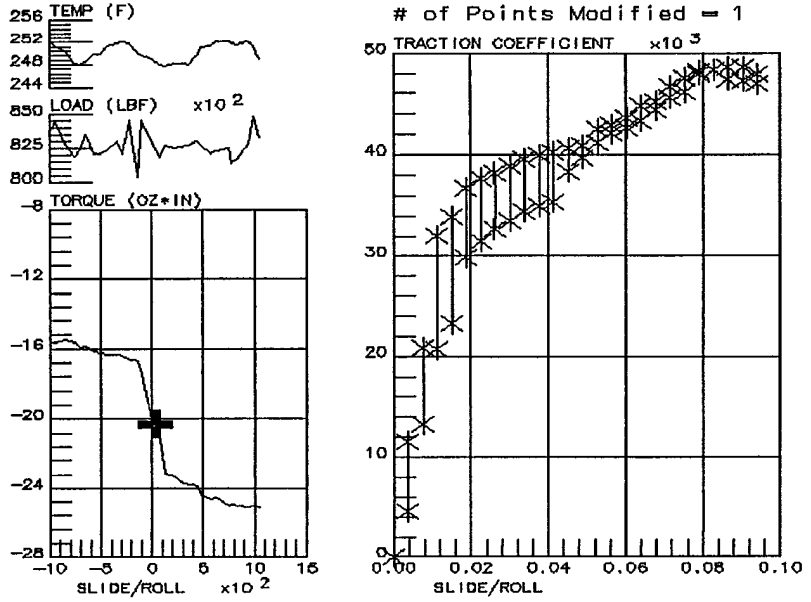
CO 90-715 ~220 Hatcol 3110 #208
250F 38LBF 1264RPM 11 FILE: co25-30m



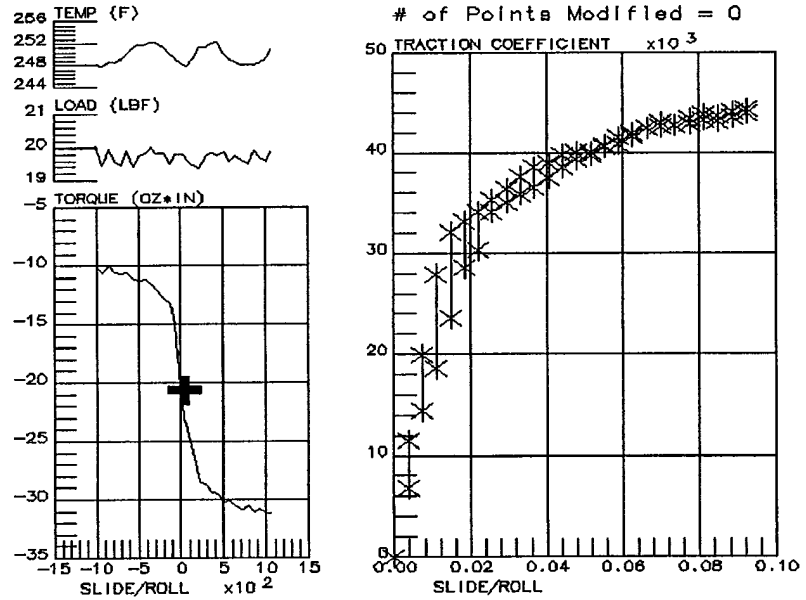
CO 90-715 ~220 Hatcol 3110 #209
250F 66LBF 1264RPM 12 FILE: co25-30m



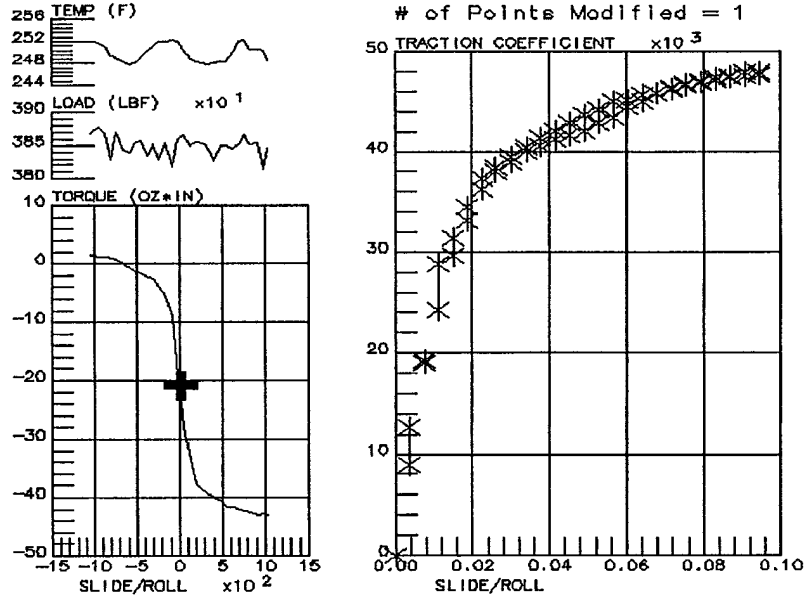
CO 90-715 ~220 Hatcol 3110 #210
250F 8LBF 2568RPM 13 FILE: co25-30m



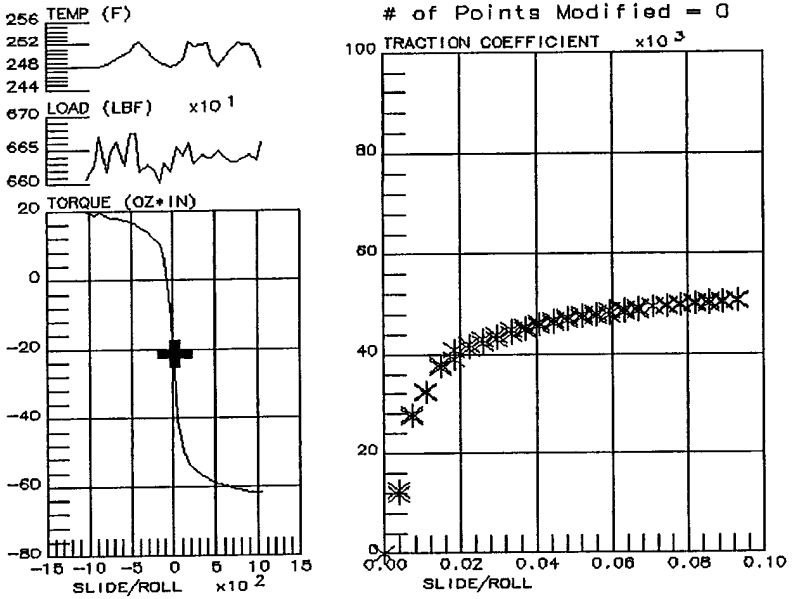
CO 90-715 ~220 Hatcol 3110 #211
250F 20LBF 2568RPM 14 FILE: co25-30m



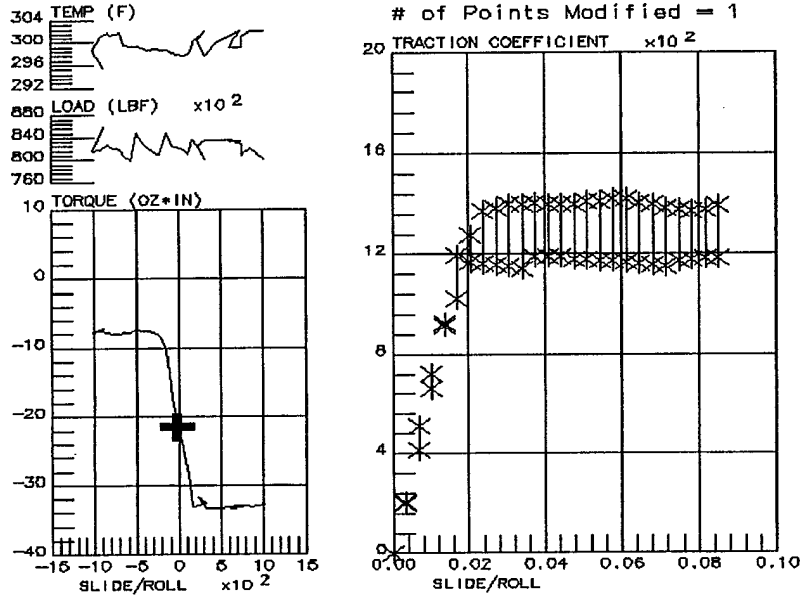
CO 90-715 ~220 Hatcol 3110 #212
250F 38LBF 2568RPM 15 FILE: co25-30m



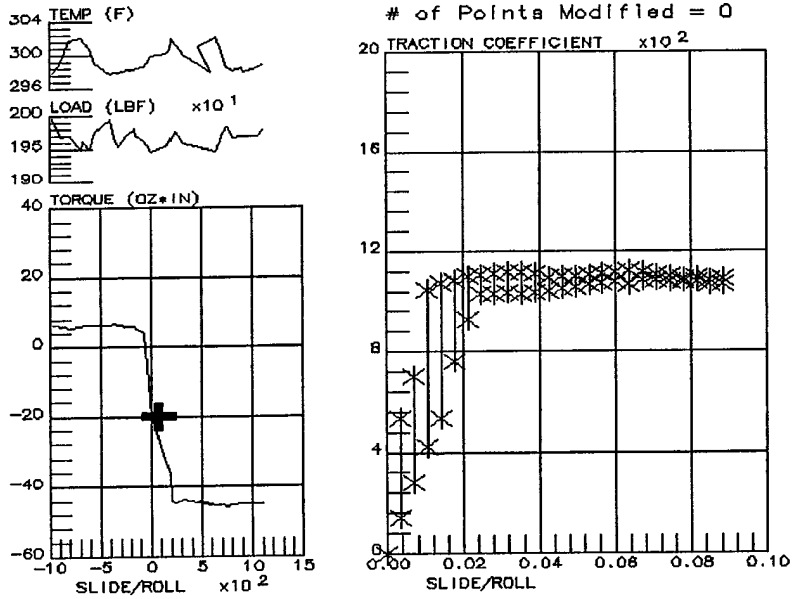
CO 90-715 ~220 Hatcol 3110 #213
250F 66LBF 2566RPM 16 FILE: co25-30m



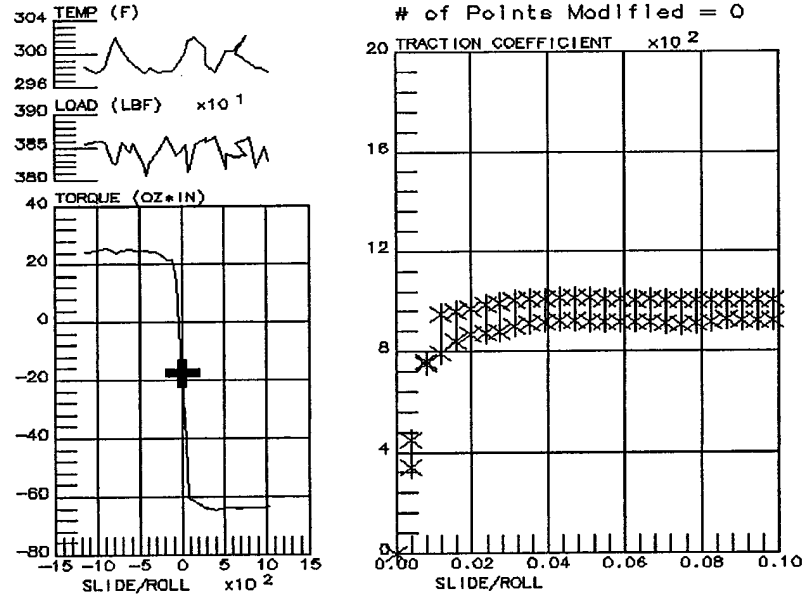
CO 90-715 ~220 Hatcol 3110 #214
300F 8LBF 306RPM 17 FILE: co25-30m



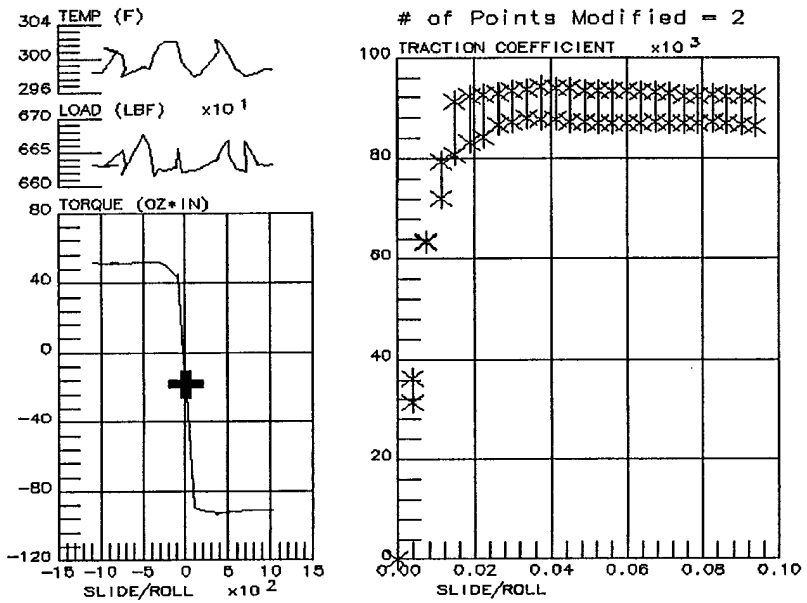
CO 90-715 ~220 Hatcol 3110 #215
300F 20LBF 306RPM 18 FILE: co25-30m



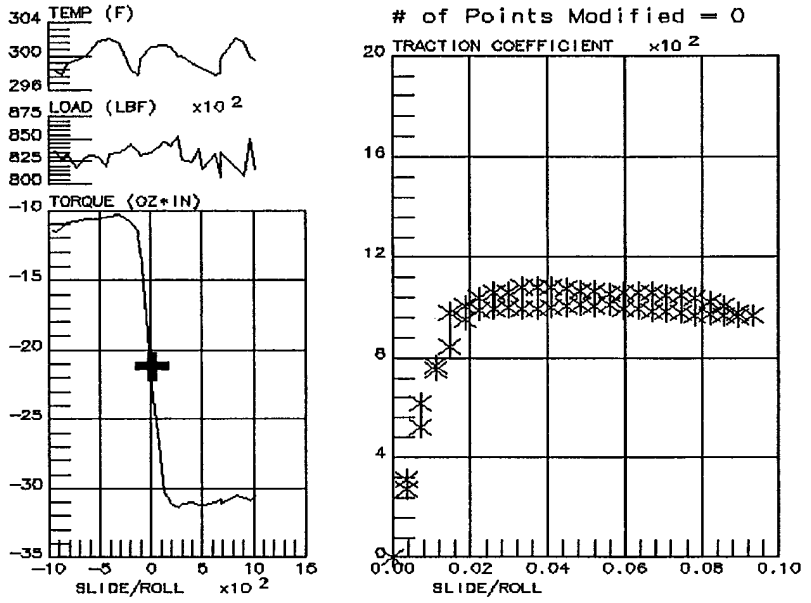
CO 90-715 ~220 Hatcol 3110 #216
300F 38LBF 306RPM 19 FILE: co25-30m



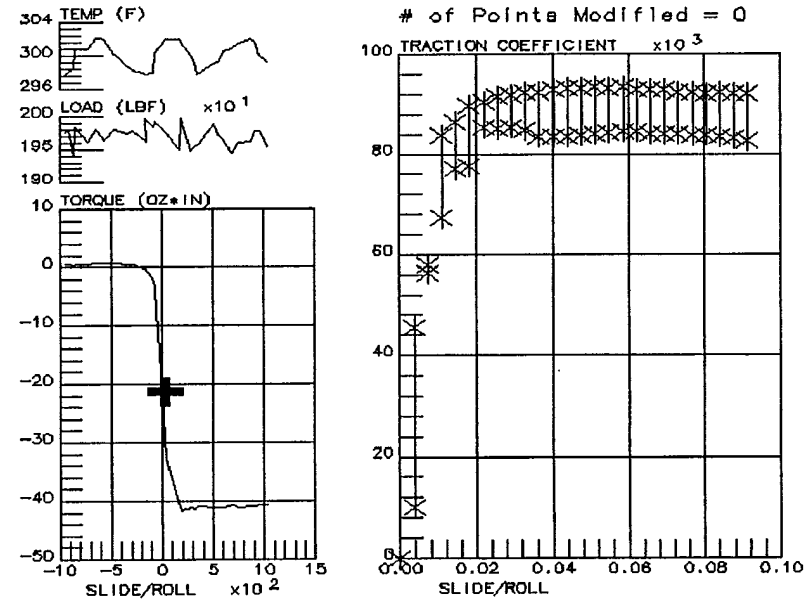
CO 90-715 ~220 Hatcol 3110 #217
300F 66LBF 306RPM 20 FILE: co25-30m



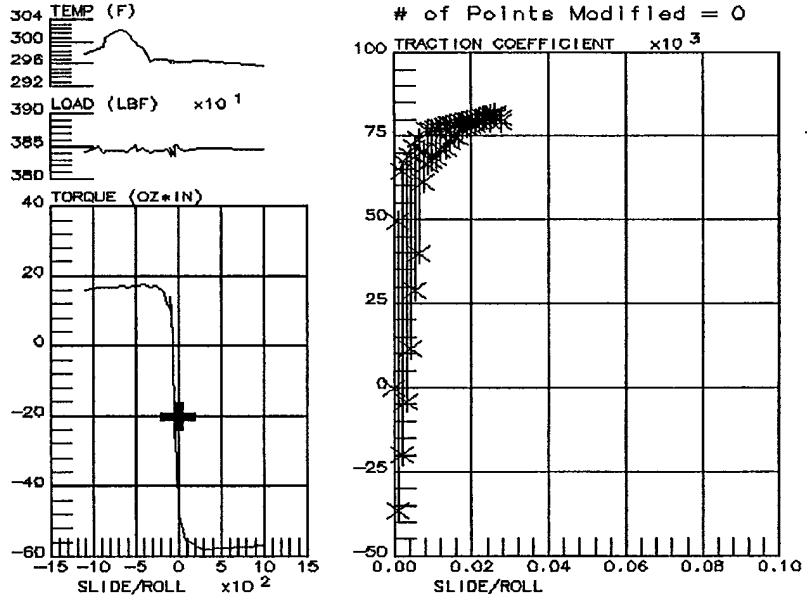
CO 90-715 ~220 Hatcol 3110 #218
300F 8LBF 651RPM 21 FILE: co25-30m



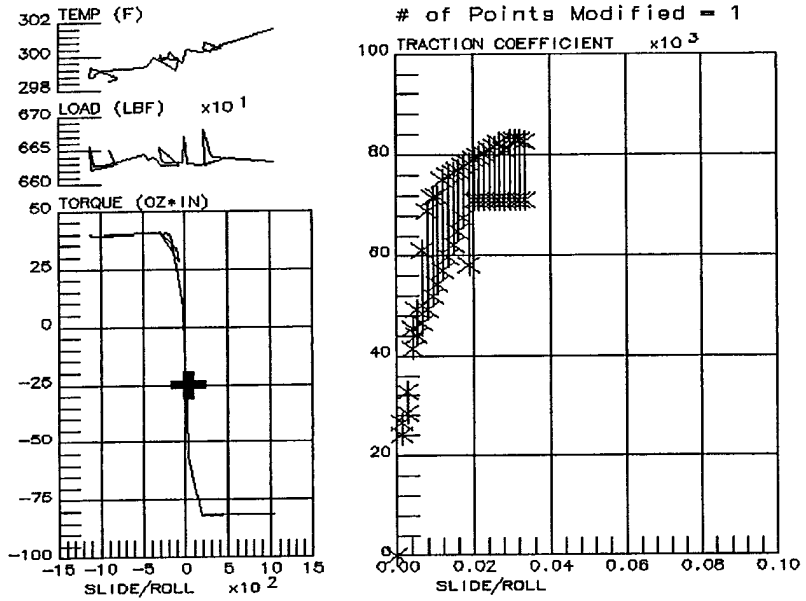
CO 90-715 ~220 Hatcol 3110 #219
300F 20LBF 651RPM 22 FILE: co25-30m



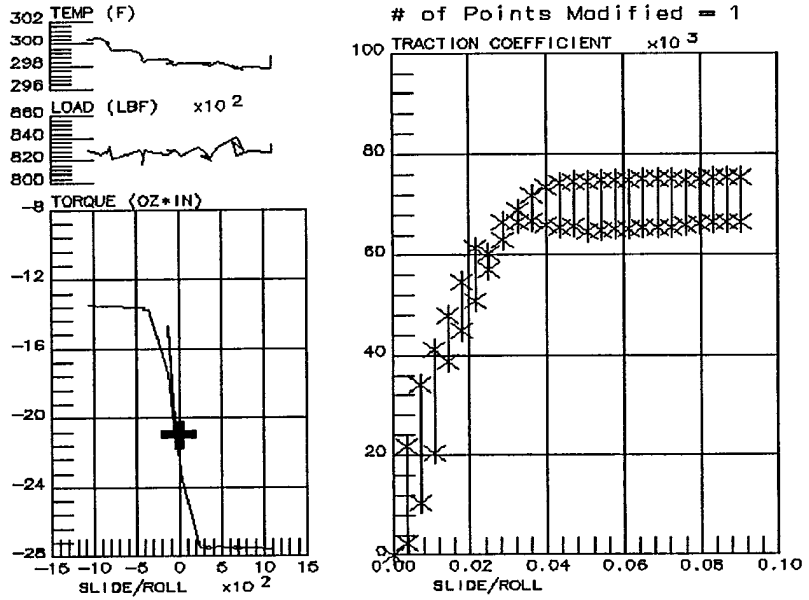
CO 90-715 ~220 Hatcol 3110 #220
300F 38LBF 651RPM 23 FILE: co25-30m



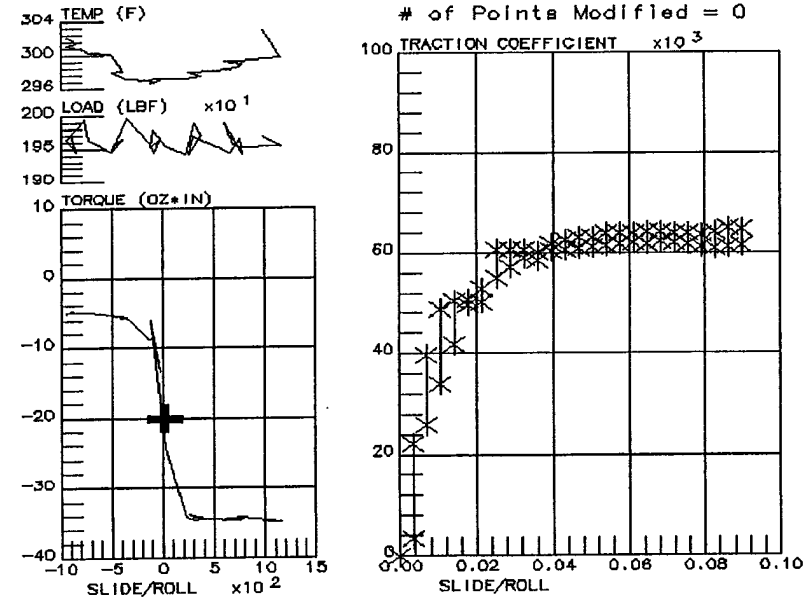
CO 90-715 ~220 Hatcol 3110 #221
300F 86LBF 651RPM 24 FILE: co25-30m



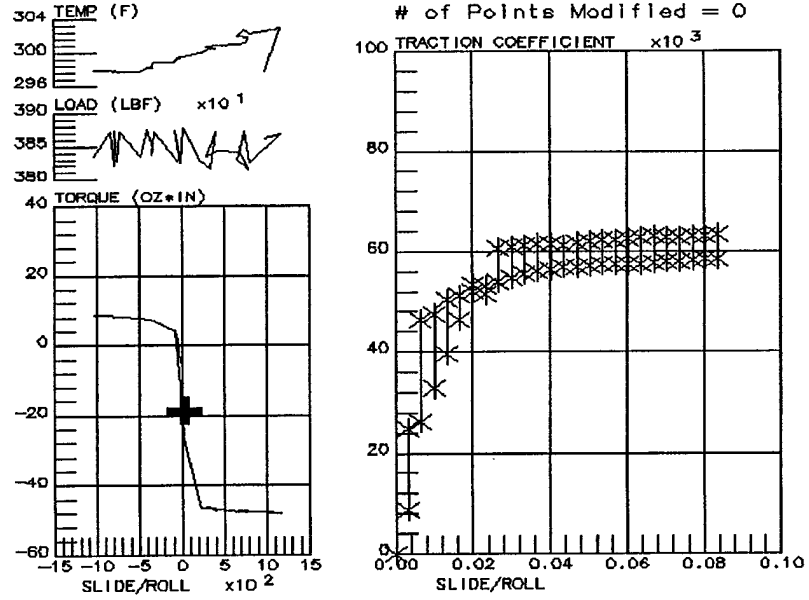
CO 90-715 ~220 Hatcol 3110 #222
300F 8LBF 1264RPM 25 FILE: co25-30m



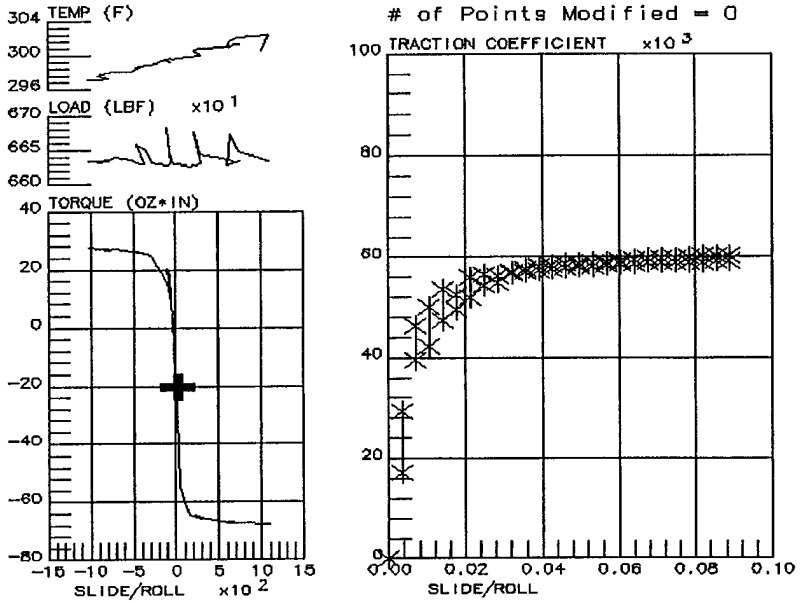
CO 90-715 ~220 Hatcol 3110 #223
300F 20LBF 1264RPM 26 FILE: co25-30m



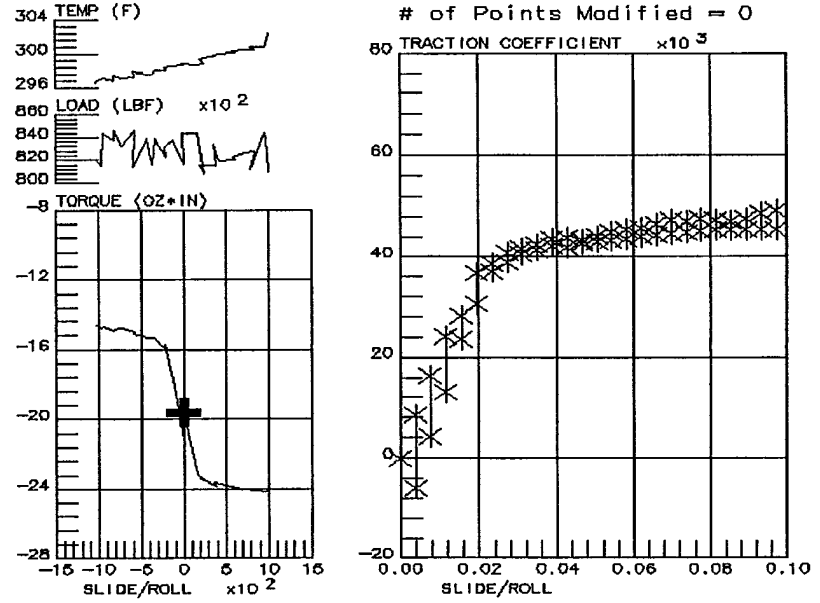
CO 90-715 ~220 Hatcol 3110 #224
300F 38LBF 1264RPM 27 FILE: co25-30m



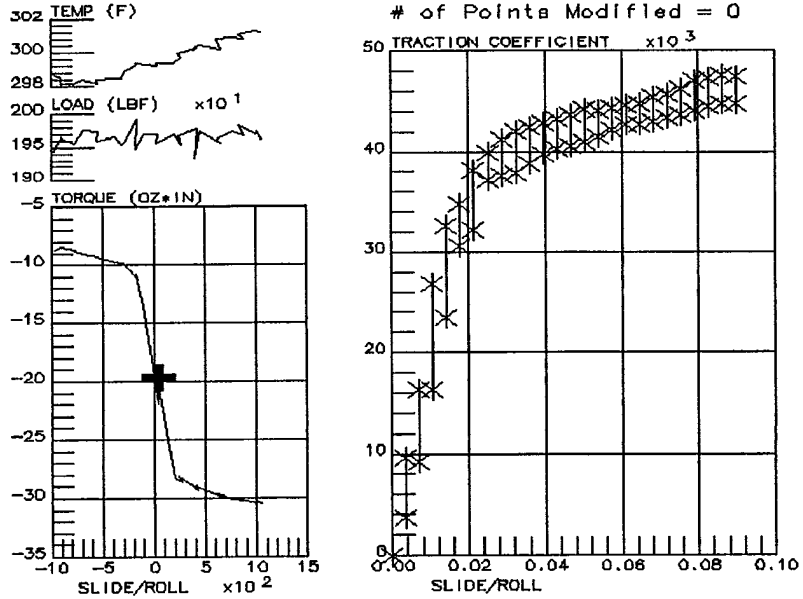
CO 90-715 ~220 Hatcol 3110 #225
300F 66LBF 1264RPM 28 FILE: co25-30m



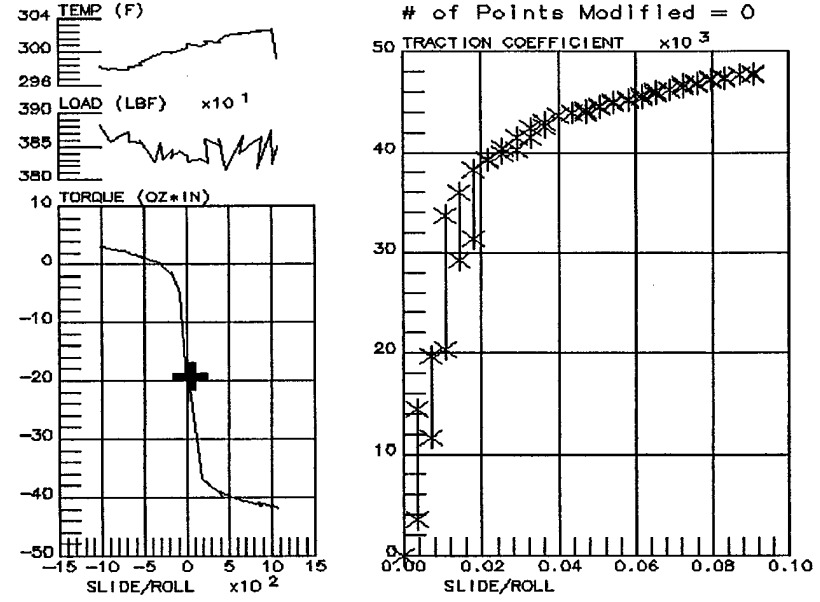
CO 90-715 ~220 Hatcol 3110 #226
300F 8LBF 2568RPM 29 FILE: co25-30m



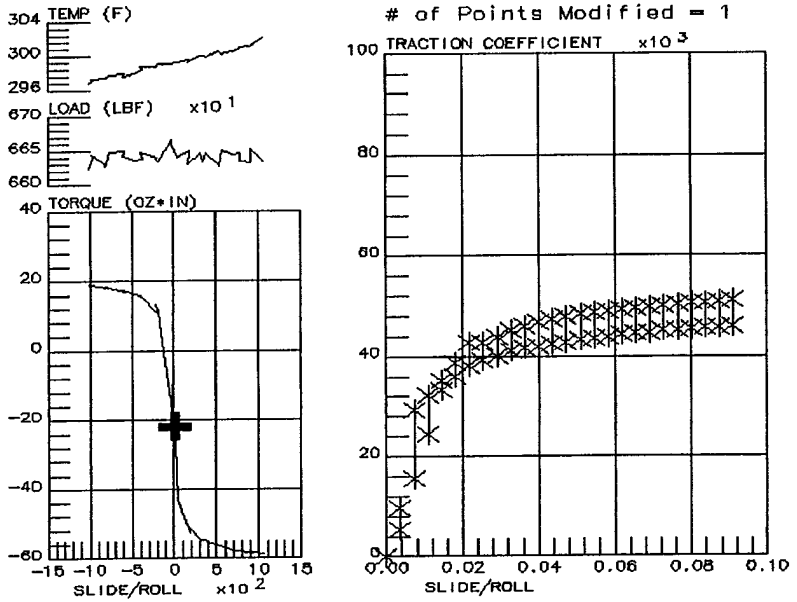
CO 90-715 ~220 Hatcol 3110 #227
300F 20LBF 2568RPM 30 FILE: co25-30m



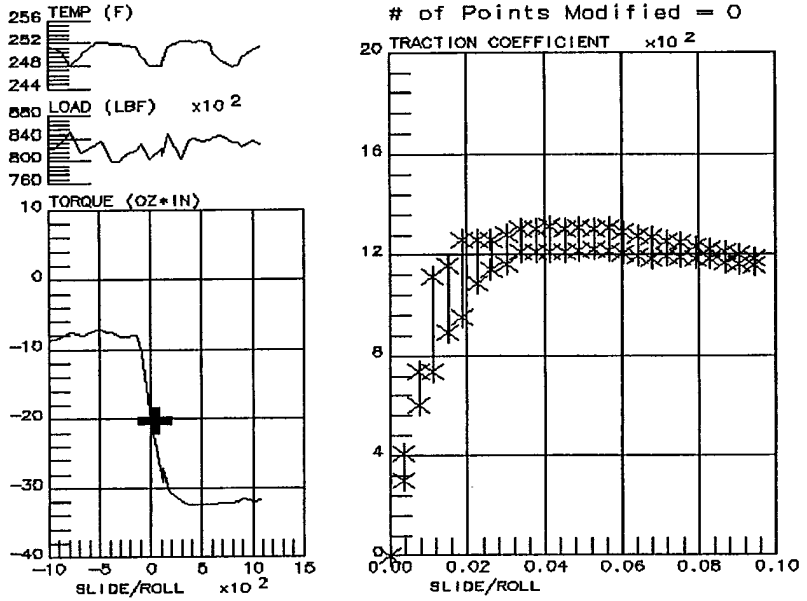
CO 90-715 ~220 Hatcol 3110 #228
300F 38LBF 2568RPM 31 FILE: co25-30m



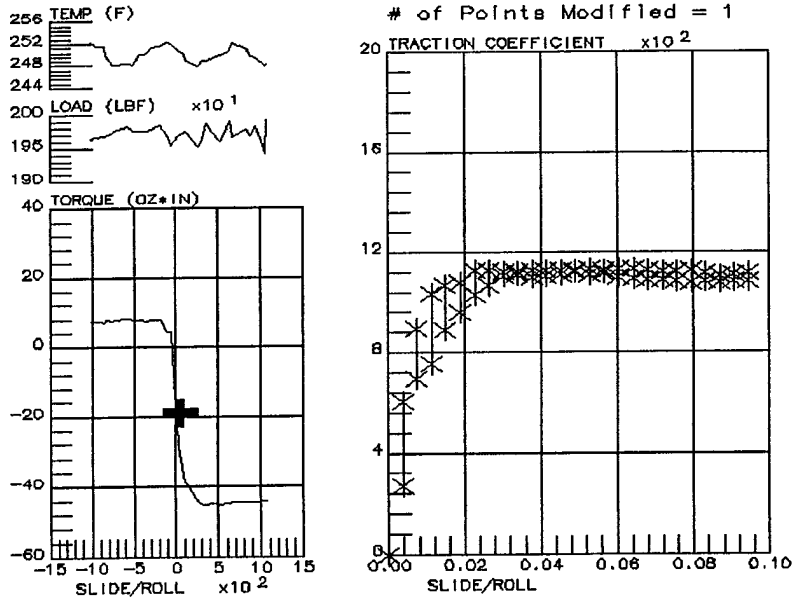
CO 90-715 ~220 Hatcol 3110 #229
300F 66LBF 2568RPM 32 FILE: co25-30m



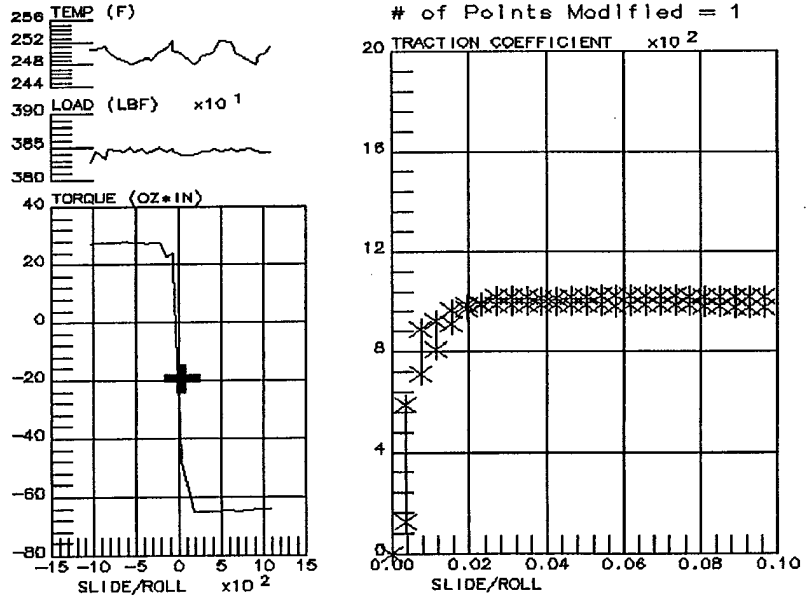
CO 90-715 ~220 Hatcol 3110 #230
250F 8LBF 306RPM 1 FILE: co250v1



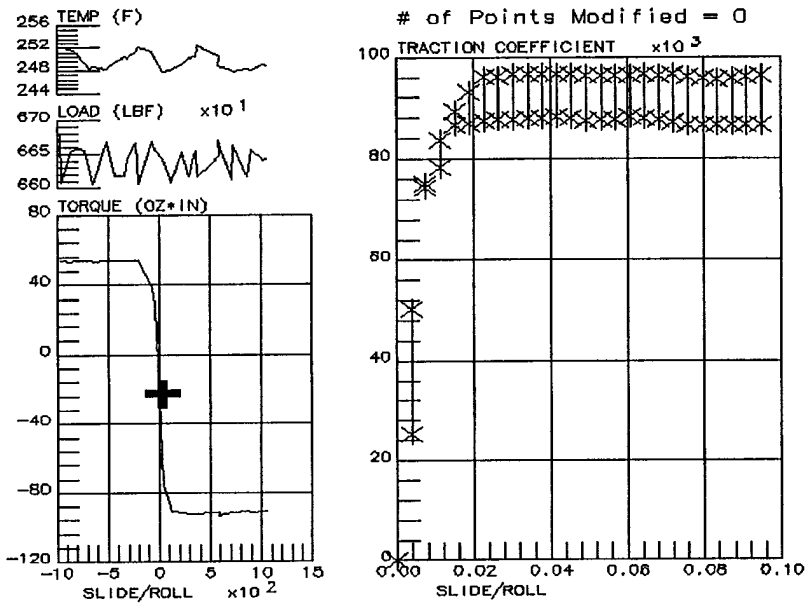
CO 90-715 ~220 Hatcol 3110 #231
250F 20LBF 306RPM 2 FILE: co250v1



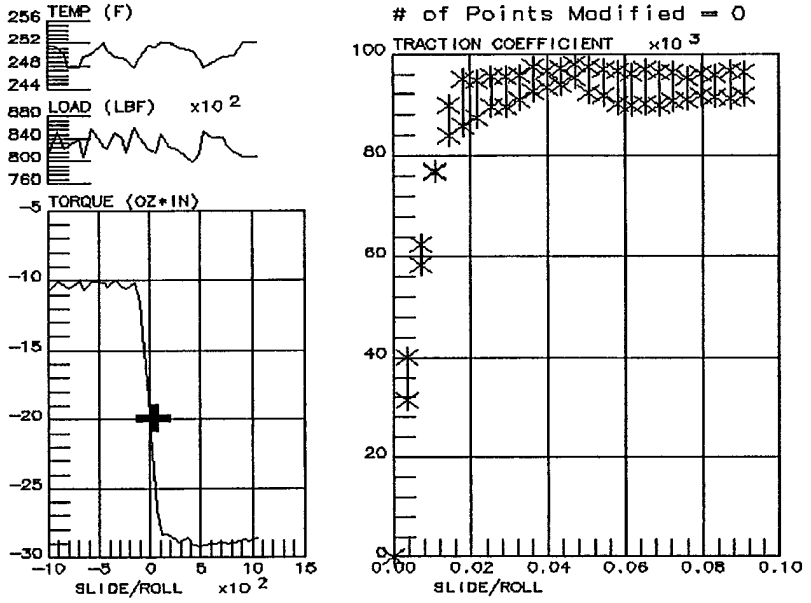
CO 90-715 ~220 Hatcol 3110 #232
250F 38LBF 306RPM 3 FILE: co250v1



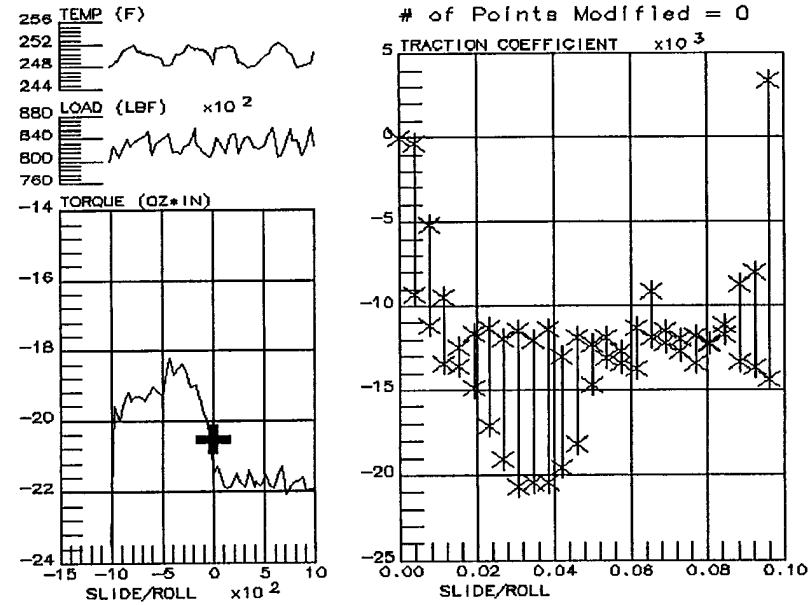
CO 90-715 ~220 Hatcol 3110 #233
250F 66LBF 306RPM 4 FILE: co250v1



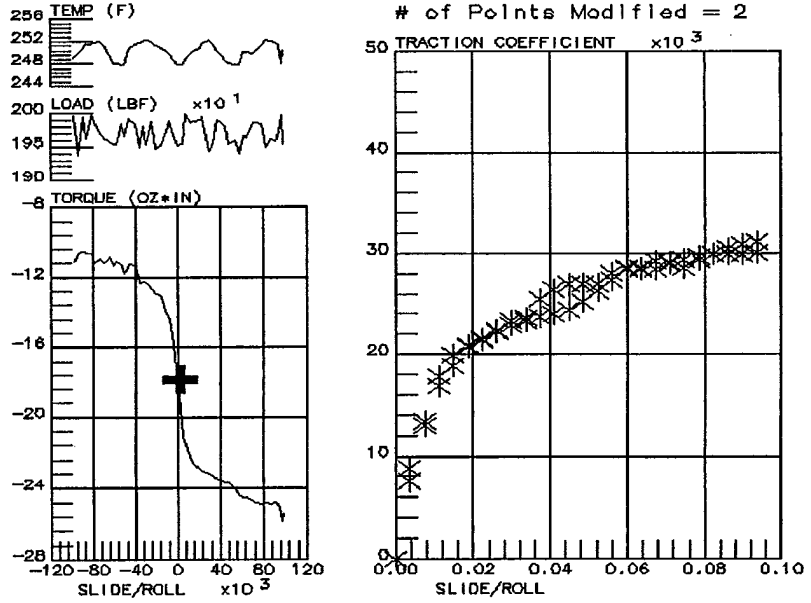
CO 90-715 ~220 Hatcol 3110 #234
250F 8LBF 651RPM 5 FILE: co250v1



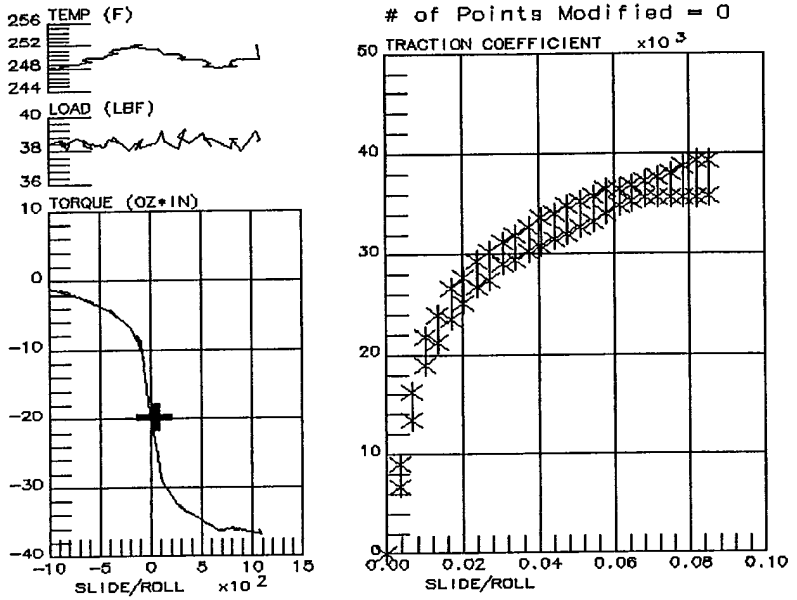
CO 90-715 ~220 Hatcol 3110 #235
250F 8LBF 5097RPM 1 FILE: co250vh



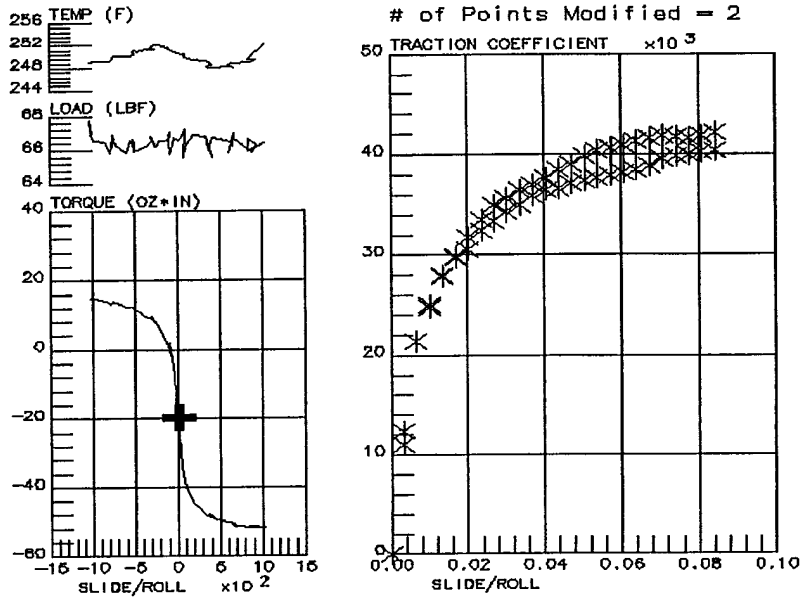
CO 90-715 ~220 Hatcol 3110 #236
250F 20LBF 5097RPM 2 FILE: co250vh



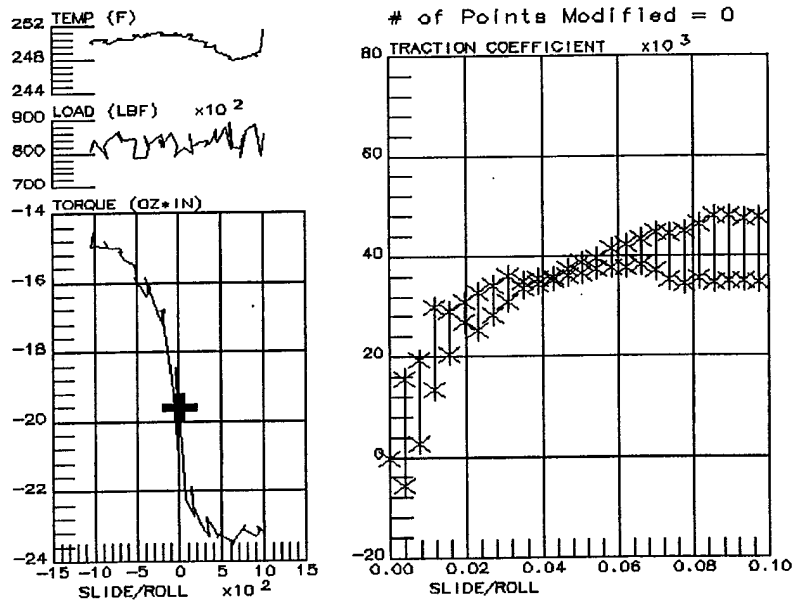
CO 90-715 ~220 Hatcol 3110 #237
250F 38LBF 5097RPM 3 FILE: co250vh



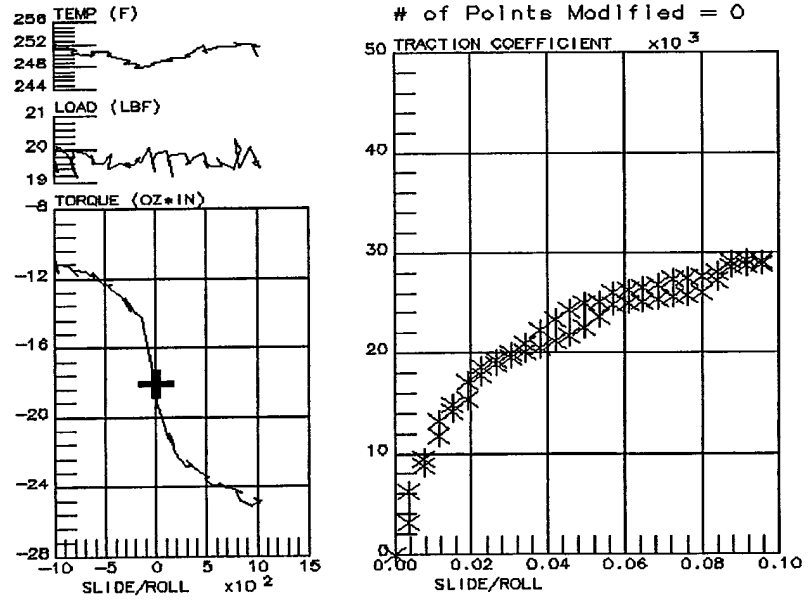
CO 90-715 ~220 Hatcol 3110 #238
250F 66LBF 5097RPM 4 FILE: co250vh



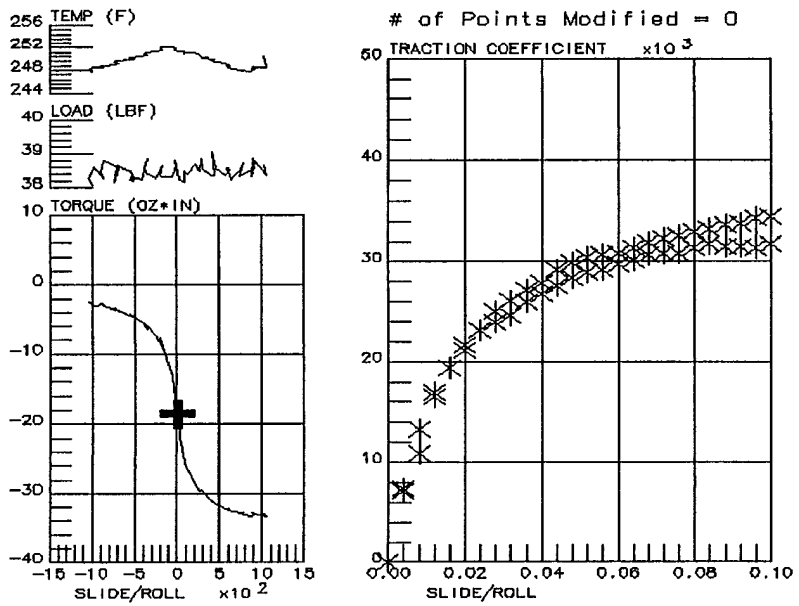
CO 90-715 ~220 Hatcol 3110 #239
250F 8LBF 7665RPM 5 FILE: co250vh



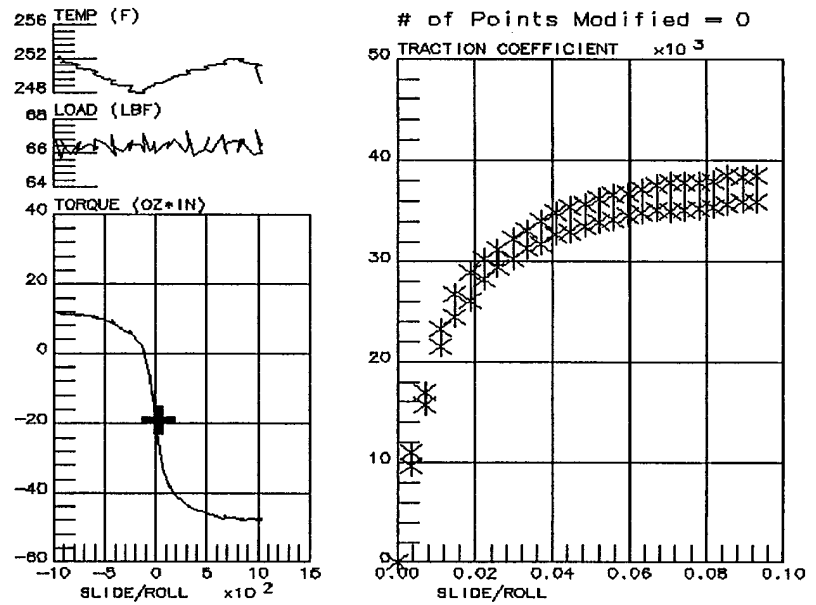
CO 90-715 ~220 Hatcol 3110 #240
250F 20LBF 7665RPM 6 FILE: co250vh



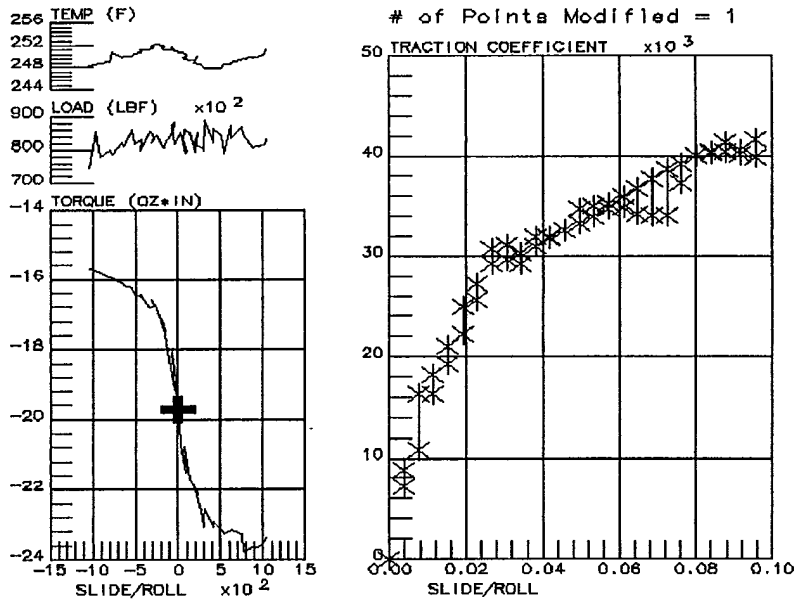
CO 90-715 ~220 Hatcol 3110 #241
250F 38LBF 7665RPM 7 FILE: co250vh



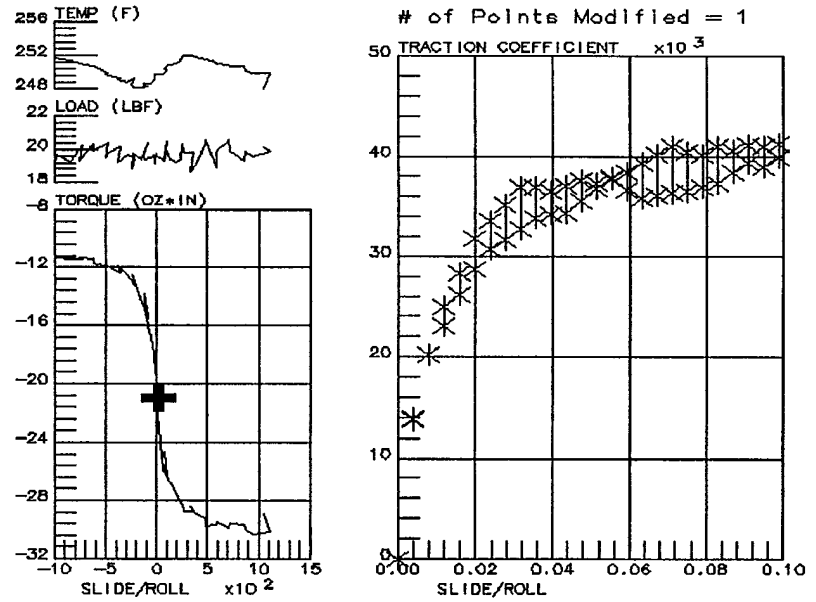
CO 90-715 ~220 Hatcol 3110 #242
250F 66LBF 7665RPM 8 FILE: co250vh



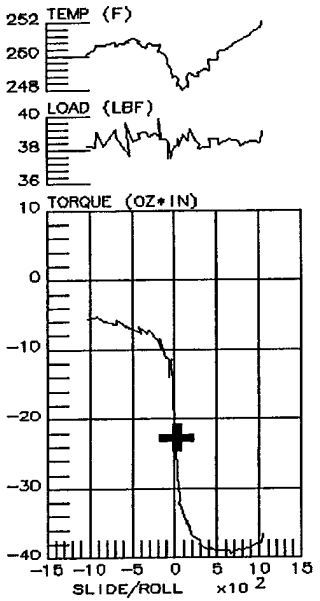
CO 90-715 ~220 Hatcol 3110 #243
250F 81LBF 10225RPM 9 FILE: co250vh

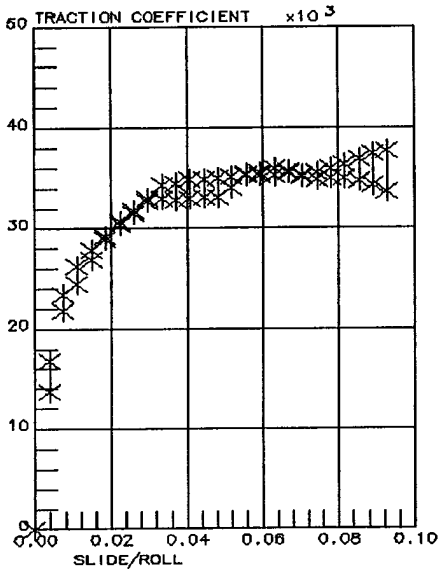


CO 90-715 ~220 Hatcol 3110 #244
250F 20LBF 10225RPM 10 FILE: co250vh

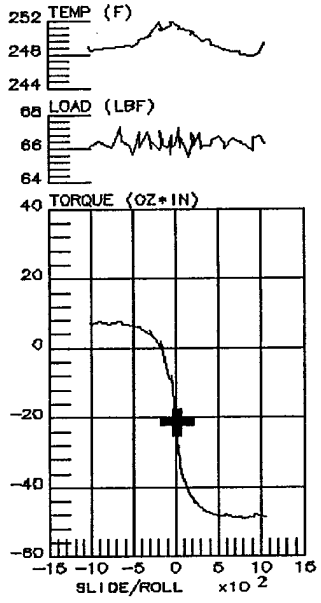


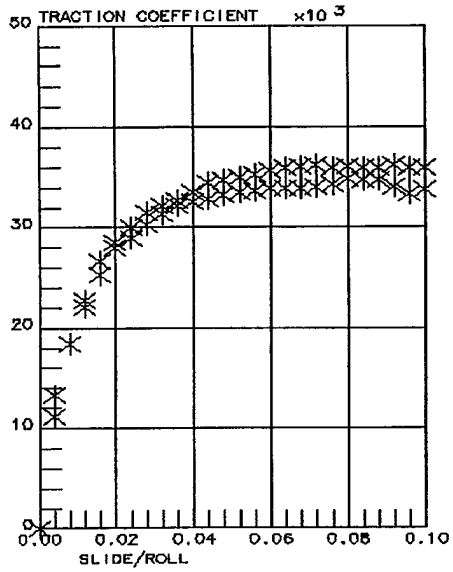
CO 90-715 ~220 Hatcol 3110 #245
250F 38LBF 10225RPM 11 FILE: co250vh



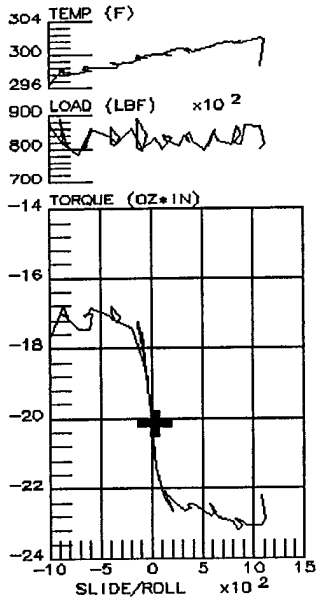


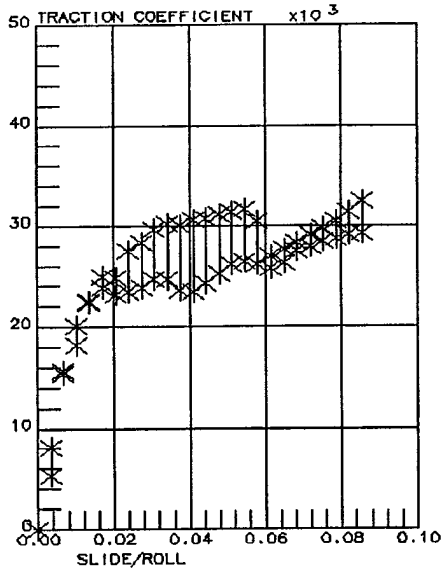
CO 90-715 ~220 Hatcol 3110 #246
250F 66LBF 10225RPM 12 FILE: co250vh



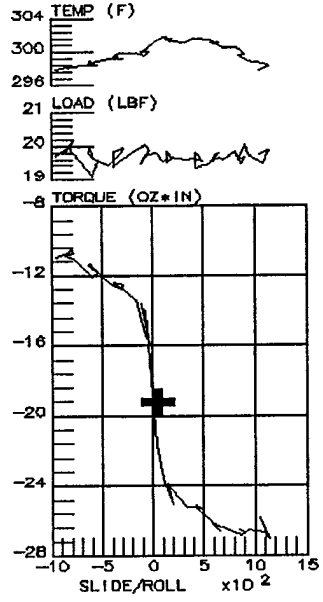


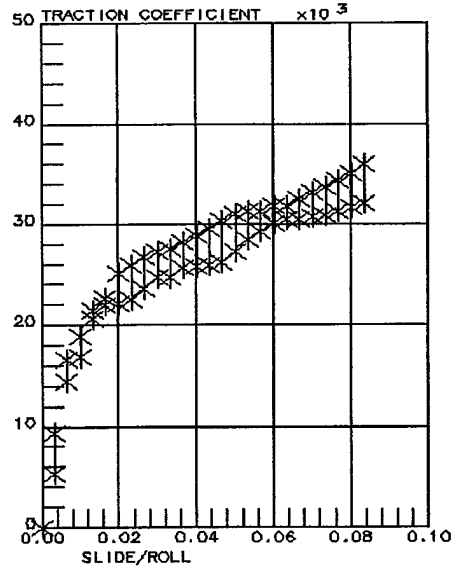
CO 90-715 ~220 Hatcol 3110 #247
300F 8LBF 5097RPM 1 FILE: co300vh



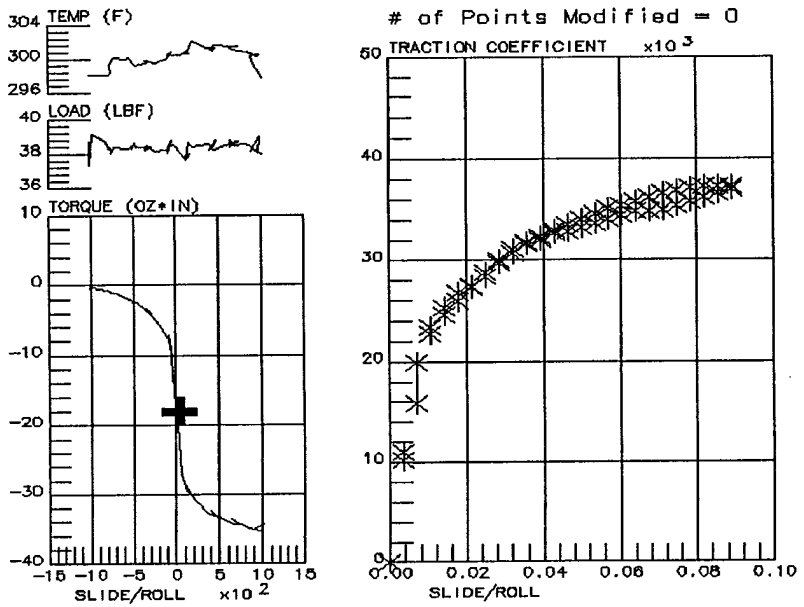


CO 90-715 ~220 Hatcol 3110 #248
300F 20LBF 5097RPM 2 FILE: co300vh

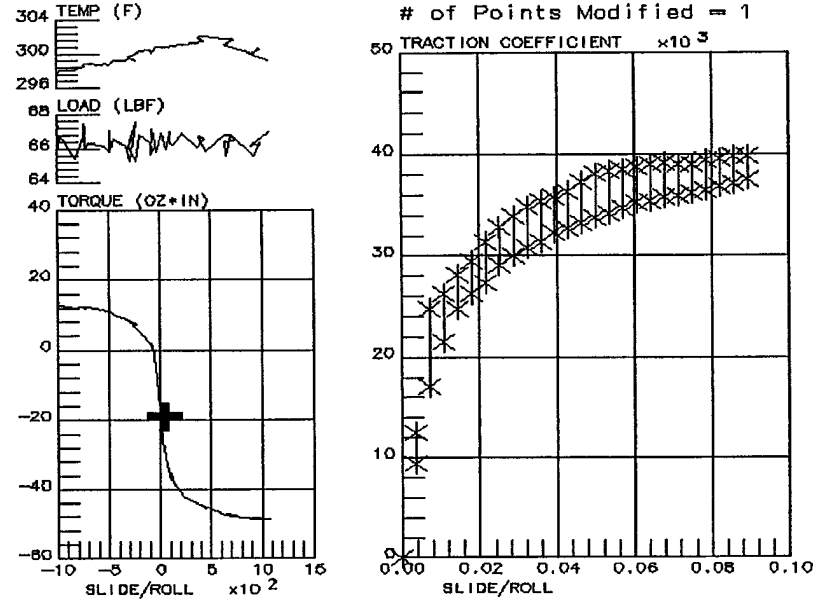




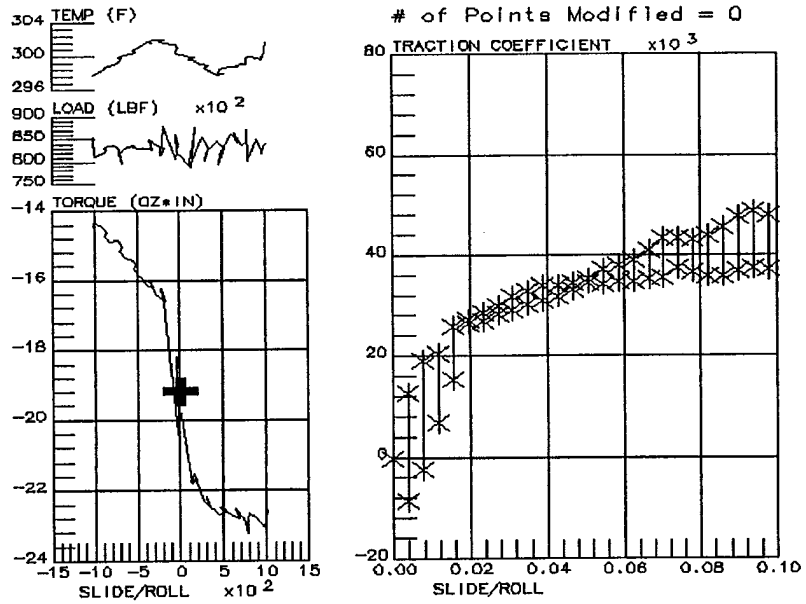
CO 90-715 ~220 Hatcol 3110 #249
300F 38LBF 5097RPM 3 FILE: co300vh



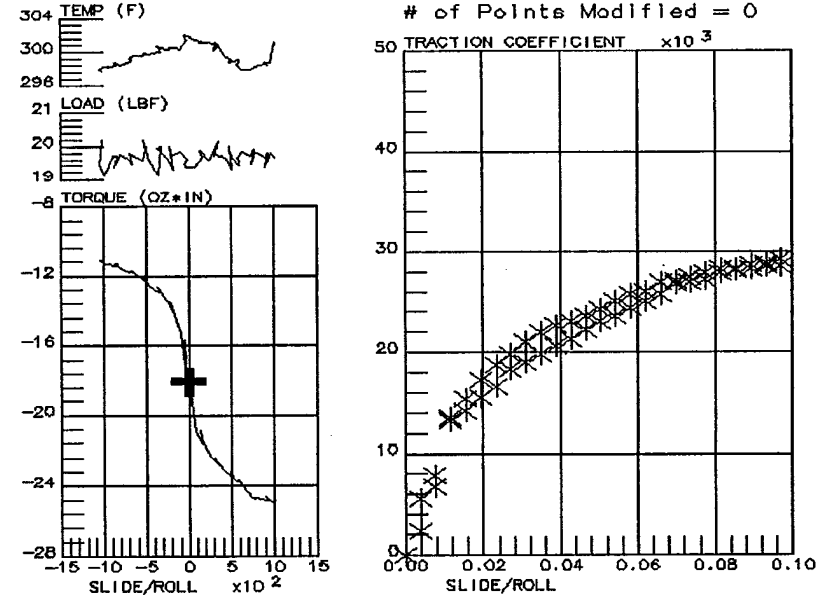
CO 90-715 ~220 Hatcol 3110 #250
300F 66LBF 5097RPM 4 FILE: co300vh



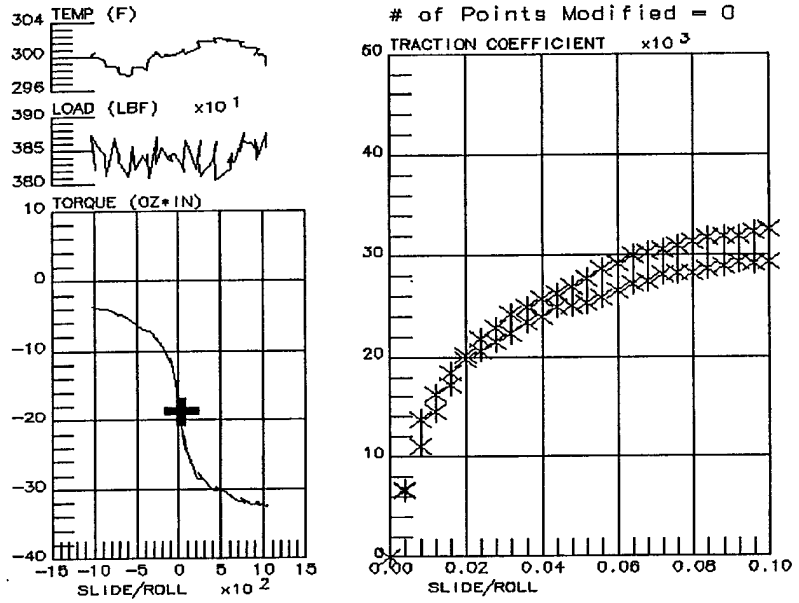
CO 90-715 ~220 Hatcol 3110 #251
300F 8LBF 7665RPM 5 FILE: co300vh



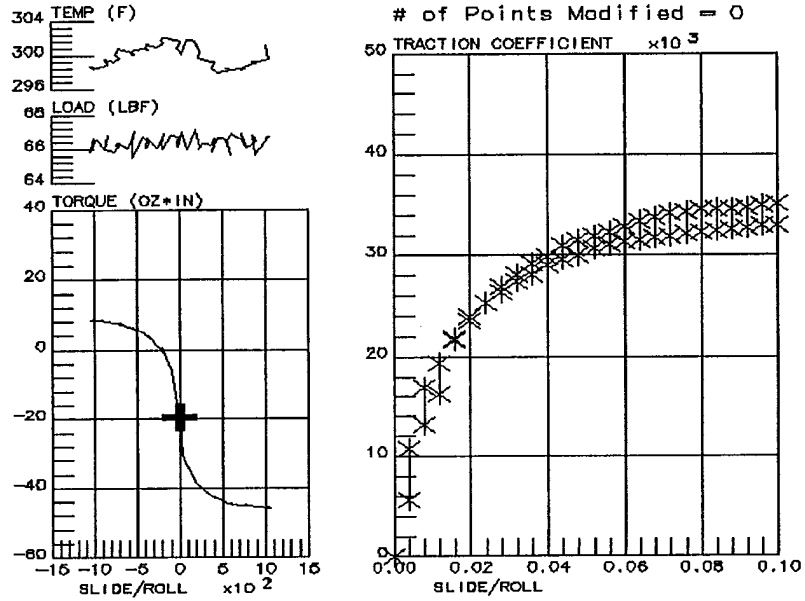
CO 90-715 ~220 Hatcol 3110 #252
300F 20LBF 7665RPM 6 FILE: co300vh



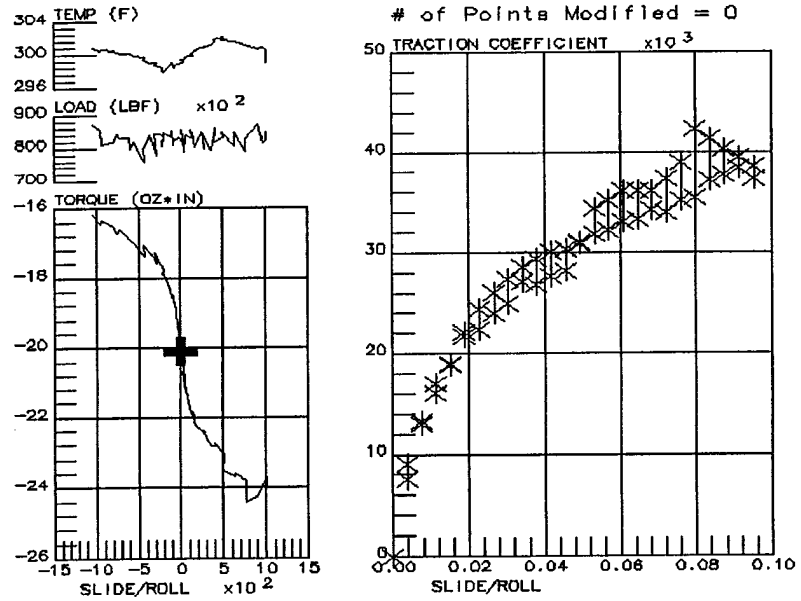
CO 90-715 ~220 Hatcol 3110 #253
300F 38LBF 7665RPM 7 FILE: co300vh



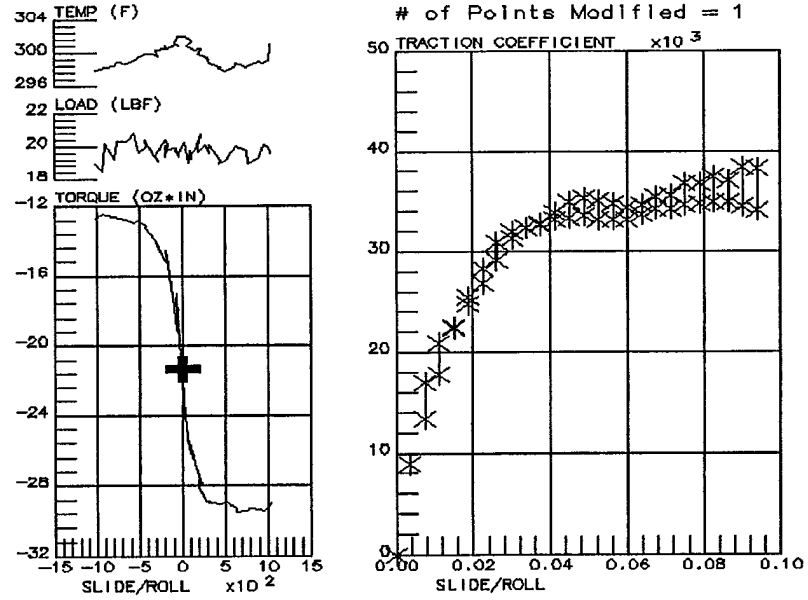
CO 90-715 ~220 Hatcol 3110 #254
300F 66LBF 7665RPM 8 FILE: co300vh



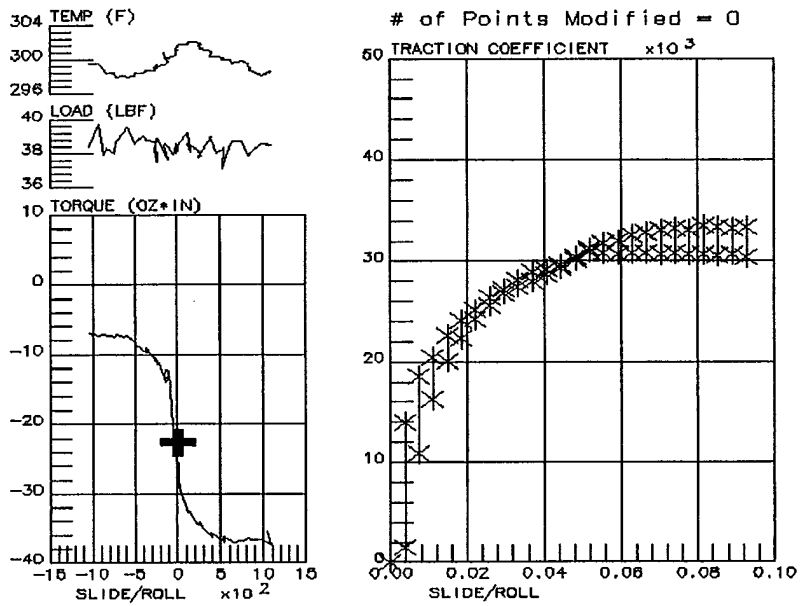
CO 90-715 ~220 Hatcol 3110 #255
300F 81LBF 10225RPM 9 FILE: co300vh



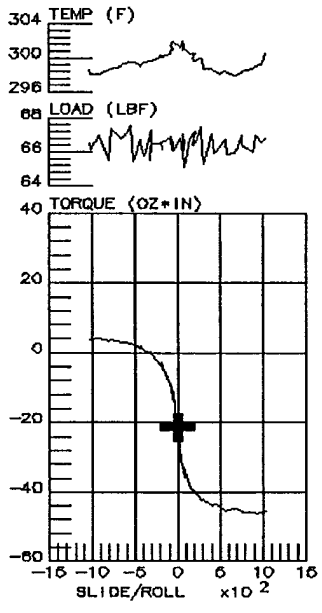
CO 90-715 ~220 Hatcol 3110 #256
300F 20LBF 10225RPM 10 FILE: co300vh

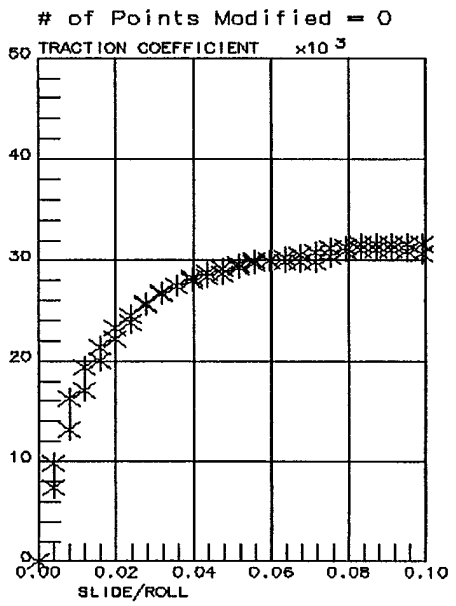


CO 90-715 ~220 Hatcol 3110 #257
300F 38LBF 10225RPM 11 FILE: co300vh



CO 90-715 ~220 Hatcol 3110 #258
300F 66LBF 10225RPM 12 FILE: co300vh

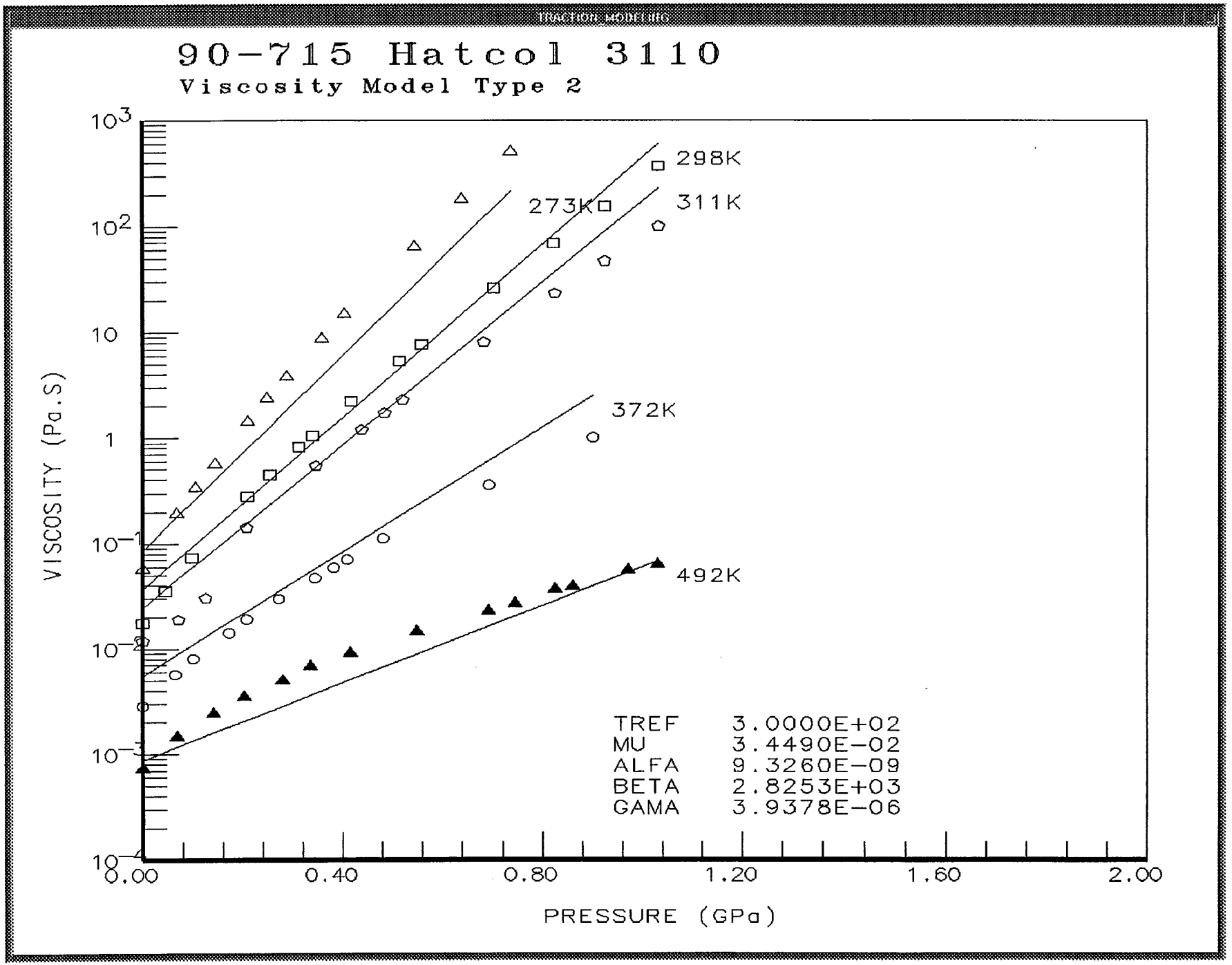




Lubricant name = CO 90-715 Hatcol 3110

NEWTONIAN MODEL TYPE 1

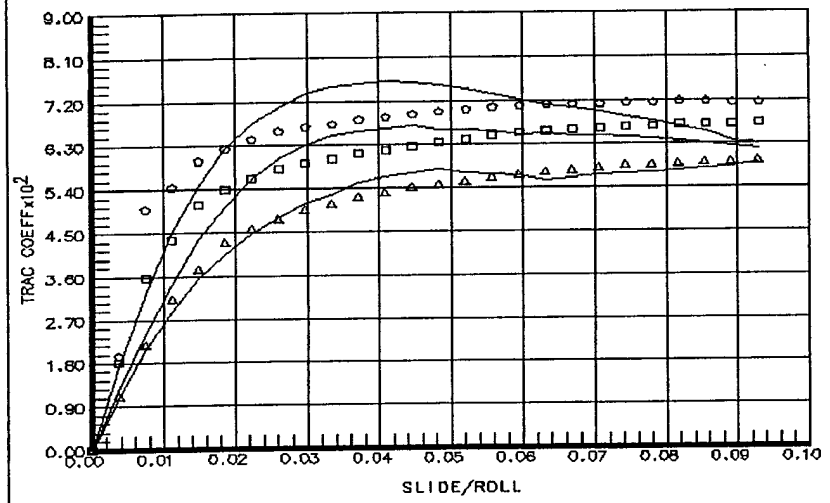
Dataset Name	Inlet Temp (K)	Roll Velocity (M/S)	XMU* (Pa.S)	ALFA* (1/Pa)	BETA* (1/K)
co1.dat	3.0000E+02	2.5132E+00	3.0499E+01	2.0000E-09	3.7136E-01
co2.dat	3.0000E+02	5.1019E+00	3.5329E+01	2.0000E-09	2.6356E-01
co3.dat	3.0000E+02	1.0134E+01	1.4174E+01	2.0000E-09	7.0992E-02
co4.dat	3.0000E+02	1.5240E+01	1.4034E+01	2.0000E-09	5.5788E-02
co5.dat	3.0000E+02	2.0330E+01	1.8954E+01	2.0000E-09	5.0089E-02
co7.dat	3.1111E+02	1.0134E+01	1.0747E+01	2.0000E-09	8.8362E-02
co8.dat	3.1111E+02	1.5240E+01	9.8080E+00	2.0000E-09	5.6376E-02
co9.dat	3.1111E+02	2.0330E+01	1.3670E+01	2.0000E-09	5.2434E-02
co12.dat	3.3889E+02	1.5240E+01	4.5498E+00	2.0000E-09	7.7064E-02
co13.dat	3.3889E+02	2.0330E+01	7.8723E+00	2.0000E-09	7.0225E-02
co15.dat	3.6667E+02	1.0134E+01	3.7456E+00	2.0000E-09	2.1373E-01
co17.dat	3.6667E+02	2.0330E+01	3.5092E+00	2.0000E-09	8.7032E-02
co20.dat	3.9444E+02	1.5240E+01	1.1735E+00	2.0000E-09	1.3496E-01
co24.dat	4.2222E+02	1.5240E+01	8.9781E-01	2.0000E-09	2.2666E-01
co25.dat	4.2222E+02	2.0330E+01	1.2060E+00	2.0000E-09	1.8619E-01


90-715 Hatcol 3110
Viscosity Model Type 2
VISCOSITY (Pa.S)
PRESSURE (GPa)
298K
273K
311K
372K
492K
TREF 3.0000E+02
MU 3.4490E-02
ALFA 9.3260E-09
BETA 2.8253E+03
GAMA 3.9378E-06
0.00
0.40
0.80
1.20
1.60
2.00

CO 90-715 ~220 Hatcol 3110

NEWTONIAN MODEL TYPE 1 co1.dat

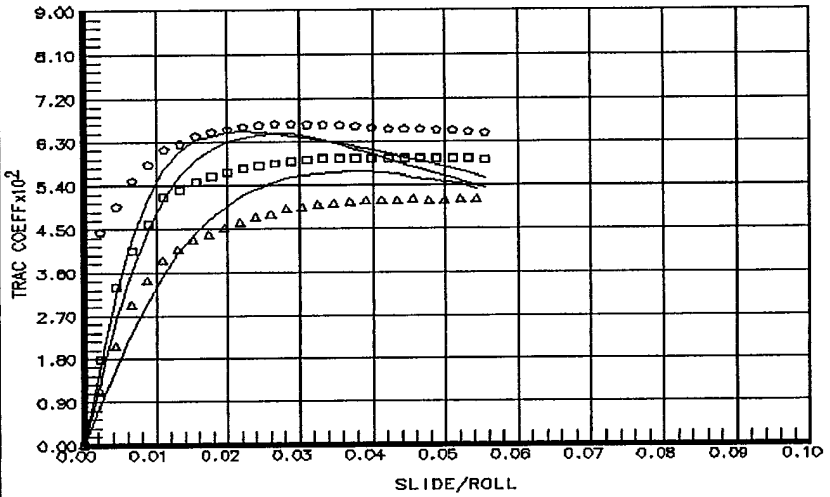
					XMU*	ALFA*	BETA*
△	1323MPA	89N	2.51M/S	300K # 26	3.050E+01	2.000E-09	3.714E-01
□	1654MPA	169N	2.51M/S	300K # 27	3.050E+01	2.000E-09	3.714E-01
○	1985MPA	294N	2.51M/S	300K # 28	3.050E+01	2.000E-09	3.714E-01



CO 90-715 ~220 Hatcol 3110

NEWTONIAN MODEL TYPE 1 co2.dat

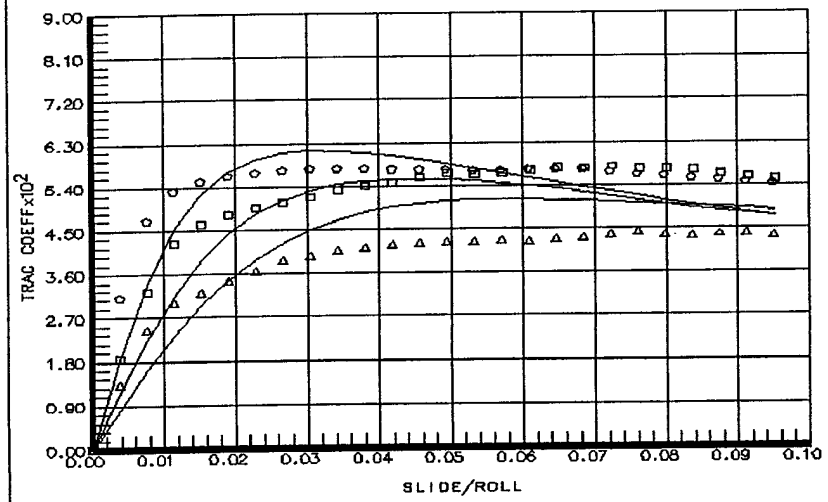
					XMU*	ALFA*	BETA*
△	1323MPA	89N	5.10M/S	300K # 14	3.533E+01	2.000E-09	2.636E-01
□	1655MPA	169N	5.10M/S	300K # 15	3.533E+01	2.000E-09	2.636E-01
○	1984MPA	294N	5.10M/S	300K # 16	3.533E+01	2.000E-09	2.636E-01



CO 90-715 ~220 Hatcol 3110

NEWTONIAN MODEL TYPE 1 co3.dat

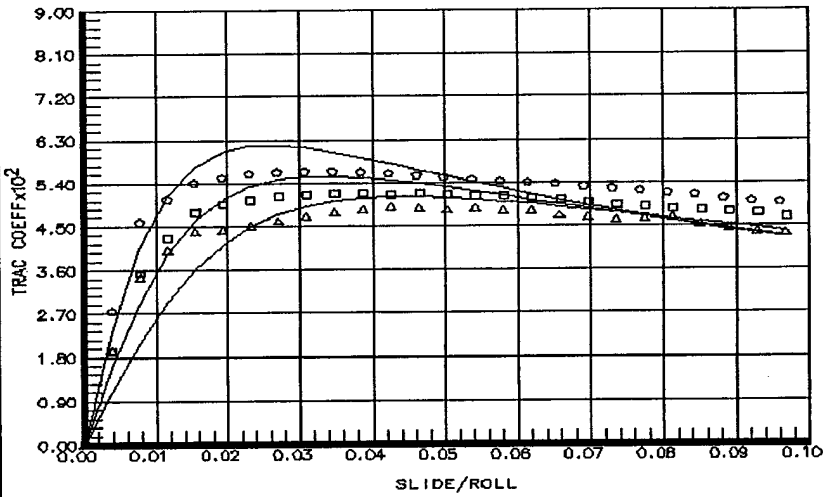
					XMU*	ALFA*	BETA*
△	1324MPA	89N	10.13M/S	300K # 34	1.417E+01	2.000E-09	7.099E-02
□	1655MPA	169N	10.13M/S	300K # 35	1.417E+01	2.000E-09	7.099E-02
○	1985MPA	294N	10.13M/S	300K # 36	1.417E+01	2.000E-09	7.099E-02



CO 90-715 ~220 Hatcol 3110

NEWTONIAN MODEL TYPE 1 co4.dat

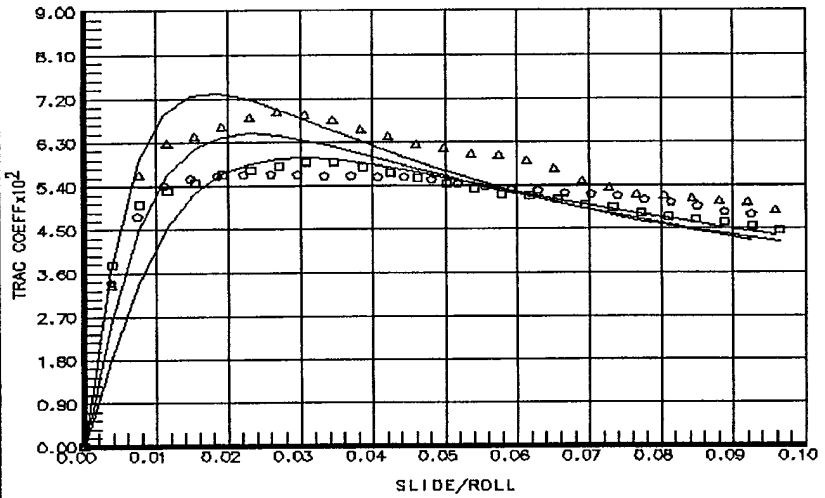
					XMU*	ALFA*	BETA*
△	1322MPA	89N	15.24M/S	300K # 38	1.403E+01	2.000E-09	5.579E-02
□	1655MPA	169N	15.24M/S	300K # 39	1.403E+01	2.000E-09	5.579E-02
○	1985MPA	294N	15.24M/S	300K # 40	1.403E+01	2.000E-09	5.579E-02



CO 90-715 ~220 Hatcol 3110

NEWTONIAN MODEL TYPE 1 co6.dat

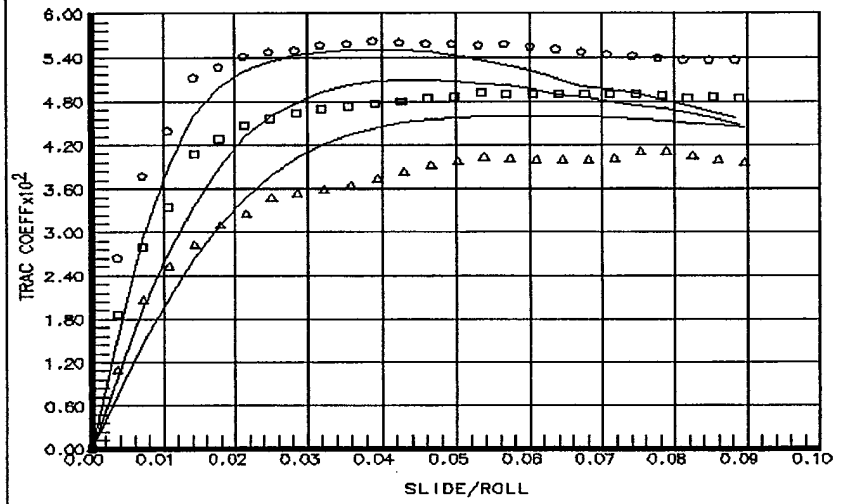
				XMU*	ALFA*	BETA*
△ 1323MPA	89N	20.33M/S 300K # 42	1.896E+01	2.000E-09	5.009E-02
□ 1654MPA	169N	20.33M/S 300K # 43	1.896E+01	2.000E-09	5.009E-02
○ 1985MPA	294N	20.33M/S 300K # 44	1.896E+01	2.000E-09	5.009E-02



CO 90-715 ~220 Hatcol 3110

NEWTONIAN MODEL TYPE 1 co7.dat

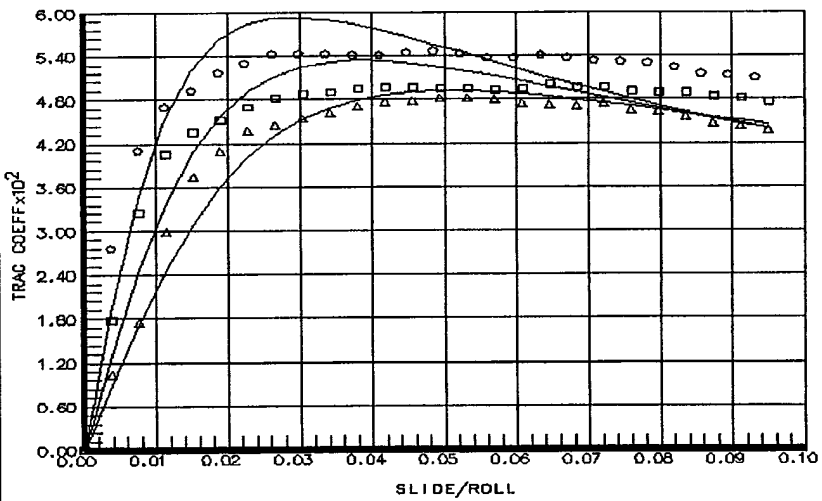
				XMU*	ALFA*	BETA*
△ 1325MPA	89N	10.13M/S 311K # 81	1.075E+01	2.000E-09	5.836E-02
□ 1654MPA	169N	10.13M/S 311K # 82	1.075E+01	2.000E-09	5.836E-02
○ 1985MPA	294N	10.13M/S 311K # 83	1.075E+01	2.000E-09	5.836E-02



CO 90-715 ~220 Hatcol 3110

NEWTONIAN MODEL TYPE 1 co8.dat

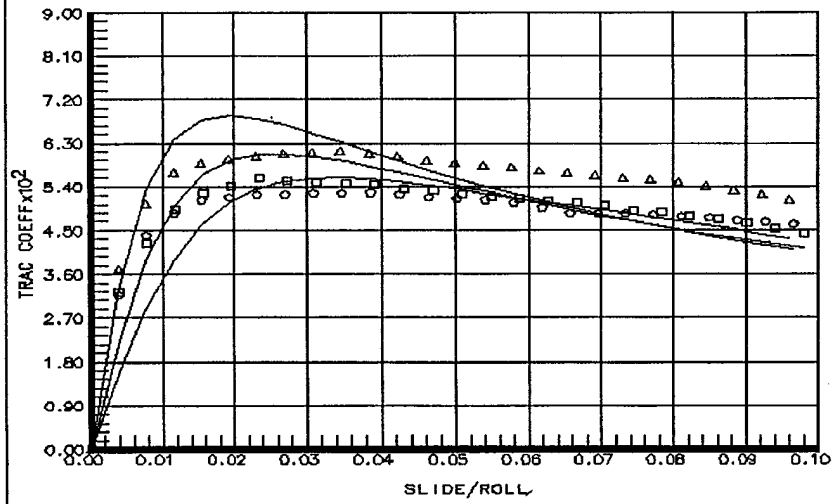
				XMU*	ALFA*	BETA*
△ 1323MPA	89N	15.24M/S 311K # 85	9.808E+00	2.000E-09	5.638E-02
□ 1654MPA	169N	15.24M/S 311K # 86	9.808E+00	2.000E-09	5.638E-02
○ 1985MPA	294N	15.24M/S 311K # 87	9.808E+00	2.000E-09	5.638E-02



CO 90-715 ~220 Hatcol 3110

NEWTONIAN MODEL TYPE 1 co9.dat

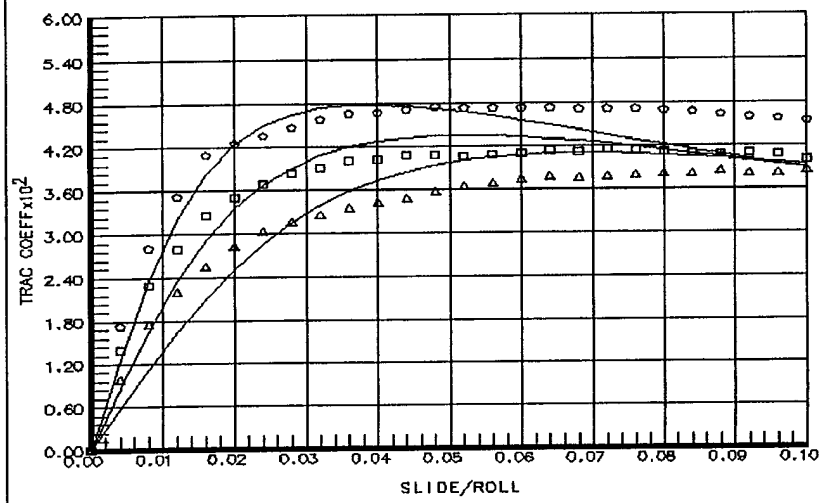
				XMU*	ALFA*	BETA*
△ 1323MPA	89N	20.33M/S 311K # 89	1.367E+01	2.000E-09	5.243E-02
□ 1657MPA	169N	20.33M/S 311K # 90	1.367E+01	2.000E-09	5.243E-02
○ 1985MPA	294N	20.33M/S 311K # 91	1.367E+01	2.000E-09	5.243E-02



CO 90-715 ~220 Hatcol 3110

NEWTONIAN MODEL TYPE 1 co12.dat

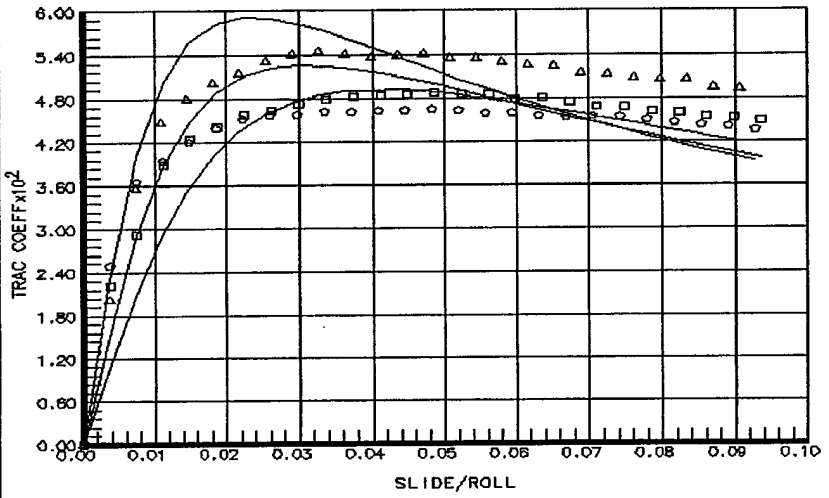
				XMU*	ALFA*	BETA*
△	1324MPA	89N	15.24M/S 339K #127	4.550E+00	2.000E-09	7.706E-02
□	1655MPA	169N	15.24M/S 339K #128	4.550E+00	2.000E-09	7.706E-02
○	1985MPA	294N	15.24M/S 339K #129	4.550E+00	2.000E-09	7.706E-02



CO 90-715 ~220 Hatcol 3110

NEWTONIAN MODEL TYPE 1 co13.dat

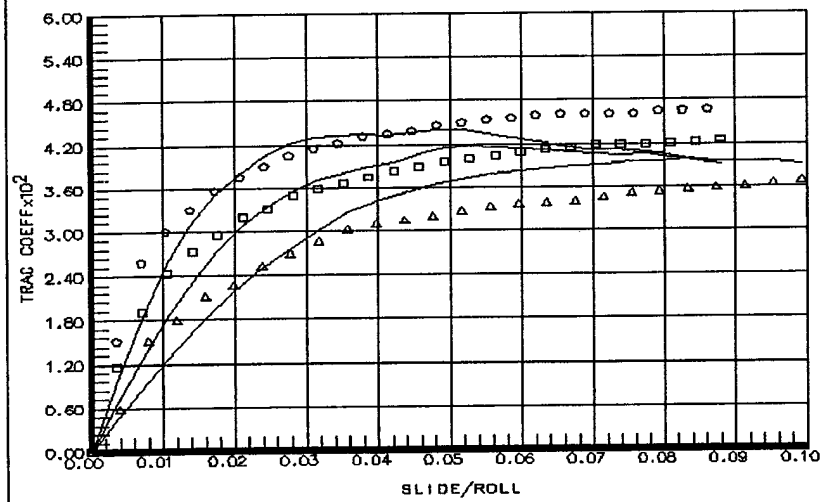
				XMU*	ALFA*	BETA*
△	1322MPA	89N	20.33M/S 339K #131	7.872E+00	2.000E-09	7.022E-02
□	1656MPA	169N	20.33M/S 339K #132	7.872E+00	2.000E-09	7.022E-02
○	1985MPA	294N	20.33M/S 339K #133	7.872E+00	2.000E-09	7.022E-02



CO 90-715 ~220 Hatcol 3110

NEWTONIAN MODEL TYPE 1 co16.dat

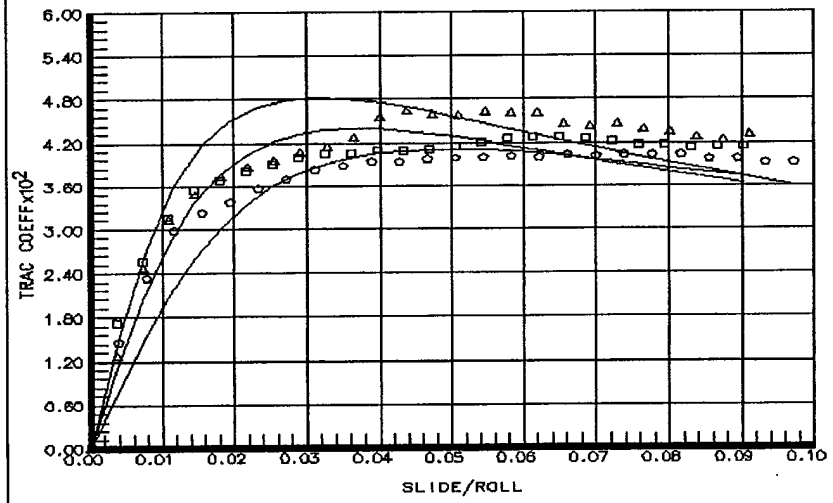
				XMU*	ALFA*	BETA*
△	1324MPA	89N	10.13M/S 367K #187	3.746E+00	2.000E-09	2.137E-01
□	1655MPA	169N	10.13M/S 367K #188	3.746E+00	2.000E-09	2.137E-01
○	1985MPA	294N	10.13M/S 367K #189	3.746E+00	2.000E-09	2.137E-01



CO 90-715 ~220 Hatcol 3110

NEWTONIAN MODEL TYPE 1 co17.dat

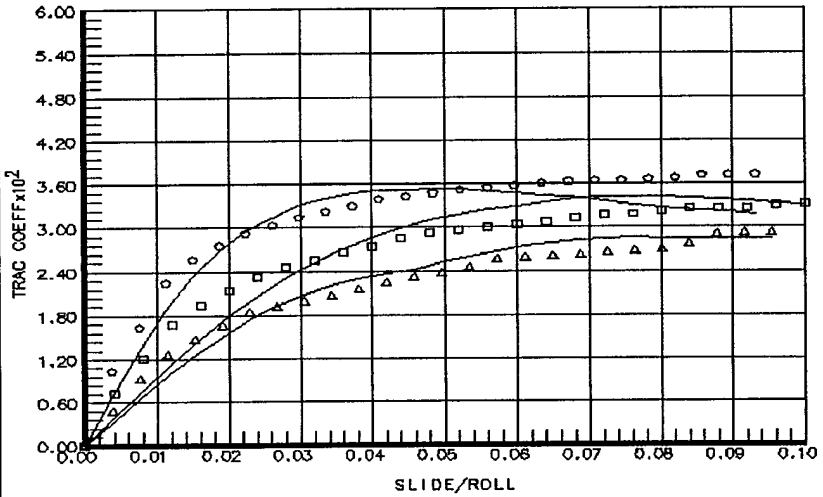
				XMU*	ALFA*	BETA*
△	1323MPA	89N	20.33M/S 367K #195	3.509E+00	2.000E-09	8.703E-02
□	1655MPA	169N	20.33M/S 367K #196	3.509E+00	2.000E-09	8.703E-02
○	1985MPA	294N	20.33M/S 367K #197	3.509E+00	2.000E-09	8.703E-02



CO 90-715 ~220 Hatcol 3110

NEWTONIAN MODEL TYPE 1 co20.dat

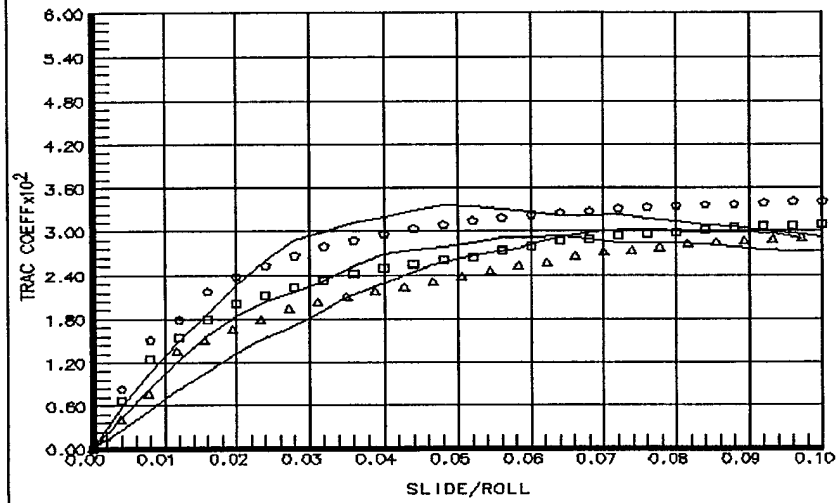
				XMU*	ALFA*	BETA*
△	1324MPA	89N	15.24M/S 394K #240	1.173E+00	2.000E-09	1.360E-01
□	1655MPA	169N	15.24M/S 394K #241	1.173E+00	2.000E-09	1.360E-01
○	1985MPA	294N	15.24M/S 394K #242	1.173E+00	2.000E-09	1.360E-01



CO 90-715 ~220 Hatcol 3110

NEWTONIAN MODEL TYPE 1 co24.dat

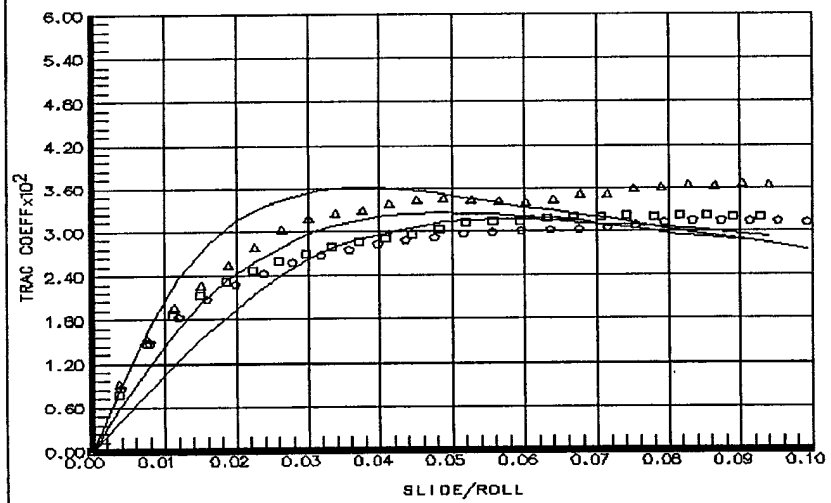
				XMU*	ALFA*	BETA*
△	1322MPA	89N	15.24M/S 422K #252	8.978E-01	2.000E-09	2.267E-01
□	1654MPA	169N	15.24M/S 422K #253	8.978E-01	2.000E-09	2.267E-01
○	1985MPA	294N	15.24M/S 422K #254	8.978E-01	2.000E-09	2.267E-01



CO 90-715 ~220 Hatcol 3110

NEWTONIAN MODEL TYPE 1 co25.dat

				XMU*	ALFA*	BETA*
△ □	1325MPA	89N	20.33M/S 422K #256	1.206E+00	2.000E-09	1.862E-01
□	1655MPA	169N	20.33M/S 422K #257	1.206E+00	2.000E-09	1.862E-01
○	1985MPA	294N	20.33M/S 422K #258	1.206E+00	2.000E-09	1.862E-01



12. Traction Data Set K: 90-715 Hatcol 3110/2

Data set name: CP 90-715 ~300 Hatcol 3110
Rolling radii [Disks 1 & 2] (in): 0.74 0.74
Crown radii [Disks 1 & 2] (in): 9.00 6.80

Number of data sets found = 232

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
1	80.00	7.74	290.00	330.00	310.00	30	0.71	1.49	1.00	1.00	1.00	2.43E-05	cp80l #1
2	80.00	18.39	290.00	330.00	310.00	30	0.71	1.49	1.00	1.00	1.00	1.97E-05	cp80l #2
3	80.00	35.93	290.00	330.00	310.00	25	0.71	1.49	1.00	1.00	1.00	1.84E-05	cp80l #3
4	80.00	62.05	290.00	330.00	310.00	28	0.71	1.49	1.00	1.00	1.00	7.35E-05	cp80l #4
5	80.00	98.62	290.00	330.00	310.00	28	0.71	1.49	1.00	1.00	1.00	2.38E-05	cp80l #5
6	80.00	7.74	620.00	700.00	660.00	30	0.71	1.49	1.00	1.00	1.00	7.87E-06	cp80l #6
7	80.00	18.39	620.00	700.00	660.00	30	0.71	1.49	1.00	1.00	1.00	3.37E-06	cp80l #7
8	80.00	35.93	620.00	700.00	660.00	30	0.71	1.49	1.00	1.00	1.00	6.19E-05	cp80l #8
9	80.00	62.05	620.00	700.00	660.00	30	0.71	1.49	1.00	1.00	1.00	6.44E-05	cp80l #9
10	80.00	98.62	620.00	700.00	660.00	30	0.71	1.49	1.00	1.00	1.00	2.55E-04	cp80l #10
11	80.00	7.74	1215.00	1345.00	1280.00	27	0.71	1.49	1.00	1.00	1.00	1.08E-05	cp80l #11
12	80.00	18.39	1215.00	1345.00	1280.00	28	0.71	1.49	1.00	1.00	1.00	9.60E-06	cp80l #12
13	80.00	35.93	1215.00	1345.00	1280.00	29	0.71	1.49	1.00	1.00	1.00	4.63E-06	cp80l #13
14	80.00	62.05	1215.00	1345.00	1280.00	29	0.71	1.49	1.00	1.00	1.00	4.32E-05	cp80l #14
15	80.00	98.62	1215.00	1345.00	1280.00	26	0.71	1.49	1.00	1.00	1.00	1.21E-05	cp80l #15
16	80.00	147.11	290.00	330.00	310.00	29	0.71	1.49	1.00	1.00	1.00	9.32E-05	cp80lx #1
17	80.00	147.11	620.00	700.00	660.00	30	0.71	1.49	1.00	1.00	1.00	2.12E-04	cp80lx #2
18	80.00	147.11	1215.00	1345.00	1280.00	30	0.71	1.49	1.00	1.00	1.00	2.12E-04	cp80lx #3
19	80.00	7.74	2470.00	2735.00	2602.50	46	0.71	1.49	1.00	1.00	1.00	2.19E-05	cp80m #1
20	80.00	18.39	2470.00	2735.00	2602.50	46	0.71	1.49	1.00	1.00	1.00	1.30E-05	cp80m #2
21	80.00	35.93	2470.00	2735.00	2602.50	47	0.71	1.49	1.00	1.00	1.00	1.04E-05	cp80m #3
22	80.00	62.05	2470.00	2735.00	2602.50	50	0.71	1.49	1.00	1.00	1.00	1.49E-05	cp80m #4
23	80.00	98.62	2470.00	2735.00	2602.50	48	0.71	1.49	1.00	1.00	1.00	1.04E-05	cp80m #5
24	80.00	7.74	4900.00	5430.00	5165.00	48	0.71	1.49	1.00	1.00	1.00	8.14E-05	cp80m #6
25	80.00	18.39	4900.00	5430.00	5165.00	49	0.71	1.49	1.00	1.00	1.00	7.31E-06	cp80m #7
26	80.00	35.93	4900.00	5430.00	5165.00	49	0.71	1.49	1.00	1.00	1.00	2.94E-05	cp80m #8
27	80.00	62.05	4900.00	5430.00	5165.00	48	0.71	1.49	1.00	1.00	1.00	2.14E-05	cp80m #9
28	80.00	98.62	4900.00	5430.00	5165.00	50	0.71	1.49	1.00	1.00	1.00	2.65E-05	cp80m #10
29	80.00	147.11	2470.00	2735.00	2602.50	46	0.71	1.49	1.00	1.00	1.00	3.45E-05	cp80mx #1
30	80.00	147.11	4900.00	5430.00	5165.00	47	0.71	1.49	1.00	1.00	1.00	2.45E-05	cp80mx #2
31	80.00	18.39	7370.00	8170.00	7770.00	47	0.71	1.49	1.00	1.00	1.00	6.12E-05	cp80h #1
32	80.00	35.93	7370.00	8170.00	7770.00	43	0.71	1.49	1.00	1.00	1.00	5.94E-06	cp80h #2
33	80.00	62.05	7370.00	8170.00	7770.00	46	0.71	1.49	1.00	1.00	1.00	1.76E-05	cp80h #3
34	80.00	98.62	7370.00	8170.00	7770.00	50	0.71	1.49	1.00	1.00	1.00	8.33E-06	cp80h #4
35	80.00	18.39	9860.00	10880.00	10370.00	49	0.71	1.49	1.00	1.00	1.00	6.87E-05	cp80h #5
36	80.00	35.93	9860.00	10880.00	10370.00	48	0.71	1.49	1.00	1.00	1.00	1.43E-04	cp80h #6
37	80.00	62.05	9860.00	10880.00	10370.00	49	0.71	1.49	1.00	1.00	1.00	4.05E-05	cp80h #7
38	80.00	98.62	9860.00	10880.00	10370.00	50	0.71	1.49	1.00	1.00	1.00	6.69E-05	cp80h #8
39	80.00	18.39	7370.00	8170.00	7770.00	6	0.71	1.49	1.00	1.00	1.00	1.18E-05	cp80hxx #1
40	80.00	35.93	7370.00	8170.00	7770.00	43	0.71	1.49	1.00	1.00	1.00	5.94E-06	cp80hxx #2
41	80.00	62.05	7370.00	8170.00	7770.00	3	0.71	1.49	1.00	1.00	1.00	7.96E-05	cp80hxx #3
42	80.00	18.39	9860.00	10880.00	10370.00	18	0.71	1.49	1.00	1.00	1.00	9.76E-03	cp80hxx #5
43	100.00	7.74	290.00	330.00	310.00	28	0.71	1.49	1.00	1.00	1.00	1.31E-04	cp100l #1
44	100.00	18.39	290.00	330.00	310.00	30	0.71	1.49	1.00	1.00	1.00	1.25E-05	cp100l #2
45	100.00	35.93	290.00	330.00	310.00	29	0.71	1.49	1.00	1.00	1.00	2.70E-05	cp100l #3
46	100.00	62.05	290.00	330.00	310.00	28	0.71	1.49	1.00	1.00	1.00	7.55E-05	cp100l #4
47	100.00	98.62	290.00	330.00	310.00	29	0.71	1.49	1.00	1.00	1.00	1.13E-04	cp100l #5
48	100.00	7.74	620.00	700.00	660.00	29	0.71	1.49	1.00	1.00	1.00	1.78E-05	cp100l #6
49	100.00	18.39	620.00	700.00	660.00	29	0.71	1.49	1.00	1.00	1.00	1.83E-06	cp100l #7
50	100.00	35.93	620.00	700.00	660.00	30	0.71	1.49	1.00	1.00	1.00	7.76E-06	cp100l #8

Data set: CP 90-715 ~300 Hatcol 3110 ....continued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
51	100.00	62.05	620.00	700.00	660.00	30	0.71	1.49	1.00	1.00	1.00	9.05E-06	cp100l #9
52	100.00	98.62	620.00	700.00	660.00	30	0.71	1.49	1.00	1.00	1.00	1.00E-05	cp100l #10
53	100.00	7.74	1215.00	1345.00	1280.00	30	0.71	1.49	1.00	1.00	1.00	1.12E-05	cp100l #11
54	100.00	18.39	1215.00	1345.00	1280.00	29	0.71	1.49	1.00	1.00	1.00	1.29E-06	cp100l #12
55	100.00	35.93	1215.00	1345.00	1280.00	30	0.71	1.49	1.00	1.00	1.00	2.10E-06	cp100l #13
56	100.00	62.05	1215.00	1345.00	1280.00	30	0.71	1.49	1.00	1.00	1.00	7.14E-06	cp100l #14
57	100.00	98.62	1215.00	1345.00	1280.00	30	0.71	1.49	1.00	1.00	1.00	1.29E-05	cp100l #15
58	100.00	147.11	290.00	330.00	310.00	29	0.71	1.49	1.00	1.00	1.00	7.32E-04	cp100lx #1
59	100.00	147.11	620.00	700.00	660.00	30	0.71	1.49	1.00	1.00	1.00	3.12E-05	cp100lx #2
60	100.00	147.11	1215.00	1345.00	1280.00	30	0.71	1.49	1.00	1.00	1.00	6.94E-05	cp100lx #3
61	100.00	7.74	2470.00	2735.00	2602.50	48	0.71	1.49	1.00	1.00	1.00	7.55E-05	cp100m #1
62	100.00	18.39	2470.00	2735.00	2602.50	46	0.71	1.49	1.00	1.00	1.00	2.47E-05	cp100m #2
63	100.00	35.93	2470.00	2735.00	2602.50	48	0.71	1.49	1.00	1.00	1.00	5.83E-06	cp100m #3
64	100.00	62.05	2470.00	2735.00	2602.50	48	0.71	1.49	1.00	1.00	1.00	1.87E-05	cp100m #4
65	100.00	98.62	2470.00	2735.00	2602.50	48	0.71	1.49	1.00	1.00	1.00	1.07E-05	cp100m #5
66	100.00	7.74	4900.00	5430.00	5165.00	49	0.71	1.49	1.00	1.00	1.00	9.69E-04	cp100m #6
67	100.00	18.39	4900.00	5430.00	5165.00	48	0.71	1.49	1.00	1.00	1.00	7.23E-05	cp100m #7
68	100.00	35.93	4900.00	5430.00	5165.00	49	0.71	1.49	1.00	1.00	1.00	4.32E-06	cp100m #8
69	100.00	62.05	4900.00	5430.00	5165.00	49	0.71	1.49	1.00	1.00	1.00	8.23E-06	cp100m #9
70	100.00	98.62	4900.00	5430.00	5165.00	50	0.71	1.49	1.00	1.00	1.00	7.40E-06	cp100m #10
71	100.00	147.11	2470.00	2735.00	2602.50	48	0.71	1.49	1.00	1.00	1.00	1.41E-05	cp100mx #1
72	100.00	147.11	4900.00	5430.00	5165.00	47	0.71	1.49	1.00	1.00	1.00	3.85E-05	cp100mx #2
73	100.00	18.39	7370.00	8170.00	7770.00	46	0.71	1.49	1.00	1.00	1.00	3.59E-05	cp100h #1
74	100.00	35.93	7370.00	8170.00	7770.00	46	0.71	1.49	1.00	1.00	1.00	5.54E-05	cp100h #2
75	100.00	62.05	7370.00	8170.00	7770.00	48	0.71	1.49	1.00	1.00	1.00	1.46E-06	cp100h #3
76	100.00	98.62	7370.00	8170.00	7770.00	45	0.71	1.49	1.00	1.00	1.00	4.90E-05	cp100h #4
77	100.00	18.39	9860.00	10880.00	10370.00	48	0.71	1.49	1.00	1.00	1.00	2.62E-05	cp100h #5
78	100.00	35.93	9860.00	10880.00	10370.00	48	0.71	1.49	1.00	1.00	1.00	5.75E-05	cp100h #6
79	100.00	62.05	9860.00	10880.00	10370.00	50	0.71	1.49	1.00	1.00	1.00	2.85E-05	cp100h #7
80	100.00	98.62	9860.00	10880.00	10370.00	47	0.71	1.49	1.00	1.00	1.00	1.09E-05	cp100h #8
81	100.00	18.39	7370.00	8170.00	7770.00	45	0.71	1.49	1.00	1.00	1.00	3.13E-05	cp100hxx #1
82	100.00	35.93	7370.00	8170.00	7770.00	42	0.71	1.49	1.00	1.00	1.00	2.52E-05	cp100hxx #2
83	100.00	62.05	7370.00	8170.00	7770.00	46	0.71	1.49	1.00	1.00	1.00	2.45E-06	cp100hxx #3
84	100.00	98.62	7370.00	8170.00	7770.00	46	0.71	1.49	1.00	1.00	1.00	9.85E-06	cp100hxx #4
85	100.00	18.39	8170.00	7370.00	7770.00	50	0.71	1.49	1.00	1.00	1.00	9.29E-05	cp100hxx #5
86	100.00	35.93	8170.00	7370.00	7770.00	50	0.71	1.49	1.00	1.00	1.00	1.10E-05	cp100hxx #6
87	100.00	62.05	8170.00	7370.00	7770.00	50	0.71	1.49	1.00	1.00	1.00	9.28E-06	cp100hxx #7
88	100.00	98.62	8170.00	7370.00	7770.00	50	0.71	1.49	1.00	1.00	1.00	9.31E-06	cp100hxx #8
89	100.00	18.39	9860.00	10880.00	10370.00	46	0.71	1.49	1.00	1.00	1.00	1.77E-04	cp100hxx #9
90	100.00	35.93	9860.00	10880.00	10370.00	42	0.71	1.49	1.00	1.00	1.00	1.56E-04	cp100hxx #10
91	100.00	62.05	9860.00	10880.00	10370.00	46	0.71	1.49	1.00	1.00	1.00	9.72E-06	cp100hxx #11
92	100.00	98.62	9860.00	10880.00	10370.00	48	0.71	1.49	1.00	1.00	1.00	3.20E-05	cp100hxx #12
93	100.00	18.39	10880.00	9860.00	10370.00	50	0.71	1.49	1.00	1.00	1.00	3.43E-05	cp100hxx #13
94	100.00	35.93	10880.00	9860.00	10370.00	50	0.71	1.49	1.00	1.00	1.00	2.34E-04	cp100hxx #14
95	100.00	62.05	10880.00	9860.00	10370.00	50	0.71	1.49	1.00	1.00	1.00	6.52E-06	cp100hxx #15
96	100.00	98.62	10880.00	9860.00	10370.00	50	0.71	1.49	1.00	1.00	1.00	3.65E-05	cp100hxx #16
97	150.00	18.39	290.00	330.00	310.00	30	0.71	1.49	1.00	1.00	1.00	1.09E-05	cp150l #1
98	150.00	35.93	290.00	330.00	310.00	29	0.71	1.49	1.00	1.00	1.00	2.76E-05	cp150l #2
99	150.00	62.05	290.00	330.00	310.00	29	0.71	1.49	1.00	1.00	1.00	4.24E-05	cp150l #3
100	150.00	98.62	290.00	330.00	310.00	28	0.71	1.49	1.00	1.00	1.00	1.28E-04	cp150l #4
101	150.00	18.39	620.00	700.00	660.00	29	0.71	1.49	1.00	1.00	1.00	1.44E-05	cp150l #5
102	150.00	35.93	620.00	700.00	660.00	30	0.71	1.49	1.00	1.00	1.00	5.94E-06	cp150l #6
103	150.00	62.05	620.00	700.00	660.00	30	0.71	1.49	1.00	1.00	1.00	6.84E-06	cp150l #7
104	150.00	98.62	620.00	700.00	660.00	30	0.71	1.49	1.00	1.00	1.00	1.17E-05	cp150l #8
105	150.00	18.39	1215.00	1345.00	1280.00	30	0.71	1.49	1.00	1.00	1.00	7.22E-06	cp150l #9
106	150.00	35.93	1215.00	1345.00	1280.00	29	0.71	1.49	1.00	1.00	1.00	5.77E-07	cp150l #10
107	150.00	62.05	1215.00	1345.00	1280.00	30	0.71	1.49	1.00	1.00	1.00	1.54E-05	cp150l #11
108	150.00	98.62	1215.00	1345.00	1280.00	29	0.71	1.49	1.00	1.00	1.00	7.01E-05	cp150l #12
109	150.00	147.11	290.00	330.00	310.00	30	0.71	1.49	1.00	1.00	1.00	1.12E-04	cp150lx #1
110	150.00	147.11	620.00	700.00	660.00	29	0.71	1.49	1.00	1.00	1.00	1.17E-05	cp150lx #2
111	150.00	147.11	1215.00	1345.00	1280.00	29	0.71	1.49	1.00	1.00	1.00	4.83E-06	cp150lx #3
112	150.00	18.39	2470.00	2735.00	2602.50	49	0.71	1.49	1.00	1.00	1.00	1.28E-05	cp150m #1
113	150.00	35.93	2470.00	2735.00	2602.50	47	0.71	1.49	1.00	1.00	1.00	1.09E-06	cp150m #2
114	150.00	62.05	2470.00	2735.00	2602.50	47	0.71	1.49	1.00	1.00	1.00	2.18E-05	cp150m #3
115	150.00	98.62	2470.00	2735.00	2602.50	47	0.71	1.49	1.00	1.00	1.00	5.64E-06	cp150m #4
116	150.00	18.39	4900.00	5430.00	5165.00	49	0.71	1.49	1.00	1.00	1.00	2.54E-05	cp150m #5
117	150.00	35.93	4900.00	5430.00	5165.00	50	0.71	1.49	1.00	1.00	1.00	2.63E-06	cp150m #6
118	150.00	62.05	4900.00	5430.00	5165.00	48	0.71	1.49	1.00	1.00	1.00	3.20E-06	cp150m #7
119	150.00	98.62	4900.00	5430.00	5165.00	49	0.71	1.49	1.00	1.00	1.00	4.18E-06	cp150m #8
120	150.00	147.11	2470.00	2735.00	2602.50	48	0.71	1.49	1.00	1.00	1.00	4.42E-05	cp150mx #1

Data set: CP 90-715 ~300 Hatcol 3110 ....continued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
121	150.00	147.11	4900.00	5430.00	5165.00	48	0.71	1.49	1.00	1.00	1.00	5.63E-05	cp150mx #2
122	150.00	18.39	7370.00	8170.00	7770.00	45	0.71	1.49	1.00	1.00	1.00	3.00E-05	cp150h #1
123	150.00	35.93	7370.00	8170.00	7770.00	45	0.71	1.49	1.00	1.00	1.00	4.27E-05	cp150h #2
124	150.00	62.05	7370.00	8170.00	7770.00	45	0.71	1.49	1.00	1.00	1.00	2.99E-06	cp150h #3
125	150.00	98.62	7370.00	8170.00	7770.00	47	0.71	1.49	1.00	1.00	1.00	4.46E-06	cp150h #4
126	150.00	18.39	9860.00	10880.00	10370.00	49	0.71	1.49	1.00	1.00	1.00	6.03E-05	cp150h #5
127	150.00	35.93	9860.00	10880.00	10370.00	50	0.71	1.49	1.00	1.00	1.00	1.41E-04	cp150h #6
128	150.00	62.05	9860.00	10880.00	10370.00	48	0.71	1.49	1.00	1.00	1.00	9.96E-06	cp150h #7
129	150.00	98.62	9860.00	10880.00	10370.00	49	0.71	1.49	1.00	1.00	1.00	4.19E-06	cp150h #8
130	200.00	18.39	290.00	330.00	310.00	29	0.71	1.49	1.00	1.00	1.00	4.85E-05	cp200l #1
131	200.00	35.93	290.00	330.00	310.00	28	0.71	1.49	1.00	1.00	1.00	6.58E-05	cp200l #2
132	200.00	62.05	290.00	330.00	310.00	30	0.71	1.49	1.00	1.00	1.00	1.05E-04	cp200l #3
133	200.00	98.62	290.00	330.00	310.00	28	0.71	1.49	1.00	1.00	1.00	2.51E-04	cp200l #4
134	200.00	18.39	620.00	700.00	660.00	30	0.71	1.49	1.00	1.00	1.00	2.87E-05	cp200l #5
135	200.00	35.93	620.00	700.00	660.00	29	0.71	1.49	1.00	1.00	1.00	1.26E-05	cp200l #6
136	200.00	62.05	620.00	700.00	660.00	30	0.71	1.49	1.00	1.00	1.00	4.15E-05	cp200l #7
137	200.00	98.62	620.00	700.00	660.00	30	0.71	1.49	1.00	1.00	1.00	9.94E-06	cp200l #8
138	200.00	18.39	1215.00	1345.00	1280.00	30	0.71	1.49	1.00	1.00	1.00	5.10E-06	cp200l #9
139	200.00	35.93	1215.00	1345.00	1280.00	30	0.71	1.49	1.00	1.00	1.00	5.07E-06	cp200l #10
140	200.00	62.05	1215.00	1345.00	1280.00	30	0.71	1.49	1.00	1.00	1.00	6.22E-07	cp200l #11
141	200.00	98.62	1215.00	1345.00	1280.00	30	0.71	1.49	1.00	1.00	1.00	2.61E-05	cp200l #12
142	200.00	147.11	290.00	330.00	310.00	30	0.71	1.49	1.00	1.00	1.00	4.84E-05	cp200lx #1
143	200.00	147.11	620.00	700.00	660.00	30	0.71	1.49	1.00	1.00	1.00	4.55E-06	cp200lx #2
144	200.00	147.11	1215.00	1345.00	1280.00	30	0.71	1.49	1.00	1.00	1.00	1.78E-05	cp200lx #3
145	200.00	18.39	2470.00	2735.00	2602.50	47	0.71	1.49	1.00	1.00	1.00	1.69E-05	cp200m #1
146	200.00	35.93	2470.00	2735.00	2602.50	48	0.71	1.49	1.00	1.00	1.00	2.87E-06	cp200m #2
147	200.00	62.05	2470.00	2735.00	2602.50	47	0.71	1.49	1.00	1.00	1.00	3.54E-06	cp200m #3
148	200.00	98.62	2470.00	2735.00	2602.50	50	0.71	1.49	1.00	1.00	1.00	2.31E-06	cp200m #4
149	200.00	18.39	4900.00	5430.00	5165.00	48	0.71	1.49	1.00	1.00	1.00	3.38E-05	cp200m #5
150	200.00	35.93	4900.00	5430.00	5165.00	50	0.71	1.49	1.00	1.00	1.00	1.32E-05	cp200m #6
151	200.00	62.05	4900.00	5430.00	5165.00	50	0.71	1.49	1.00	1.00	1.00	3.20E-06	cp200m #7
152	200.00	98.62	4900.00	5430.00	5165.00	50	0.71	1.49	1.00	1.00	1.00	1.33E-05	cp200m #8
153	200.00	147.11	2470.00	2735.00	2602.50	47	0.71	1.49	1.00	1.00	1.00	1.04E-05	cp200mx #1
154	200.00	147.11	4900.00	5430.00	5165.00	50	0.71	1.49	1.00	1.00	1.00	3.08E-05	cp200mx #2
155	200.00	18.39	7370.00	8170.00	7770.00	41	0.71	1.49	1.00	1.00	1.00	9.11E-06	cp200h #1
156	200.00	35.93	7370.00	8170.00	7770.00	45	0.71	1.49	1.00	1.00	1.00	1.20E-05	cp200h #2
157	200.00	62.05	7370.00	8170.00	7770.00	44	0.71	1.49	1.00	1.00	1.00	3.56E-06	cp200h #3
158	200.00	98.62	7370.00	8170.00	7770.00	47	0.71	1.49	1.00	1.00	1.00	4.16E-07	cp200h #4
159	200.00	18.39	9860.00	10880.00	10370.00	46	0.71	1.49	1.00	1.00	1.00	1.97E-04	cp200h #5
160	200.00	35.93	9860.00	10880.00	10370.00	48	0.71	1.49	1.00	1.00	1.00	7.84E-05	cp200h #6
161	200.00	62.05	9860.00	10880.00	10370.00	48	0.71	1.49	1.00	1.00	1.00	2.24E-05	cp200h #7
162	200.00	98.62	9860.00	10880.00	10370.00	47	0.71	1.49	1.00	1.00	1.00	7.11E-06	cp200h #8
163	250.00	18.39	290.00	330.00	310.00	26	0.71	1.49	1.00	1.00	1.00	6.21E-04	cp250l #1
164	250.00	35.93	290.00	330.00	310.00	25	0.71	1.49	1.00	1.00	1.00	3.92E-04	cp250l #2
165	250.00	62.05	290.00	330.00	310.00	26	0.71	1.49	1.00	1.00	1.00	1.81E-04	cp250l #3
166	250.00	98.62	290.00	330.00	310.00	27	0.71	1.49	1.00	1.00	1.00	1.69E-03	cp250l #4
167	250.00	147.11	290.00	330.00	310.00	30	0.71	1.49	1.00	1.00	1.00	2.63E-03	cp250l #5
168	250.00	18.39	620.00	700.00	660.00	27	0.71	1.49	1.00	1.00	1.00	1.80E-05	cp250l #6
169	250.00	35.93	620.00	700.00	660.00	30	0.71	1.49	1.00	1.00	1.00	2.55E-04	cp250l #7
170	250.00	62.05	620.00	700.00	660.00	29	0.71	1.49	1.00	1.00	1.00	8.68E-05	cp250l #8
171	250.00	98.62	620.00	700.00	660.00	30	0.71	1.49	1.00	1.00	1.00	4.64E-05	cp250l #9
172	250.00	147.11	620.00	700.00	660.00	30	0.71	1.49	1.00	1.00	1.00	5.58E-05	cp250l #10
173	250.00	18.39	1215.00	1345.00	1280.00	30	0.71	1.49	1.00	1.00	1.00	2.60E-06	cp250l #11
174	250.00	35.93	1215.00	1345.00	1280.00	30	0.71	1.49	1.00	1.00	1.00	6.26E-06	cp250l #12
175	250.00	62.05	1215.00	1345.00	1280.00	30	0.71	1.49	1.00	1.00	1.00	7.88E-06	cp250l #13
176	250.00	98.62	1215.00	1345.00	1280.00	29	0.71	1.49	1.00	1.00	1.00	2.02E-05	cp250l #14
177	250.00	147.11	1215.00	1345.00	1280.00	30	0.71	1.49	1.00	1.00	1.00	5.51E-05	cp250l #15
178	250.00	18.39	2470.00	2735.00	2602.50	48	0.71	1.49	1.00	1.00	1.00	2.05E-06	cp250m #1
179	250.00	35.93	2470.00	2735.00	2602.50	49	0.71	1.49	1.00	1.00	1.00	4.16E-06	cp250m #2
180	250.00	62.05	2470.00	2735.00	2602.50	46	0.71	1.49	1.00	1.00	1.00	3.32E-06	cp250m #3
181	250.00	98.62	2470.00	2735.00	2602.50	48	0.71	1.49	1.00	1.00	1.00	1.49E-05	cp250m #4
182	250.00	147.11	2470.00	2735.00	2602.50	47	0.71	1.49	1.00	1.00	1.00	3.81E-06	cp250m #5
183	250.00	18.39	4900.00	5430.00	5165.00	48	0.71	1.49	1.00	1.00	1.00	1.41E-05	cp250m #6
184	250.00	35.93	4900.00	5430.00	5165.00	46	0.71	1.49	1.00	1.00	1.00	1.06E-05	cp250m #7
185	250.00	62.05	4900.00	5430.00	5165.00	49	0.71	1.49	1.00	1.00	1.00	9.74E-07	cp250m #8
186	250.00	98.62	4900.00	5430.00	5165.00	47	0.71	1.49	1.00	1.00	1.00	2.61E-06	cp250m #9
187	250.00	147.11	4900.00	5430.00	5165.00	48	0.71	1.49	1.00	1.00	1.00	6.79E-07	cp250m #10
188	250.00	18.39	7370.00	8170.00	7770.00	40	0.71	1.49	1.00	1.00	1.00	1.78E-04	cp250h #1
189	250.00	35.93	7370.00	8170.00	7770.00	42	0.71	1.49	1.00	1.00	1.00	8.17E-06	cp250h #2
190	250.00	62.05	7370.00	8170.00	7770.00	46	0.71	1.49	1.00	1.00	1.00	1.07E-05	cp250h #3

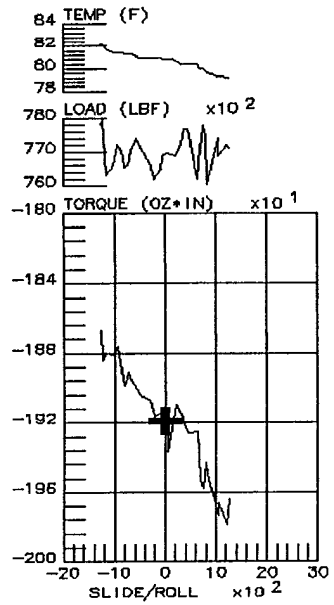
Data set: .CP 90-715 ~300 Hatcol 3110 ....continued

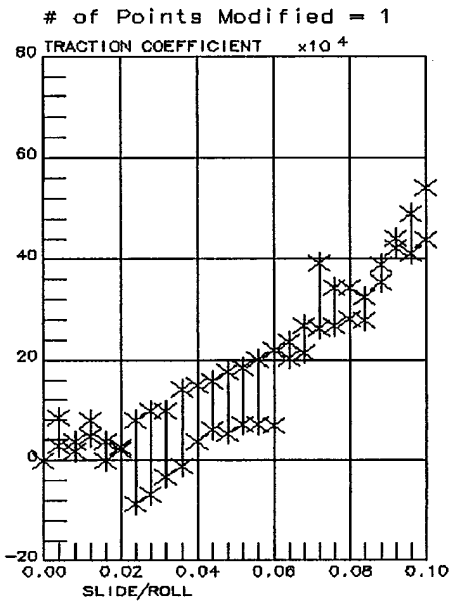
	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
191	250.00	98.62	7370.00	8170.00	7770.00	47	0.71	1.49	1.00	1.00	1.00	4.26E-06	cp250h #4
192	250.00	147.11	7370.00	8170.00	7770.00	44	0.71	1.49	1.00	1.00	1.00	1.03E-06	cp250h #5
193	250.00	18.39	9860.00	10880.00	10370.00	46	0.71	1.49	1.00	1.00	1.00	6.44E-05	cp250h #6
194	250.00	35.93	9860.00	10880.00	10370.00	47	0.71	1.49	1.00	1.00	1.00	1.52E-04	cp250h #7
195	250.00	62.05	9860.00	10880.00	10370.00	45	0.71	1.49	1.00	1.00	1.00	1.06E-05	cp250h #8
196	250.00	98.62	9860.00	10880.00	10370.00	49	0.71	1.49	1.00	1.00	1.00	2.57E-06	cp250h #9
197	250.00	147.11	9860.00	10880.00	10370.00	46	0.71	1.49	1.00	1.00	1.00	1.31E-05	cp250h #10
198	300.00	18.39	290.00	330.00	310.00	27	0.71	1.49	1.00	1.00	1.00	1.66E-03	cp300l #1
199	300.00	35.93	290.00	330.00	310.00	25	0.71	1.49	1.00	1.00	1.00	6.39E-04	cp300l #2
200	300.00	62.05	290.00	330.00	310.00	25	0.71	1.49	1.00	1.00	1.00	1.06E-04	cp300l #3
201	300.00	98.62	290.00	330.00	310.00	28	0.71	1.49	1.00	1.00	1.00	3.96E-04	cp300l #4
202	300.00	147.11	290.00	330.00	310.00	28	0.71	1.49	1.00	1.00	1.00	2.13E-04	cp300l #5
203	300.00	18.39	620.00	700.00	660.00	29	0.71	1.49	1.00	1.00	1.00	5.74E-04	cp300l #6
204	300.00	35.93	620.00	700.00	660.00	30	0.71	1.49	1.00	1.00	1.00	7.29E-05	cp300l #7
205	300.00	62.05	620.00	700.00	660.00	29	0.71	1.49	1.00	1.00	1.00	2.26E-04	cp300l #8
206	300.00	98.62	620.00	700.00	660.00	27	0.71	1.49	1.00	1.00	1.00	1.15E-04	cp300l #9
207	300.00	147.11	620.00	700.00	660.00	29	0.71	1.49	1.00	1.00	1.00	2.29E-04	cp300l #10
208	300.00	18.39	1215.00	1345.00	1280.00	30	0.71	1.49	1.00	1.00	1.00	7.35E-06	cp300l #11
209	300.00	35.93	1215.00	1345.00	1280.00	30	0.71	1.49	1.00	1.00	1.00	1.92E-05	cp300l #12
210	300.00	62.05	1215.00	1345.00	1280.00	30	0.71	1.49	1.00	1.00	1.00	6.67E-06	cp300l #13
211	300.00	98.62	1215.00	1345.00	1280.00	30	0.71	1.49	1.00	1.00	1.00	8.77E-06	cp300l #14
212	300.00	147.11	1215.00	1345.00	1280.00	30	0.71	1.49	1.00	1.00	1.00	1.32E-05	cp300l #15
213	300.00	18.39	2470.00	2735.00	2602.50	50	0.71	1.49	1.00	1.00	1.00	6.37E-04	cp300m #1
214	300.00	35.93	2470.00	2735.00	2602.50	44	0.71	1.49	1.00	1.00	1.00	7.96E-06	cp300m #2
215	300.00	62.05	2470.00	2735.00	2602.50	44	0.71	1.49	1.00	1.00	1.00	1.97E-06	cp300m #3
216	300.00	98.62	2470.00	2735.00	2602.50	45	0.71	1.49	1.00	1.00	1.00	7.41E-07	cp300m #4
217	300.00	147.11	2470.00	2735.00	2602.50	49	0.71	1.49	1.00	1.00	1.00	1.67E-05	cp300m #5
218	300.00	18.39	4900.00	5430.00	5165.00	49	0.71	1.49	1.00	1.00	1.00	1.09E-04	cp300m #6
219	300.00	35.93	4900.00	5430.00	5165.00	49	0.71	1.49	1.00	1.00	1.00	1.45E-05	cp300m #7
220	300.00	62.05	4900.00	5430.00	5165.00	49	0.71	1.49	1.00	1.00	1.00	6.75E-06	cp300m #8
221	300.00	98.62	4900.00	5430.00	5165.00	47	0.71	1.49	1.00	1.00	1.00	4.97E-06	cp300m #9
222	300.00	147.11	4900.00	5430.00	5165.00	49	0.71	1.49	1.00	1.00	1.00	7.58E-07	cp300m #10
223	300.00	18.39	7370.00	8170.00	7770.00	44	0.71	1.49	1.00	1.00	1.00	3.44E-04	cp300h #1
224	300.00	35.93	7370.00	8170.00	7770.00	47	0.71	1.49	1.00	1.00	1.00	1.09E-05	cp300h #2
225	300.00	62.05	7370.00	8170.00	7770.00	45	0.71	1.49	1.00	1.00	1.00	6.05E-06	cp300h #3
226	300.00	98.62	7370.00	8170.00	7770.00	43	0.71	1.49	1.00	1.00	1.00	4.87E-06	cp300h #4
227	300.00	147.11	7370.00	8170.00	7770.00	43	0.71	1.49	1.00	1.00	1.00	6.02E-06	cp300h #5
228	300.00	18.39	9860.00	10880.00	10370.00	43	0.71	1.49	1.00	1.00	1.00	1.27E-04	cp300h #6
229	300.00	35.93	9860.00	10880.00	10370.00	46	0.71	1.49	1.00	1.00	1.00	7.05E-05	cp300h #7
230	300.00	62.05	9860.00	10880.00	10370.00	46	0.71	1.49	1.00	1.00	1.00	1.21E-05	cp300h #8
231	300.00	98.62	9860.00	10880.00	10370.00	47	0.71	1.49	1.00	1.00	1.00	1.51E-06	cp300h #9
232	300.00	147.11	9860.00	10880.00	10370.00	47	0.71	1.49	1.00	1.00	1.00	4.04E-06	cp300h #10

Summary of Select Data Files

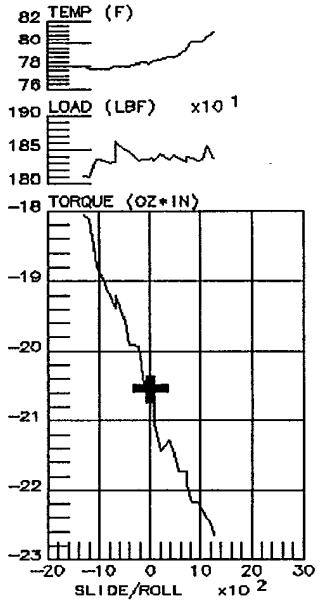
Filename	Temp	RollRpm	DataCurve #			
cp1.dat	80.00	660.00	8	9	10	17
cp2.dat	80.00	1280.00	13	14	15	18
cp3.dat	80.00	2603.00	21	22	23	29
cp4.dat	80.00	5165.00	26	27	28	30
cp5.dat	80.00	7770.00	40	33	34	
cp6.dat	80.00	10370.00	36	37	38	
cp7.dat	100.00	660.00	50	51	52	59
cp8.dat	100.00	1280.00	55	56	57	60
cp9.dat	100.00	2603.00	63	64	65	71
cp10.dat	100.00	5165.00	68	69	70	72
cp11.dat	100.00	7770.00	86	75	88	
cp12.dat	100.00	10370.00	78	95	80	
cp13.dat	150.00	660.00	102	103	104	110
cp14.dat	150.00	1280.00	106	107	108	111
cp15.dat	150.00	2603.00	113	114	115	120
cp16.dat	150.00	5165.00	117	118	119	121
cp17.dat	150.00	7770.00	123	124	125	
cp18.dat	150.00	10370.00	127	128	129	
cp19.dat	200.00	660.00	135	136	137	143
cp20.dat	200.00	1280.00	139	140	141	144
cp21.dat	200.00	2603.00	146	147	148	153
cp22.dat	200.00	5165.00	150	151	152	154
cp23.dat	200.00	7770.00	156	157	158	
cp24.dat	200.00	10370.00	160	161	162	
cp25.dat	250.00	660.00	169	170	171	172
cp26.dat	250.00	1280.00	174	175	176	177
cp27.dat	250.00	2603.00	179	180	181	182
cp28.dat	250.00	5165.00	184	185	186	187
cp29.dat	250.00	7770.00	189	190	191	192
cp30.dat	250.00	10370.00	194	195	196	197
cp31.dat	300.00	660.00	204	205	206	207
cp32.dat	300.00	1280.00	209	210	211	212
cp33.dat	300.00	2603.00	214	215	216	217
cp34.dat	300.00	5165.00	219	220	221	222
cp35.dat	300.00	7770.00	224	225	226	227
cp36.dat	300.00	10370.00	229	230	231	232

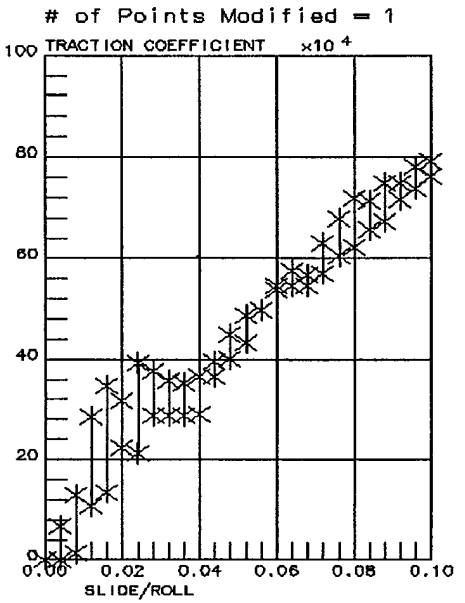
CP 90-715 ~300 Hatcol 3110 #1
80F 8LBF 310RPM 1 FILE: cp801



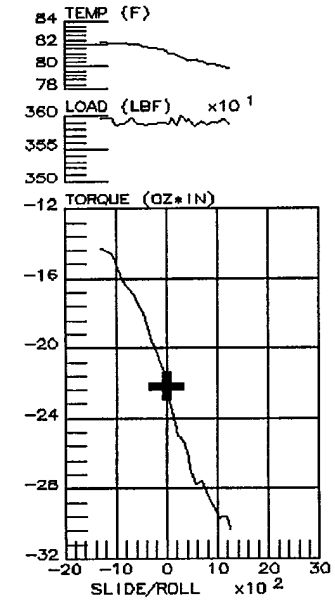


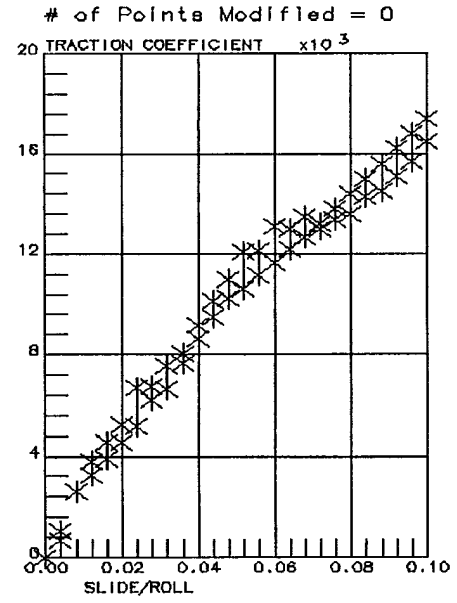
CP 90-715 ~300 Hatcol 3110 #2
80F 18LBF 310RPM 2 FILE: cp801



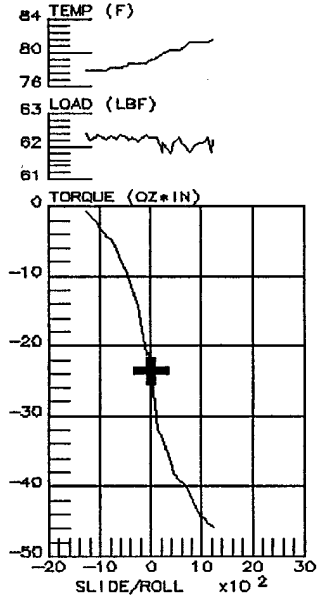


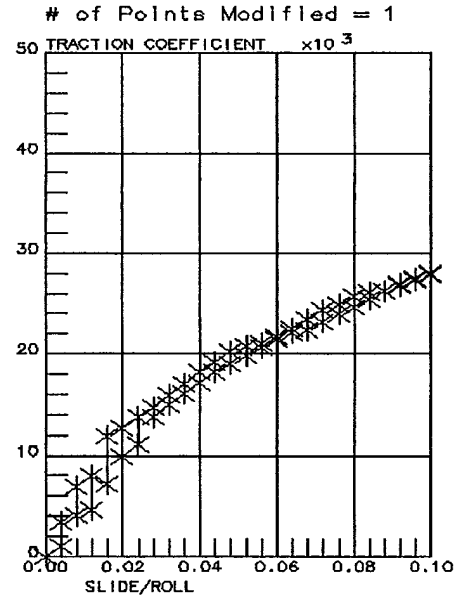
CP 90-715 ~300 Hatcol 3110 #3
80F 36LBF 310RPM 3 FILE: cp801



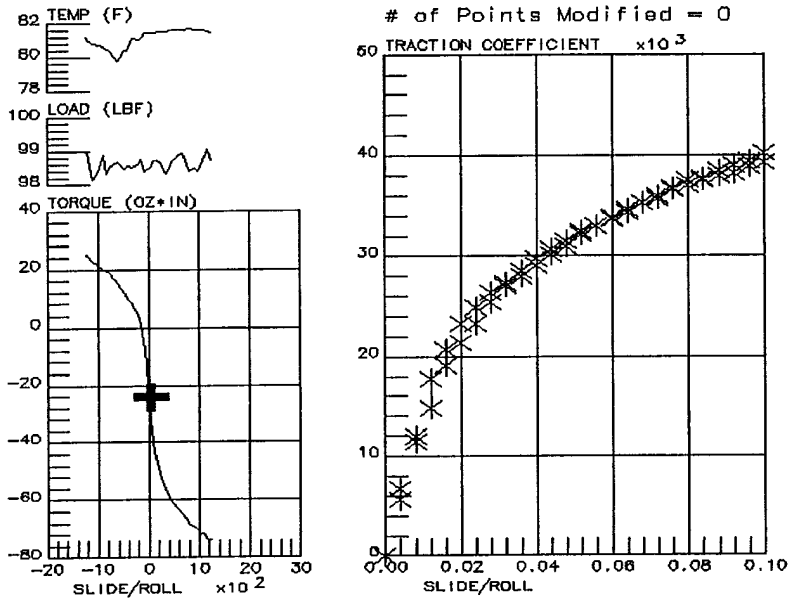


CP 90-715 ~300 Hatcol 3110 #4
80F 62LBF 310RPM 4 FILE: cp801

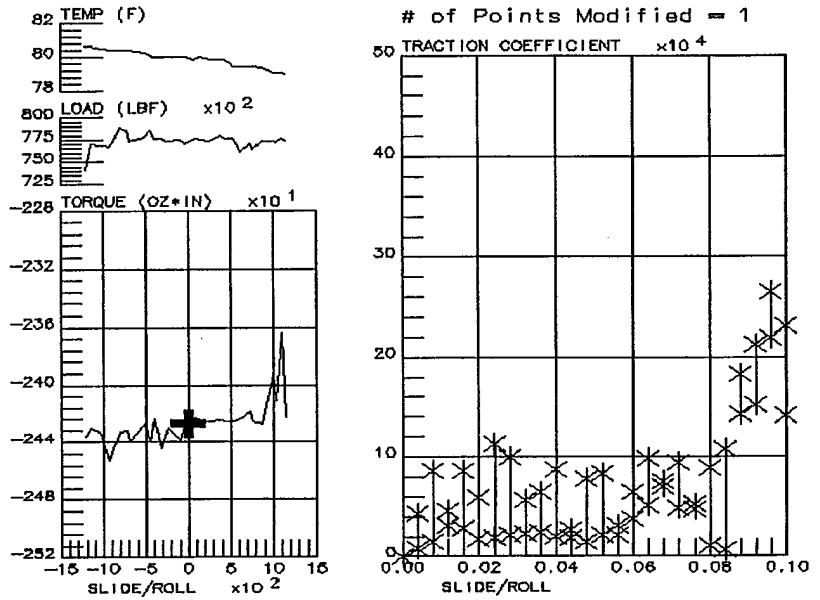




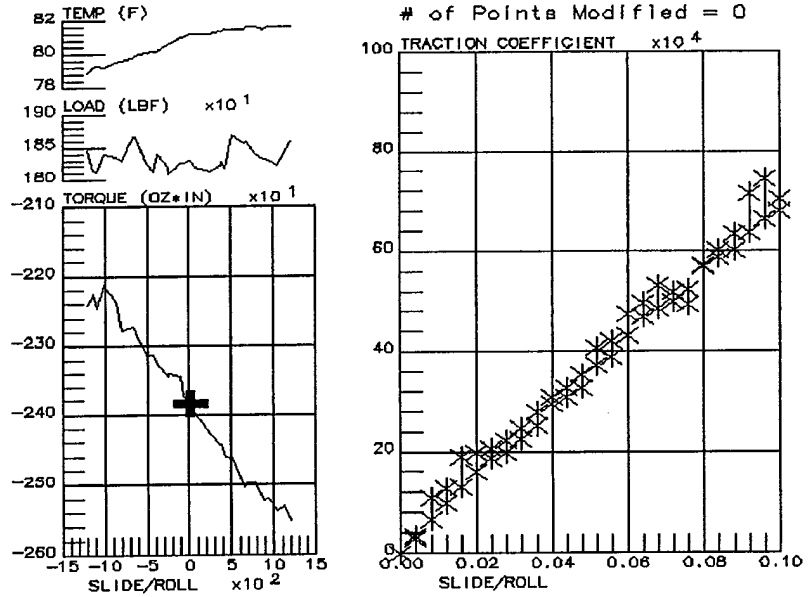
CP 90-715 ~300 Hatcol 3110 #5
80F 99LBF 310RPM 5 FILE: cp801



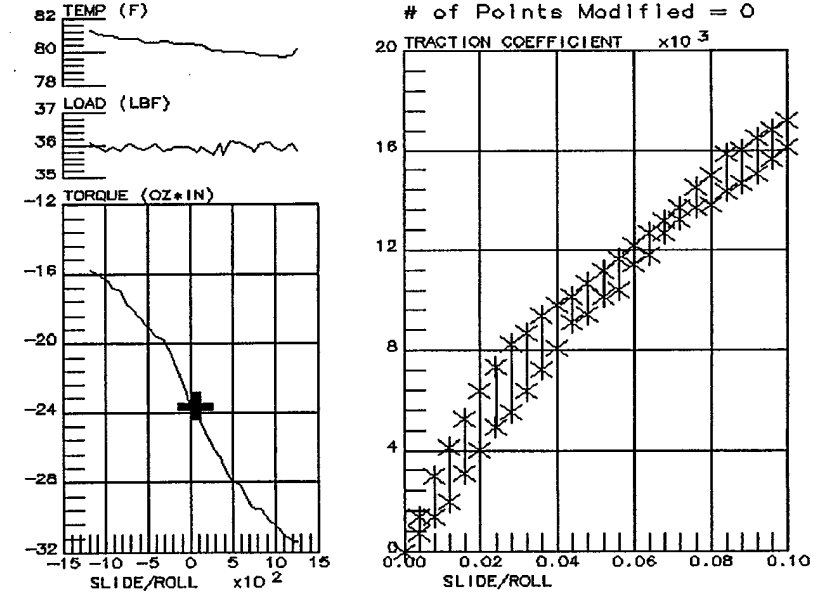
CP 90-715 ~300 Hatcol 3110 #6
80F 8LBF 660RPM 6 FILE: cp801



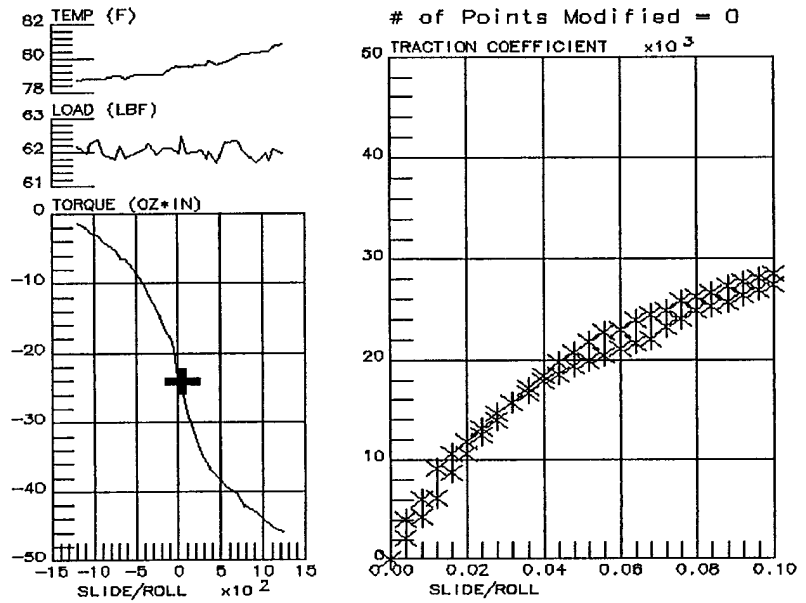
CP 90-715 ~300 Hatcol 3110 #7
80F 18LBF 660RPM 7 FILE: cp801



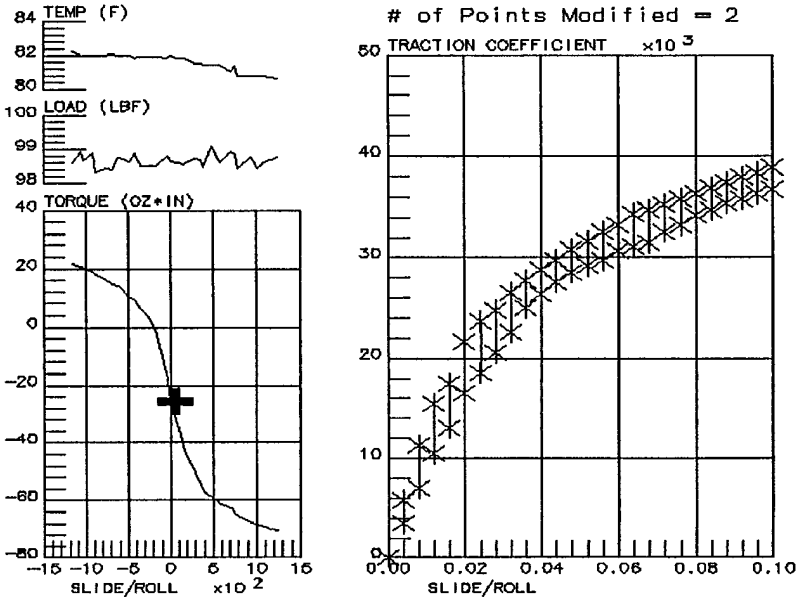
CP 90-715 ~300 Hatcol 3110 #8
80F 36LBF 660RPM 8 FILE: cp801



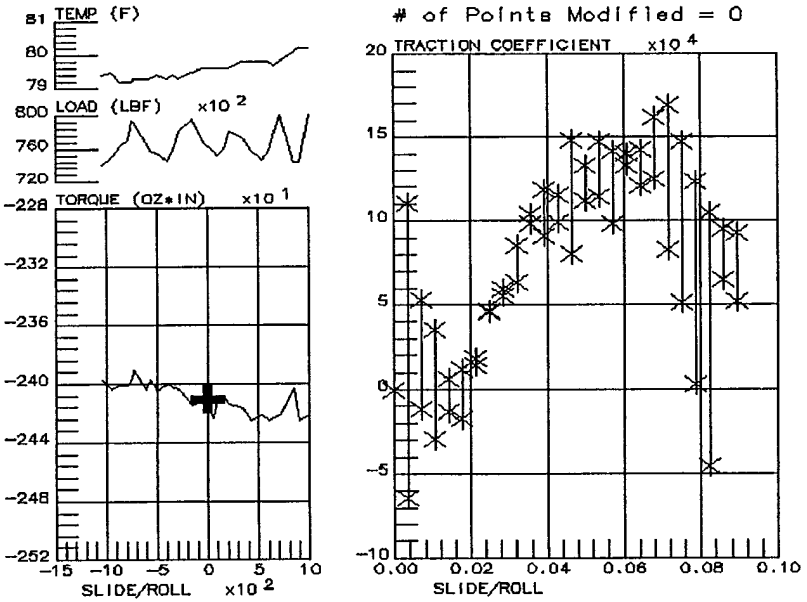
CP 90-715 ~300 Hatcol 3110 #9
80F 62LBF 660RPM 9 FILE: cp801



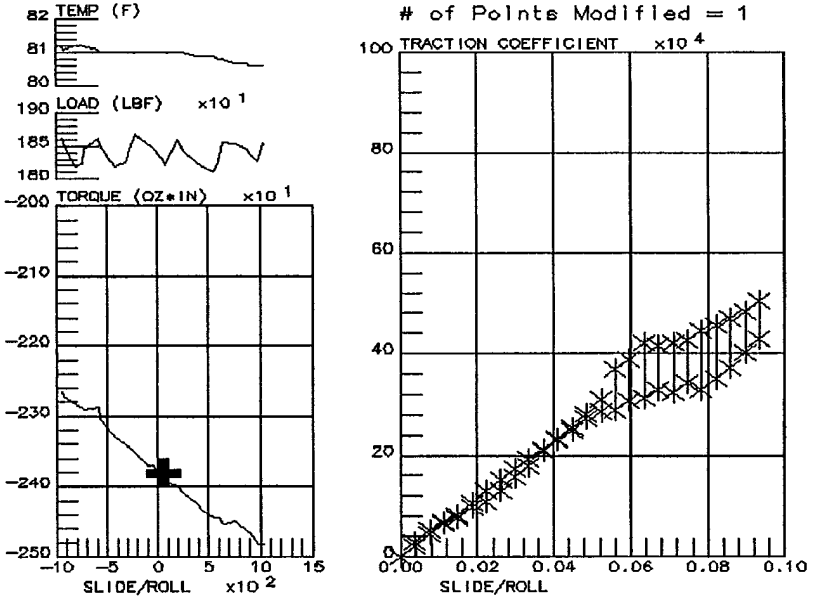
CP 90-715 ~300 Hatcol 3110 #10
80F 99LBF 660RPM 10 FILE: cp801



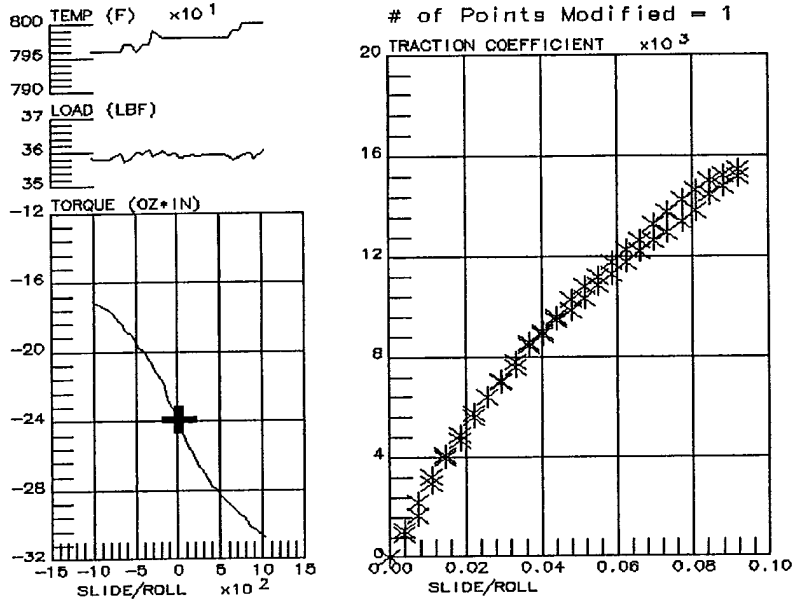
CP 90-715 ~300 Hatcol 3110 #11
80F 8LBF 1280RPM 11 FILE: cp801



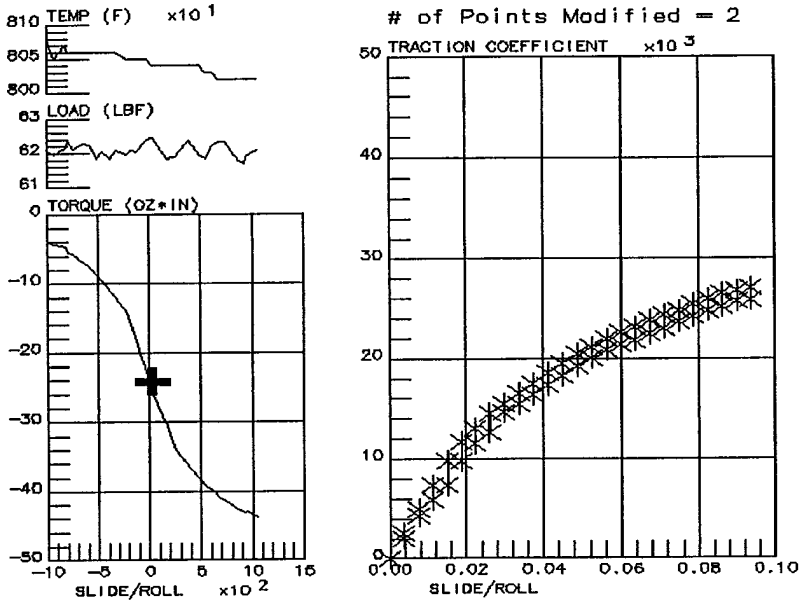
CP 90-715 ~300 Hatcol 3110 #12
80F 18LBF 1280RPM 12 FILE: cp801



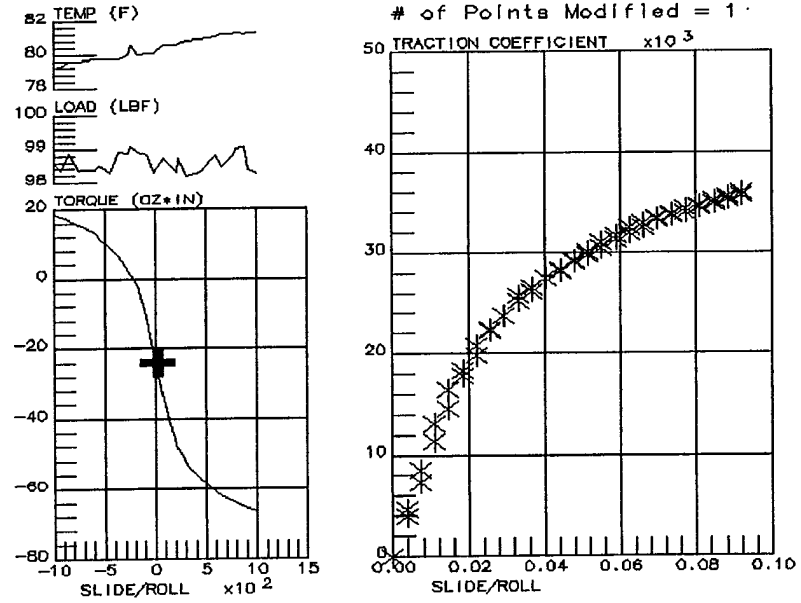
CP 90-715 ~300 Hatcol 3110 #13
80F 36LBF 1280RPM 13 FILE: cp801



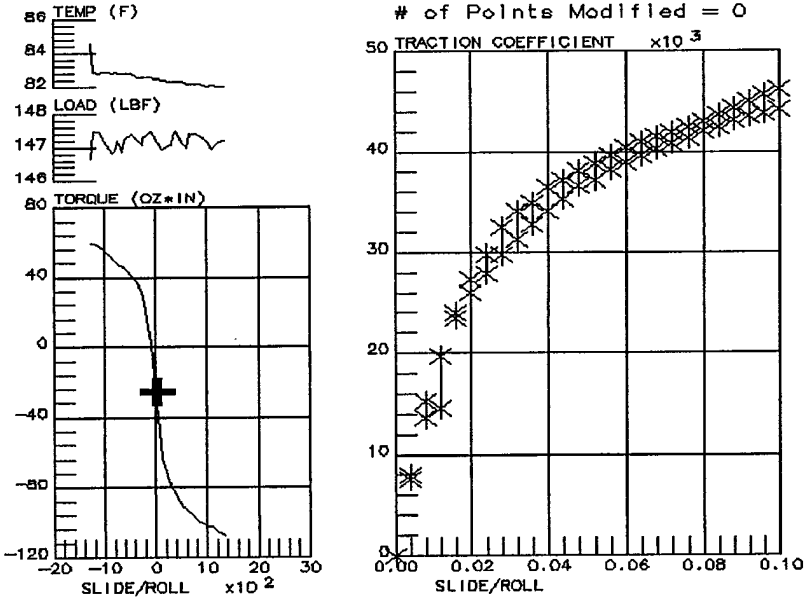
CP 90-715 ~300 Hatcol 3110 #14
80F 62LBF 1280RPM 14 FILE: cp801



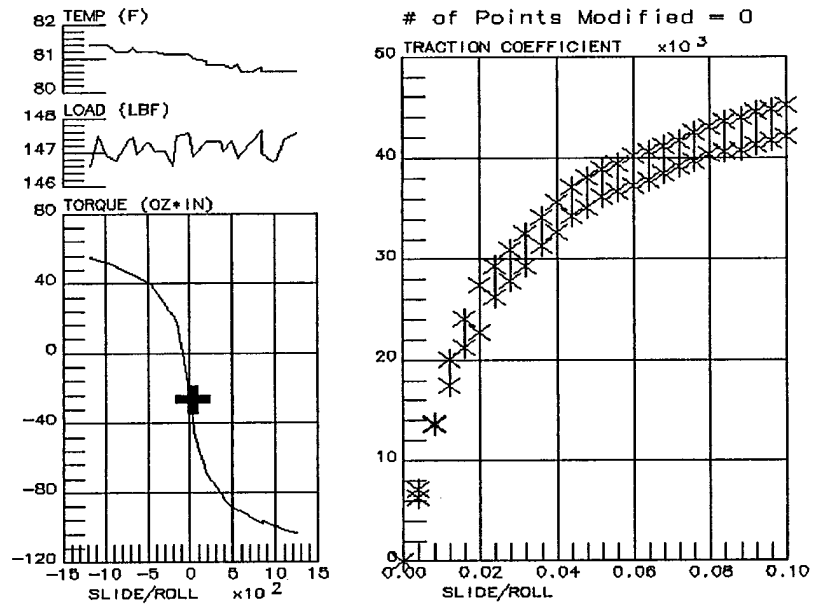
CP 90-715 ~300 Hatcol 3110 #15
80F 99LBF 1280RPM 15 FILE: cp801



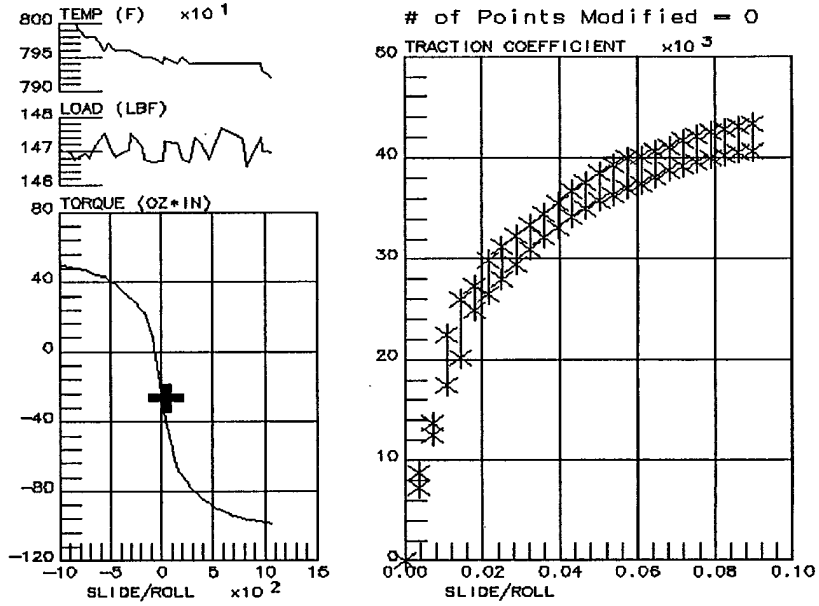
CP 90-715 ~300 Hatcol 3110 #16
80F 147LBF 310RPM 1 FILE: cp801x



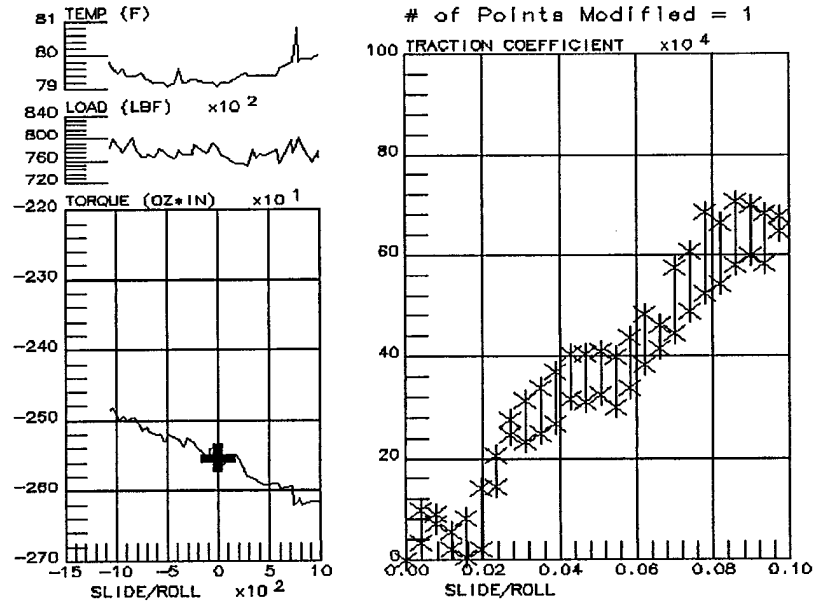
CP 90-715 ~300 Hatcol 3110 #17
80F 147LBF 660RPM 2 FILE: cp801x



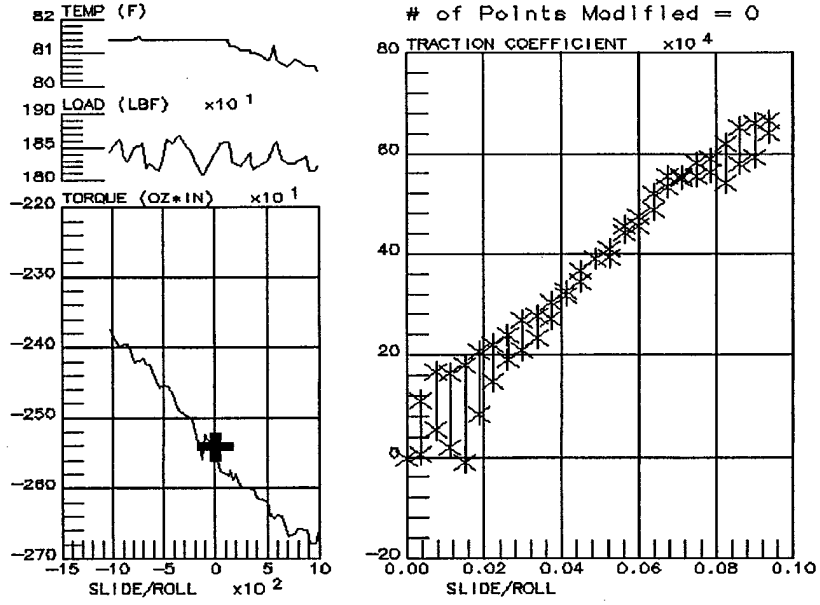
CP 90-715 ~300 Hatcol 3110 #18
80F 147LBF 1280RPM 3 FILE: cp801x



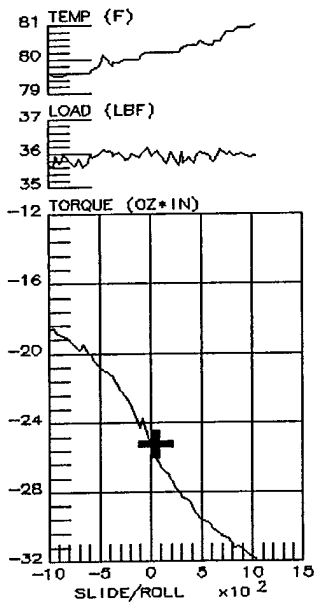
CP 90-715 ~300 Hatcol 3110 #19
80F 8LBF 2603RPM 1 FILE: cp80m

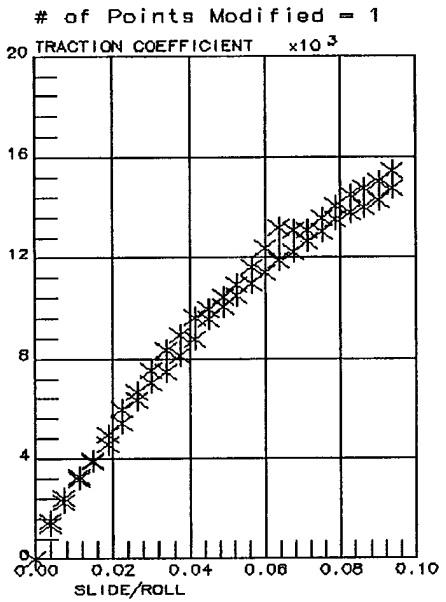


CP 90-715 ~300 Hatcol 3110 #20
80F 18LBF 2603RPM 2 FILE: cp80m

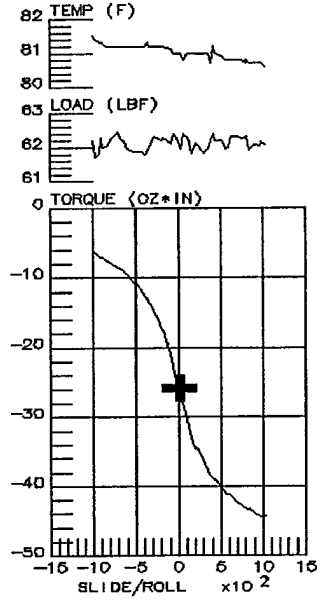


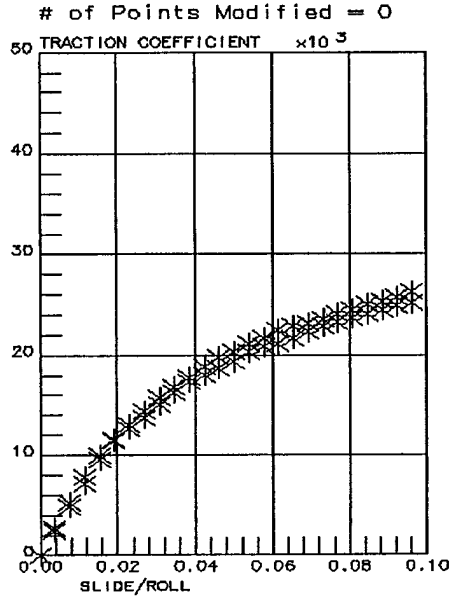
CP 90-715 ~300 Hatcol 3110 #21
80F 36LBF 2603RPM 3 FILE: cp80m



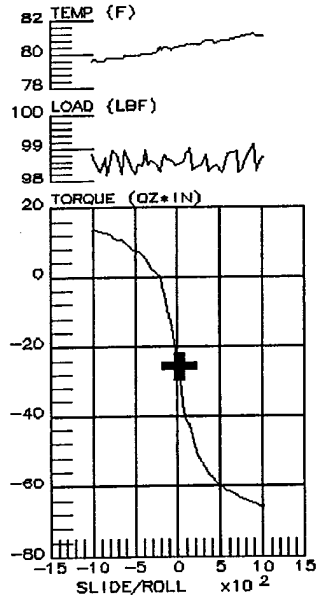


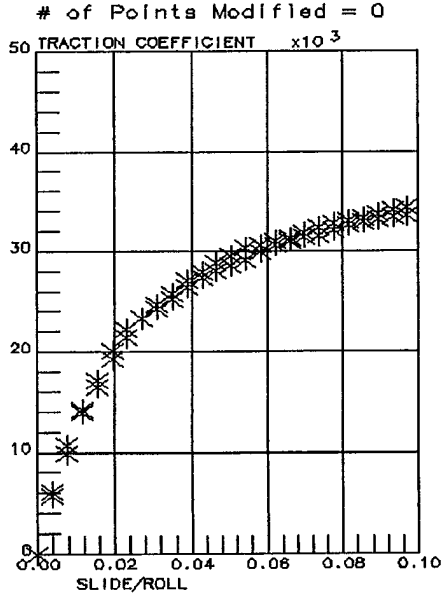
CP 90-715 ~300 Hatcol 3110 #22
80F 62LBF 2603RPM 4 FILE: cp80m



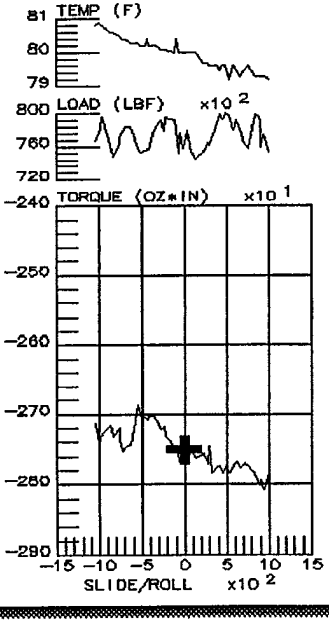


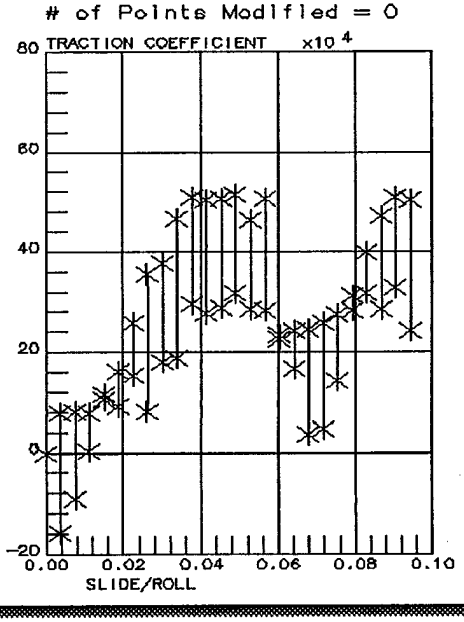
CP 90-715 ~300 Hatcol 3110 #23
80F 99LBF 2603RPM 5 FILE: cp80m





CP 90-715 ~300 Hatcol 3110 #24
80F 8LBF 5165RPM 6 FILE: cp80m





CP 90-715 ~300 Hatcol 3110 #25
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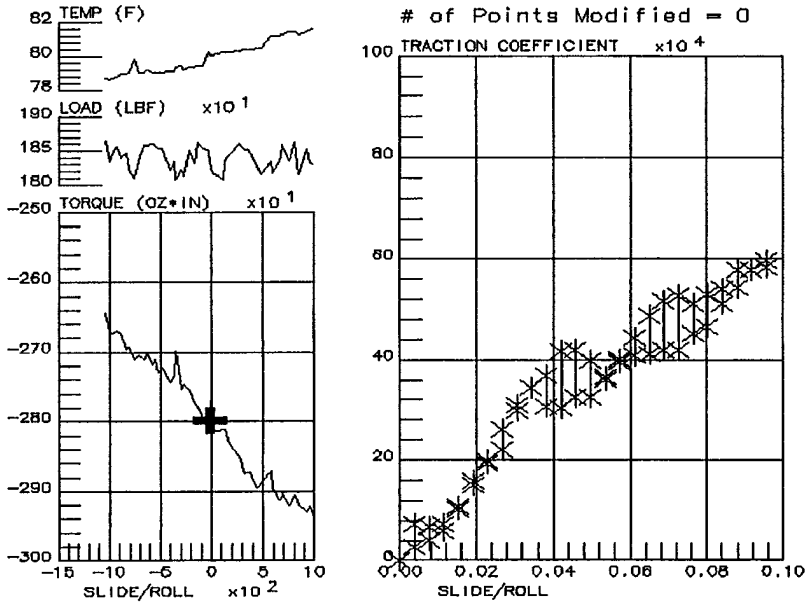
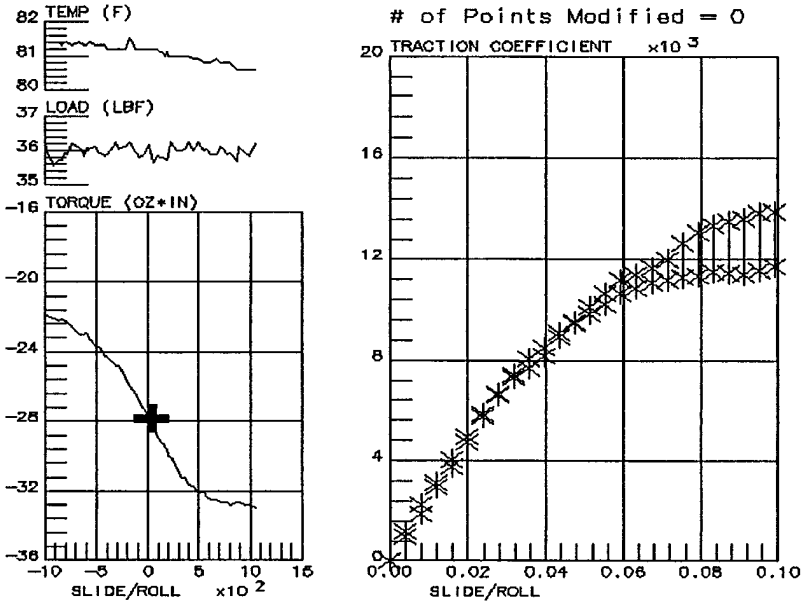
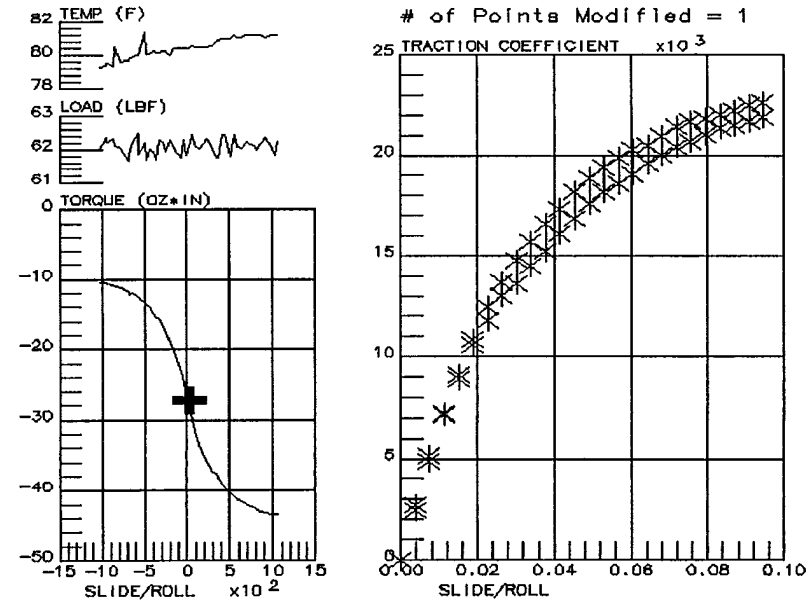


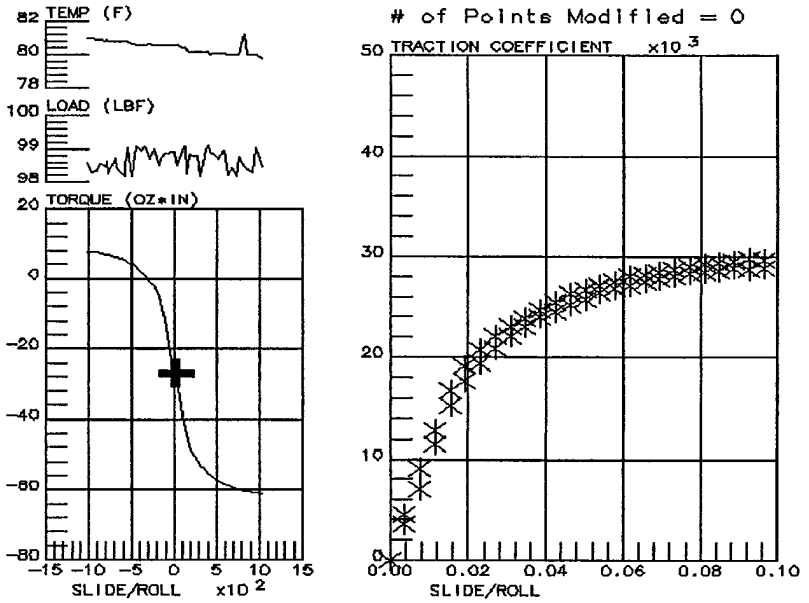
CP 90-715 ~300 Hatcol 3110 #26
80F 36LBF 5165RPM 8 FILE: cp80m



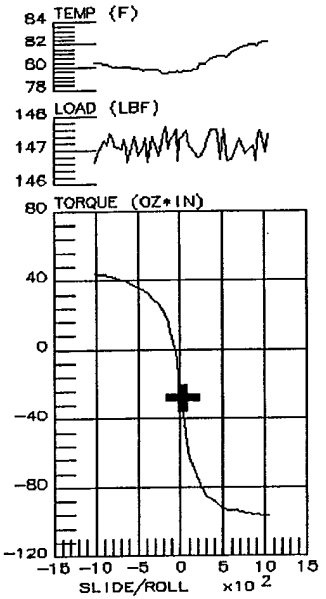
CP 90-715 ~300 Hatcol 3110 #27
80F 62LBF 5165RPM 9 FILE: cp80m



CP 90-715 ~300 Hatcol 3110 #28
80F 99LBF 5165RPM 10 FILE: cp80m



CP 90-715 ~300 Hatcol 3110 #29
80F 147LBF 2603RPM 1 FILE: cp80mx



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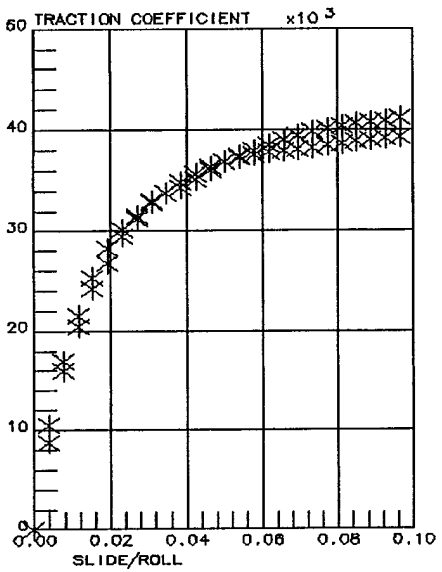
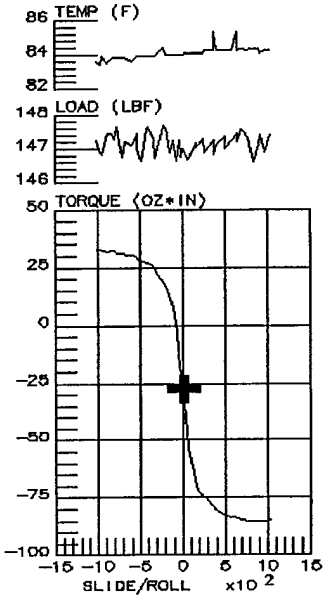


CP 90-715 ~300 Hatcol 3110 #30
80F 147LBF 5165RPM 2 FILE: cp80mx



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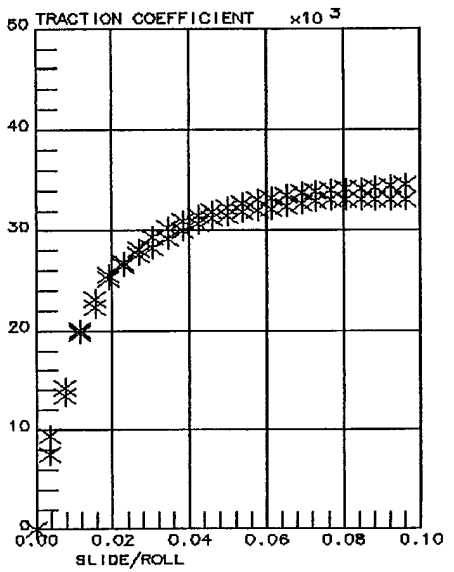
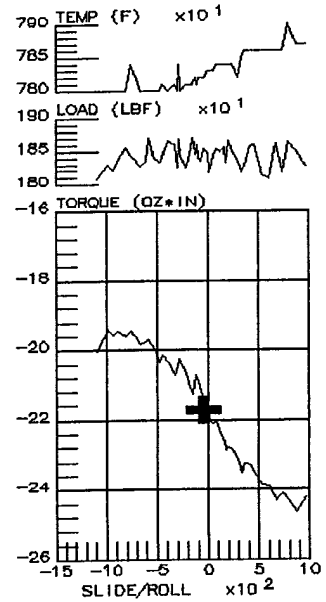


CP 90-715 ~300 Hatcol 3110 #31
80F 18LBF 7770RPM 1 FILE: cp80h



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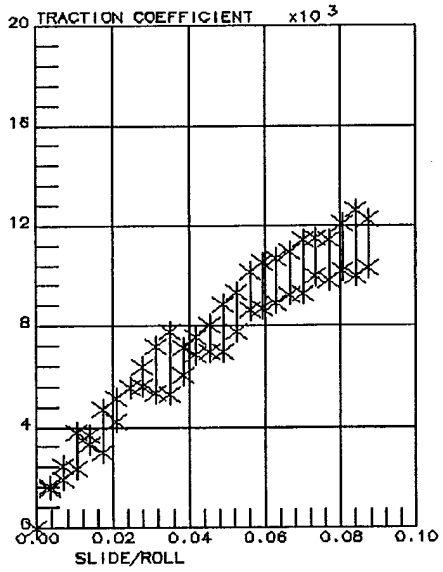
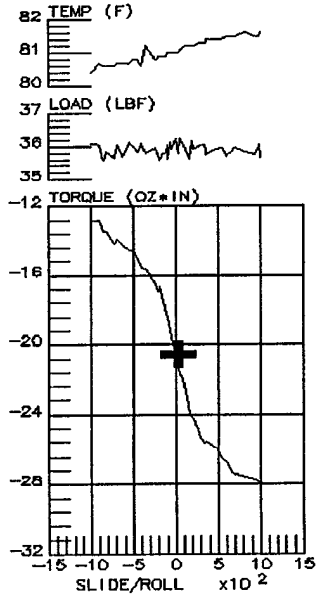


CP 90-715 ~300 Hatcol 3110 #32
80F 36LBF 7770RPM 2 FILE: cp80h



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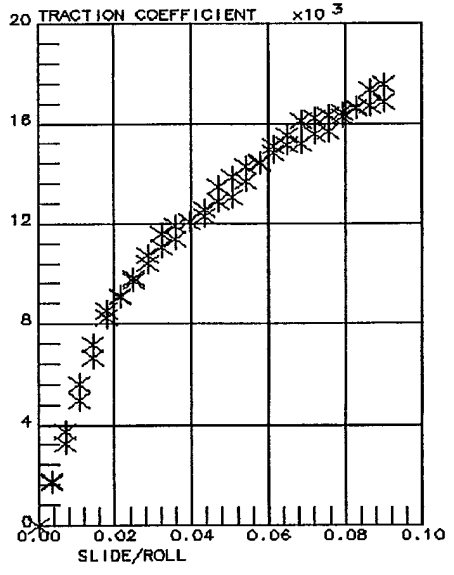
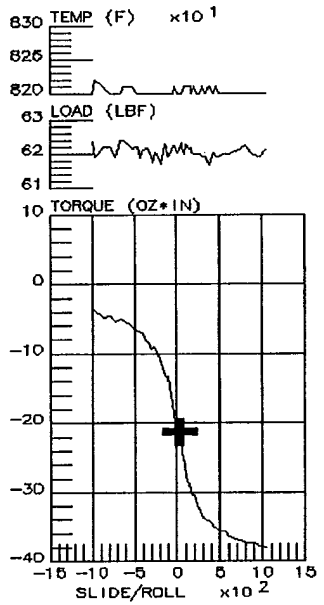


CP 90-715 ~300 Hatcol 3110 #33
80F 62LBF 7770RPM 3 FILE: cp80h



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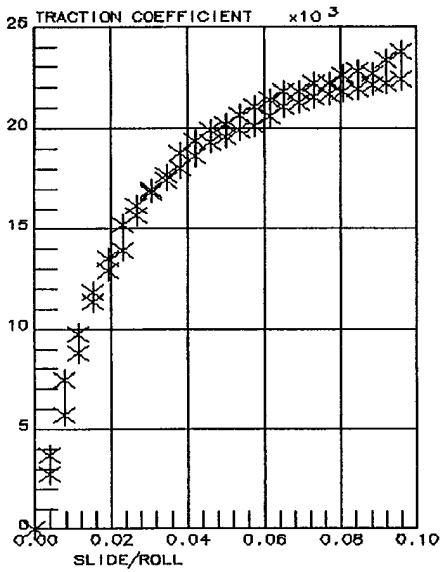
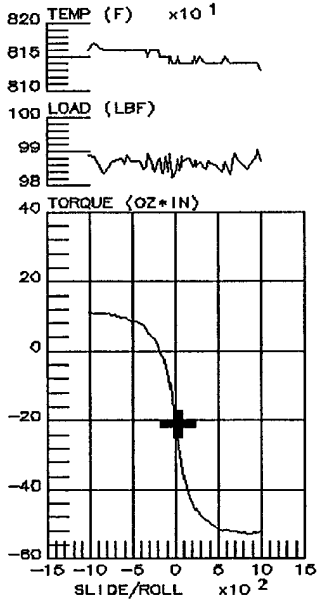


CP 90-715 ~300 Hatcol 3110 #34
80F 99LBF 7770RPM 4 FILE: cp80h



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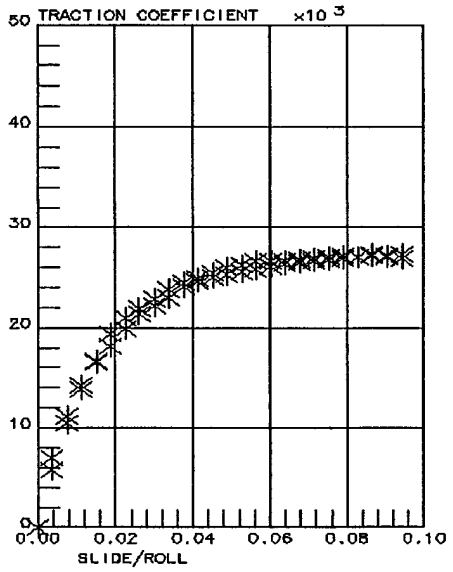
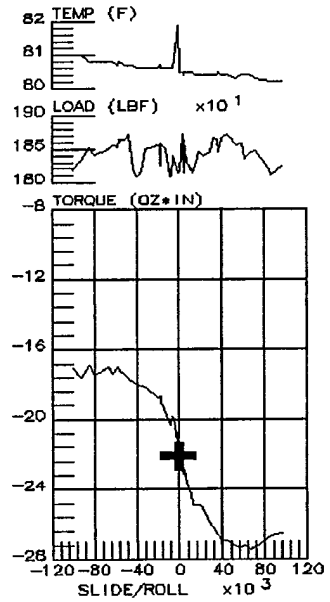


CP 90-715 ~300 Hatcol 3110 #35
80F 18LBF 10370RPM 5 FILE: cp80h



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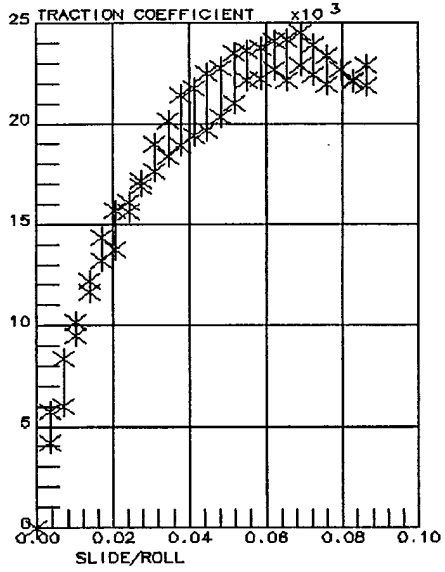
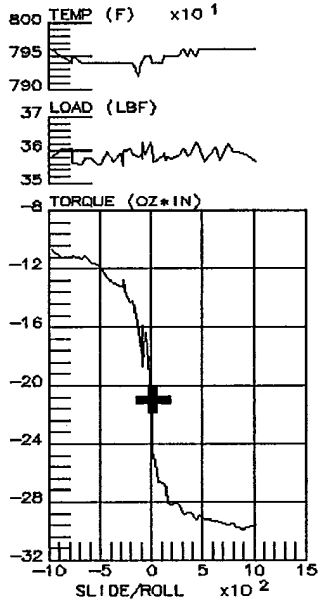


CP 90-715 ~300 Hatcol 3110 #36
80F 36LBF 10370RPM 6 FILE: cp80h



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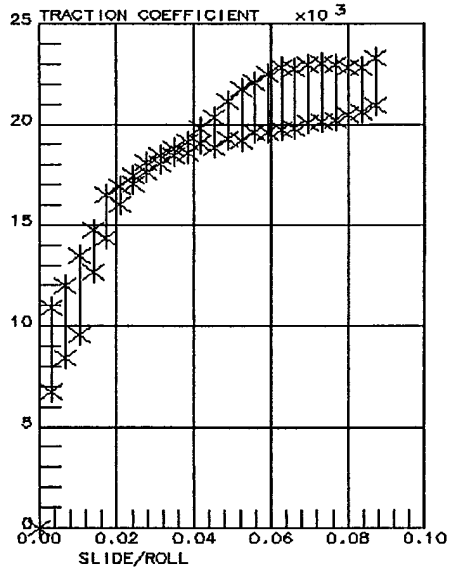
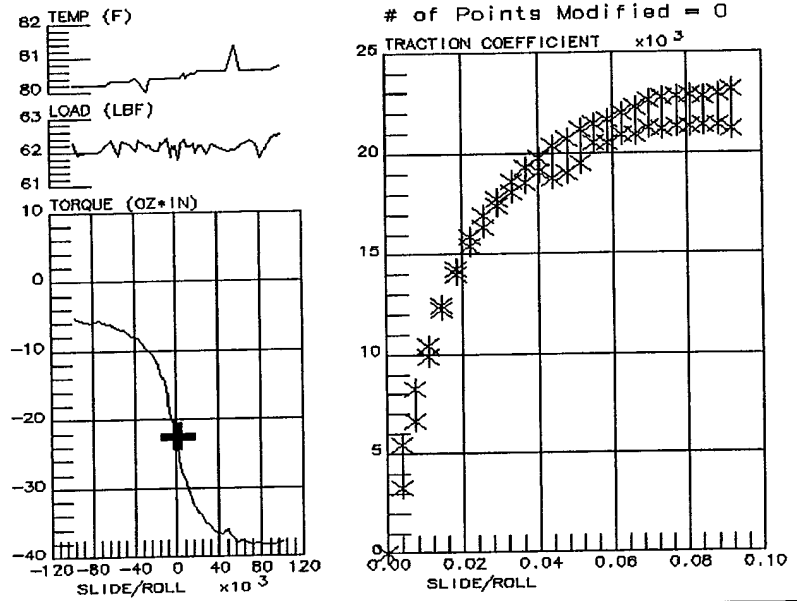
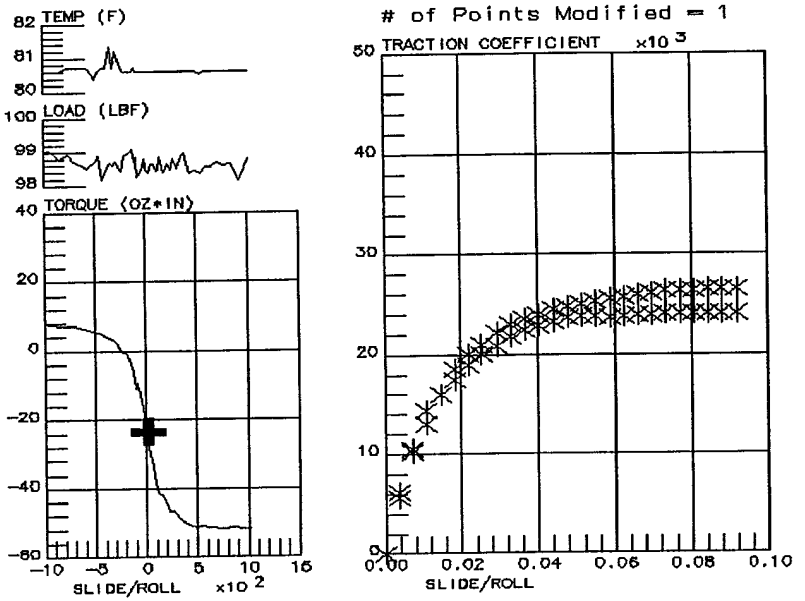


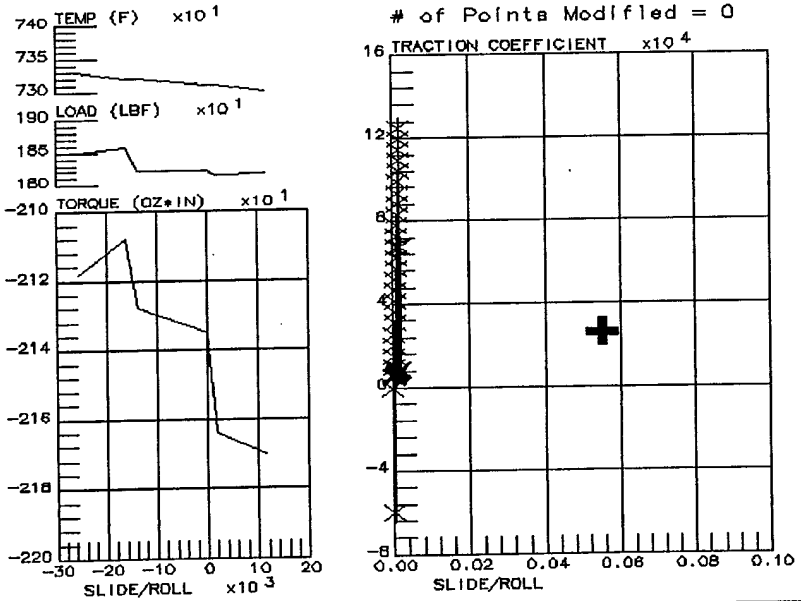
CP 90-715 ~300 Hatcol 3110 #37
80F 82LBF 10370RPM 7 FILE: cp80h



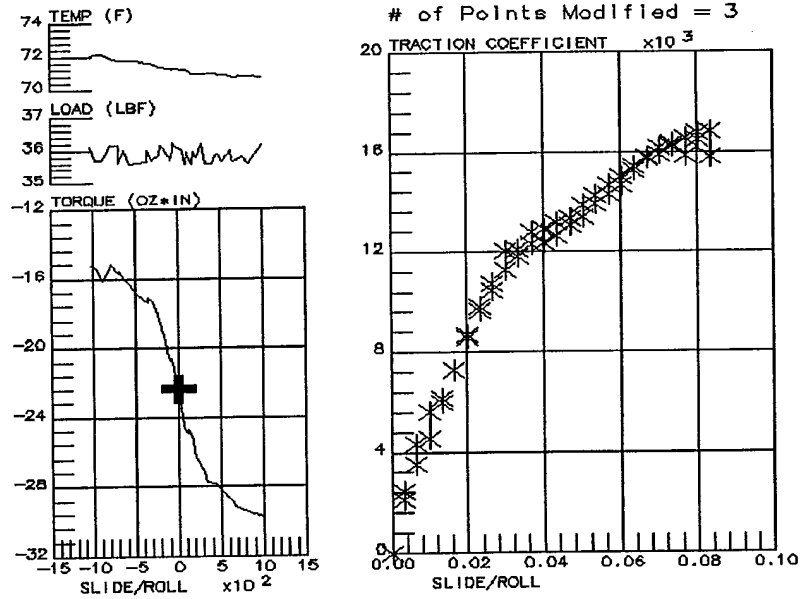
CP 90-715 ~300 Hatcol 3110 #38
80F 99LBF 10370RPM 8 FILE: cp80h



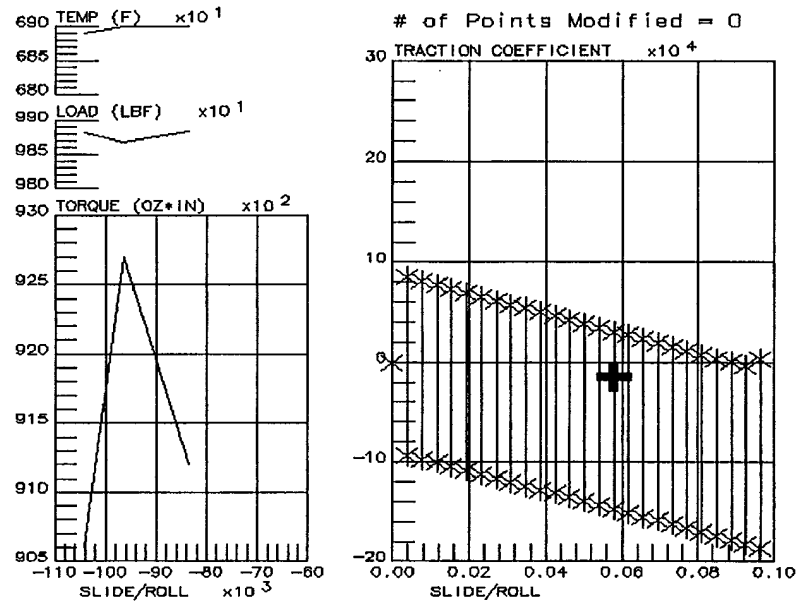
CP 90-715 ~300 Hatcol 3110 #39
80F 18LBF 7770RPM 1 FILE: cp80hxx



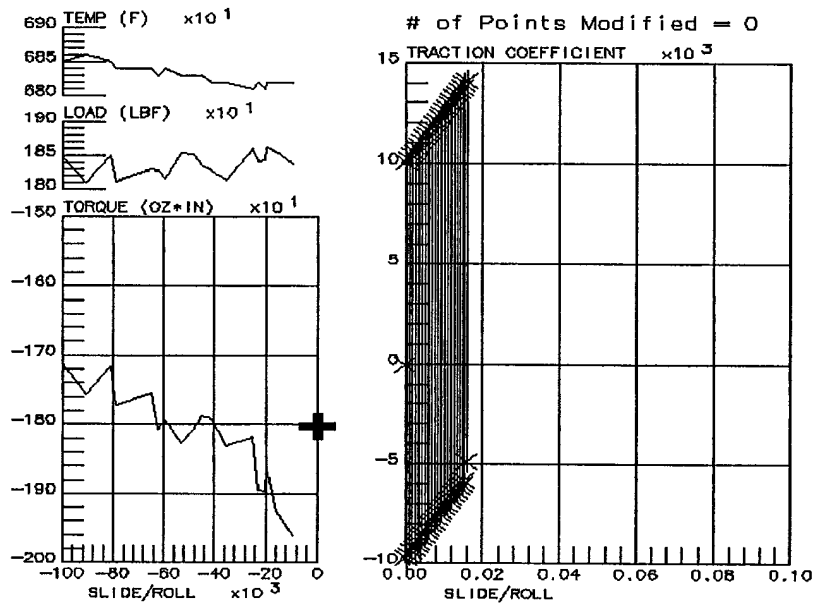
CP 90-715 ~300 Hatcol 3110 #40
80F 36LBF 7770RPM 2 FILE: cp80hxx



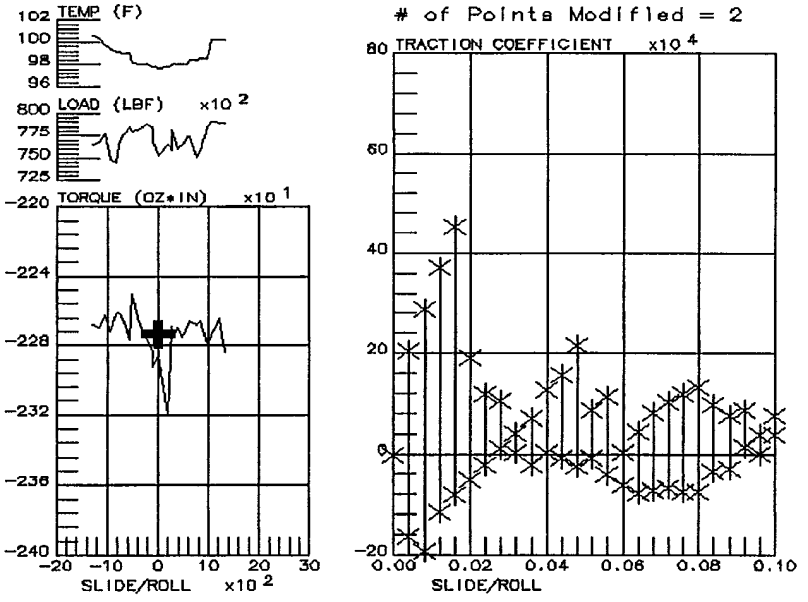
CP 90-715 ~300 Hatcol 3110 #41
80F 62LBF 7770RPM 3 FILE: cp80hxx



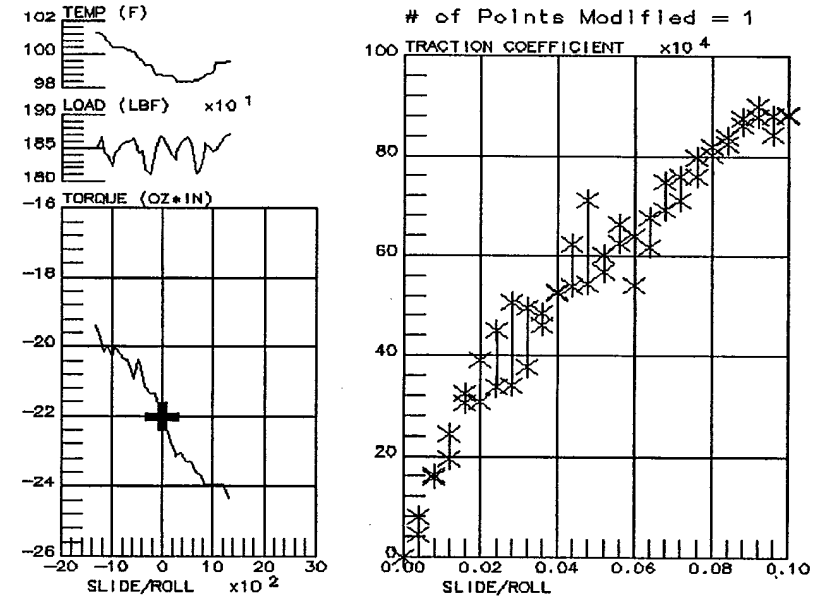
CP 90-715 ~300 Hatcol 3110 #42
80F 18LBF 10370RPM 5 FILE: cp80hxx



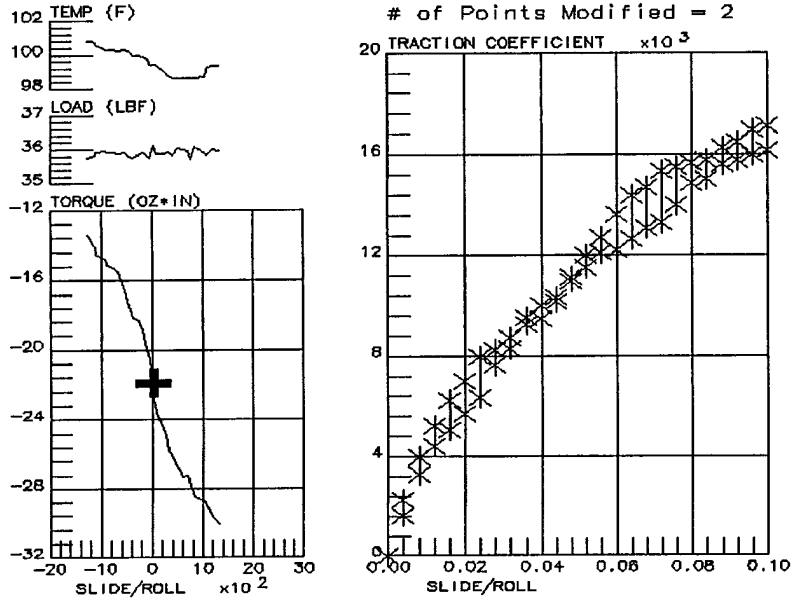
CP 90-715 ~300 Hatcol 3110 #43
100F 8LBF 310RPM 1 FILE: cp100l



CP 90-715 ~300 Hatcol 3110 #44
100F 18LBF 310RPM 2 FILE: cp100l

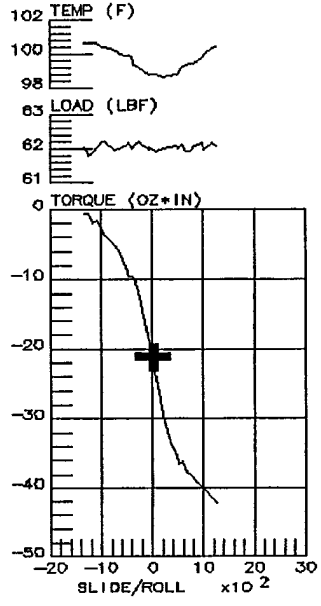


CP 90-715 ~300 Hatcol 3110 #45
100F 36LBF 310RPM 3 FILE: cp1001

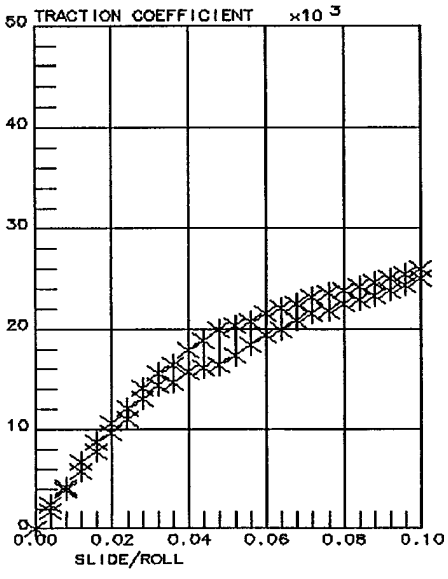


# of Points Modified = 2

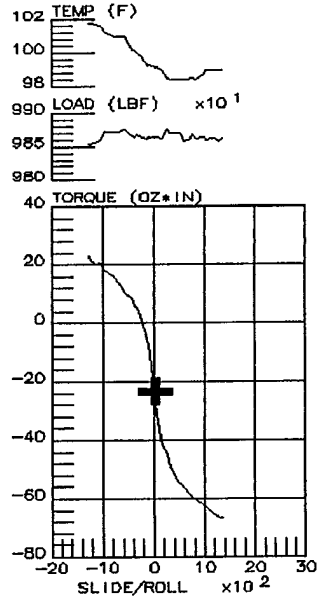
CP 90-715 ~300 Hatcol 3110 #46
100F 62LBF 310RPM 4 FILE: cp1001



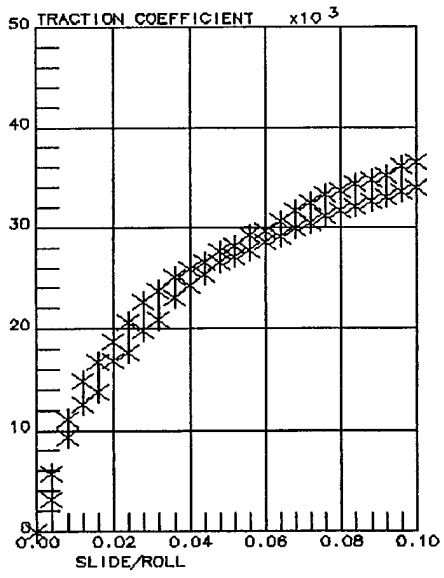
# of Points Modified = 1



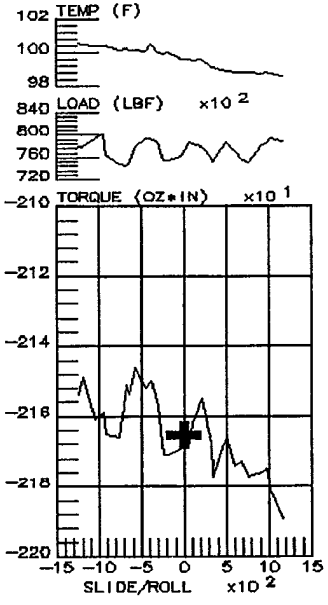
CP 90-715 ~300 Hatcol 3110 #47
100F 99LBF 310RPM 5 FILE: cp1001



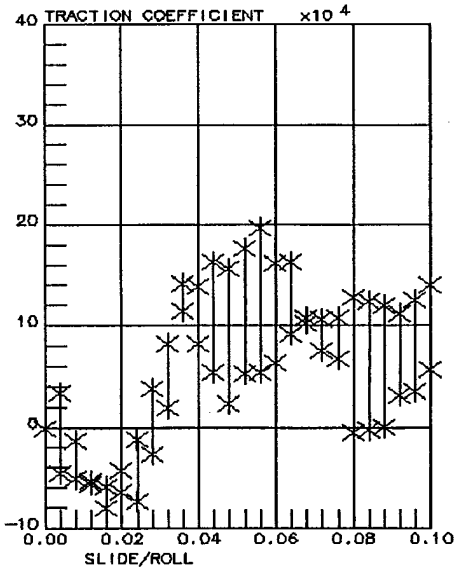
# of Points Modified = 0



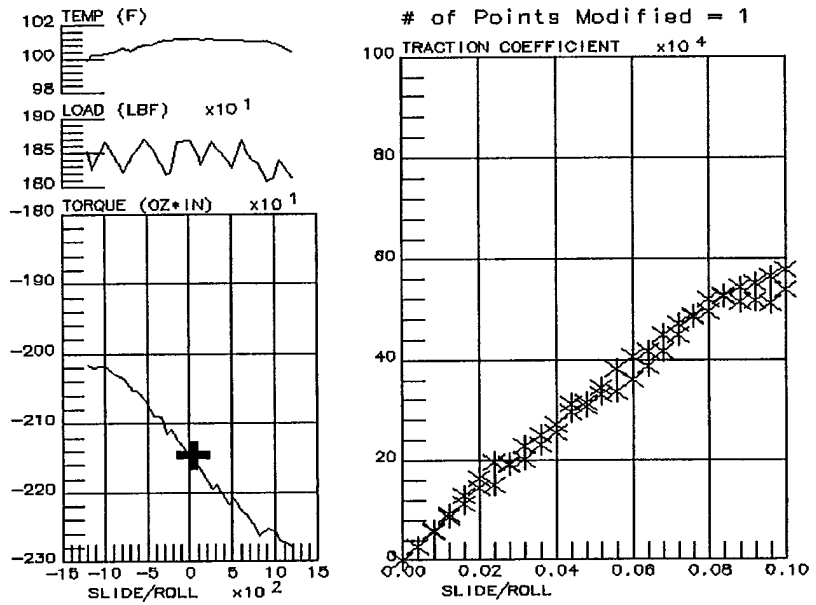
CP 90-715 ~300 Hatcol 3110 #48
100F 8LBF 660RPM 6 FILE: cp1001



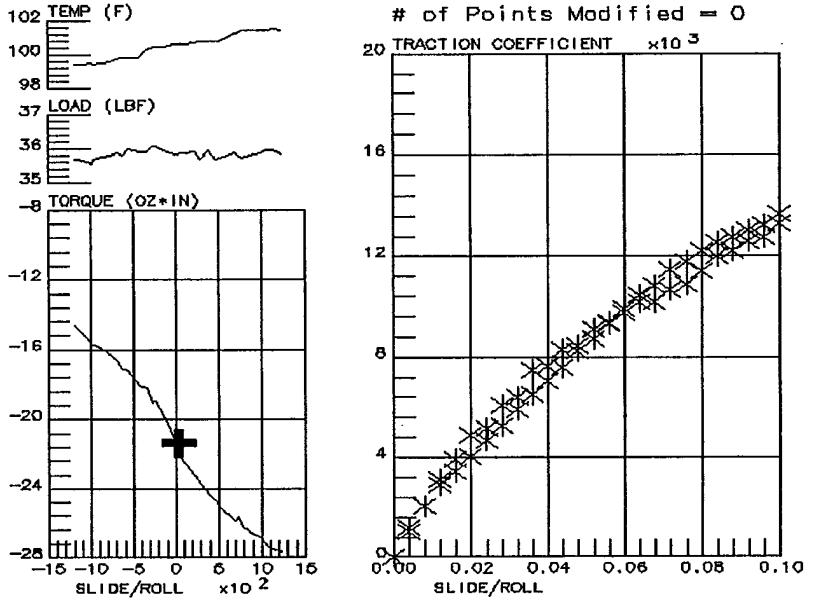
# of Points Modified = 1



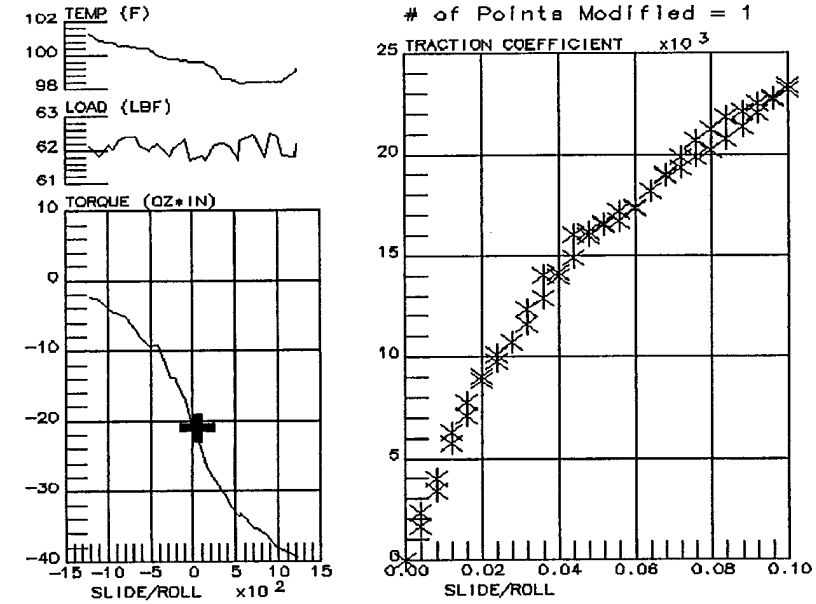
CP 90-715 ~300 Hatcol 3110 #49
100F 18LBF 660RPM 7 FILE: cp1001



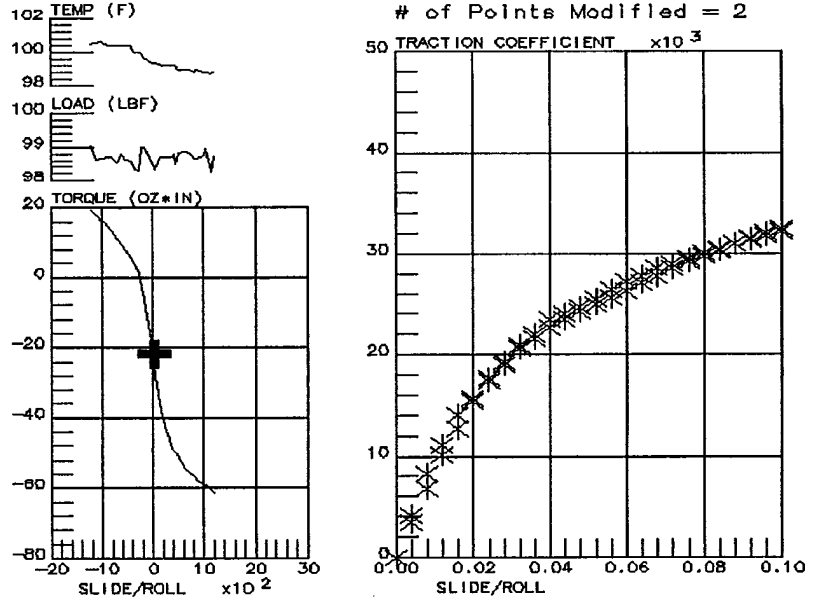
CP 90-715 ~300 Hatcol 3110 #50
100F 36LBF 660RPM 8 FILE: cp1001

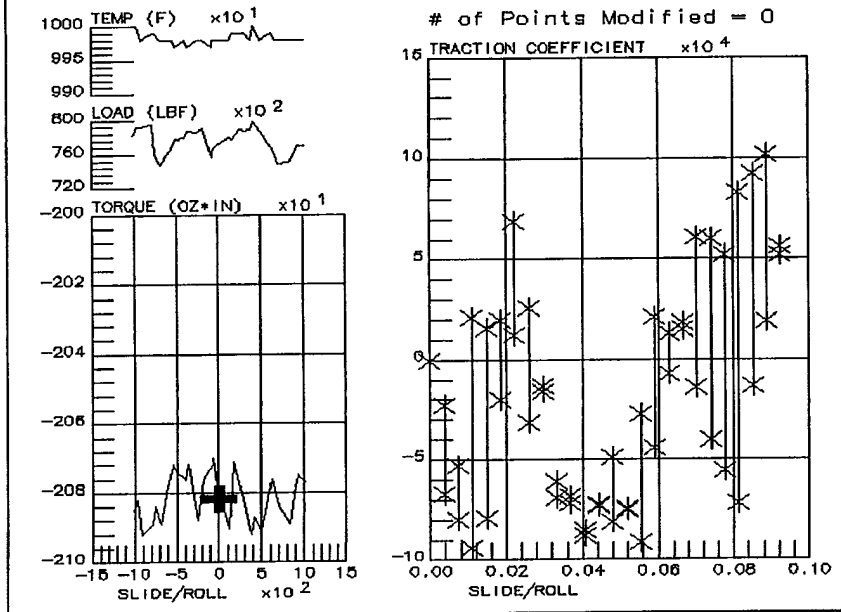


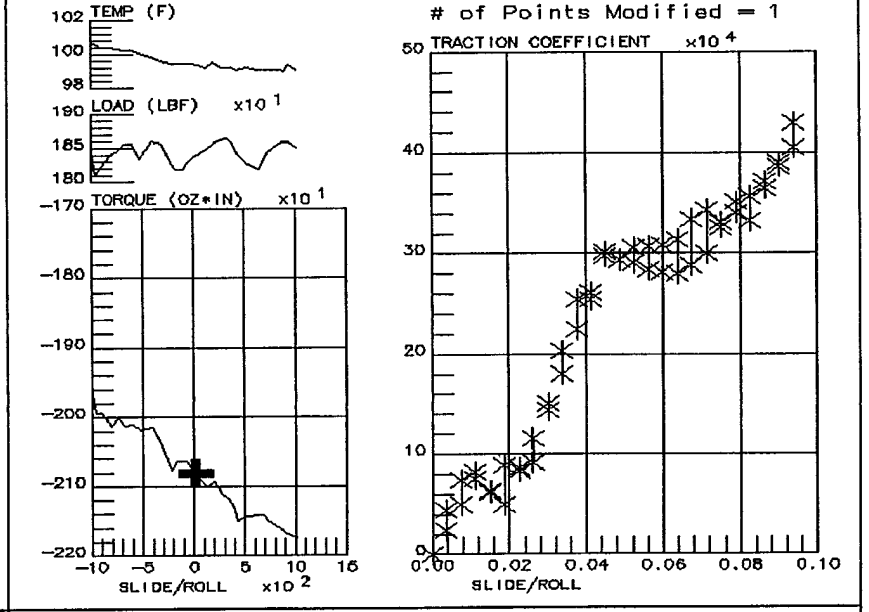
CP 90-715 ~300 Hatcol 3110 #51
100F 62LBF 660RPM 9 FILE: cp1001

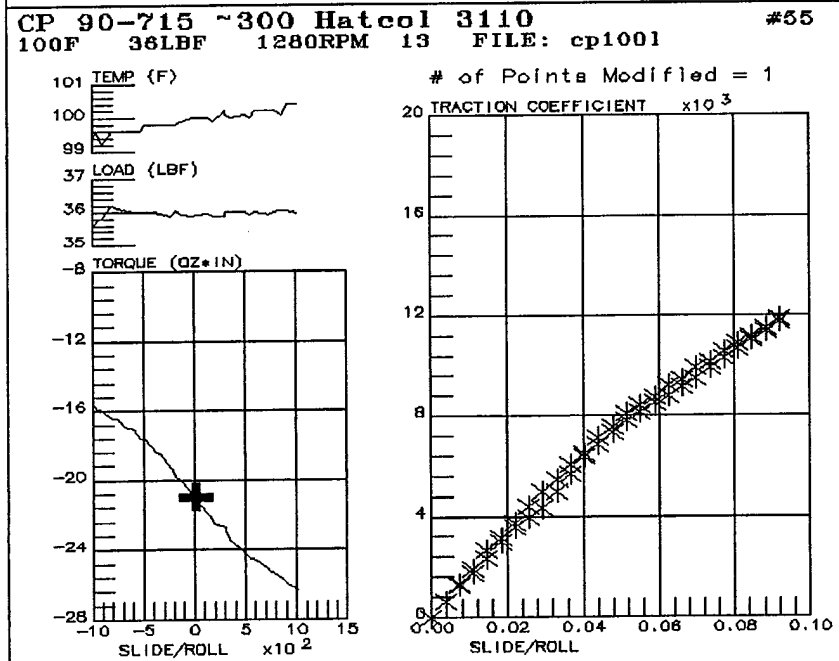


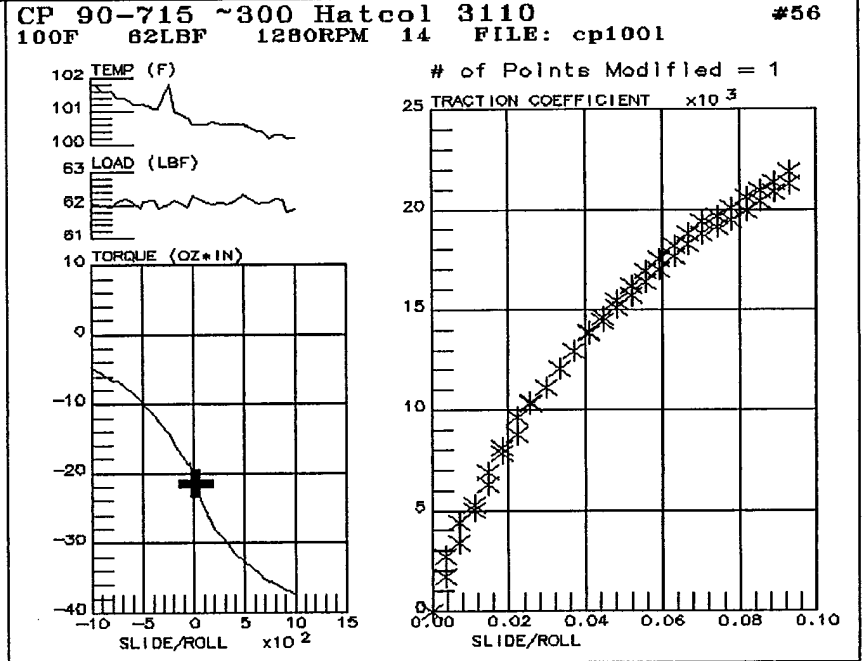
CP 90-715 ~300 Hatcol 3110 #52
100F 99LBF 660RPM 10 FILE: cp1001



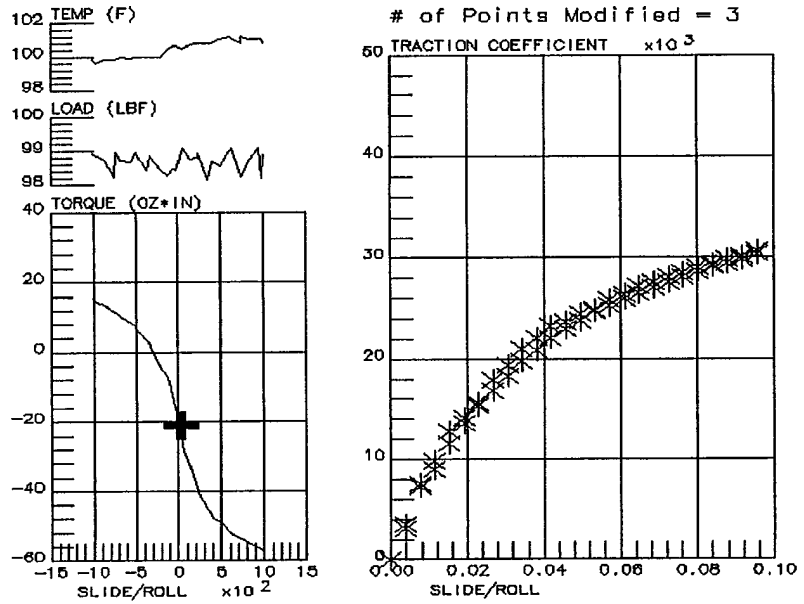

CP 90-715 ~300 Hatcol 3110 #53
100F 8LBF 1280RPM 11 FILE: cp1001
# of Points Modified = 0
TEMP (F) x10 1
LOAD (LBF) x10 2
TORQUE (OZ*IN) x10 1
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 4
SLIDE/ROLL


CP 90-715 ~300 Hatcol 3110 #54
100F 18LBF 1280RPM 12 FILE: cp1001
# of Points Modified = 1
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN) x10 1
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 4
SLIDE/ROLL

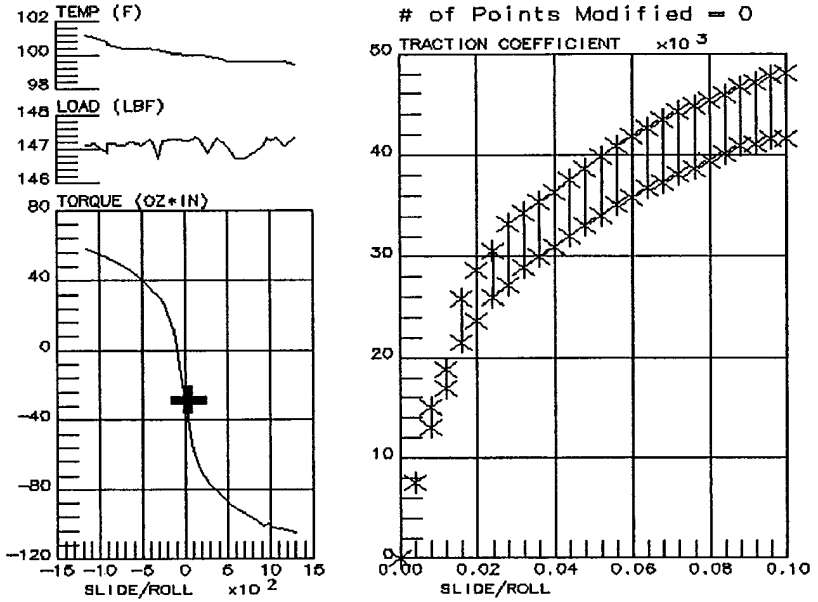

CP 90-715 ~300 Hatcol 3110 #55
100F 36LBF 1280RPM 13 FILE: cp1001
# of Points Modified = 1
TEMP (F)
LOAD (LBF)
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL


CP 90-715 ~300 Hatcol 3110 #56
100F 62LBF 1280RPM 14 FILE: cp1001
# of Points Modified = 1
TEMP (F)
LOAD (LBF)
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL

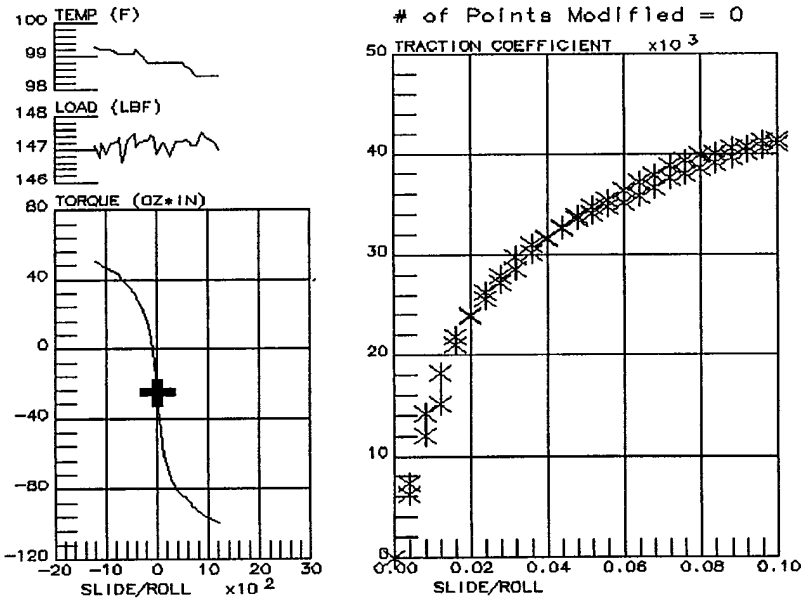
CP 90-715 ~300 Hatcol 3110 #57
100F 99LBF 1280RPM 15 FILE: cp1001



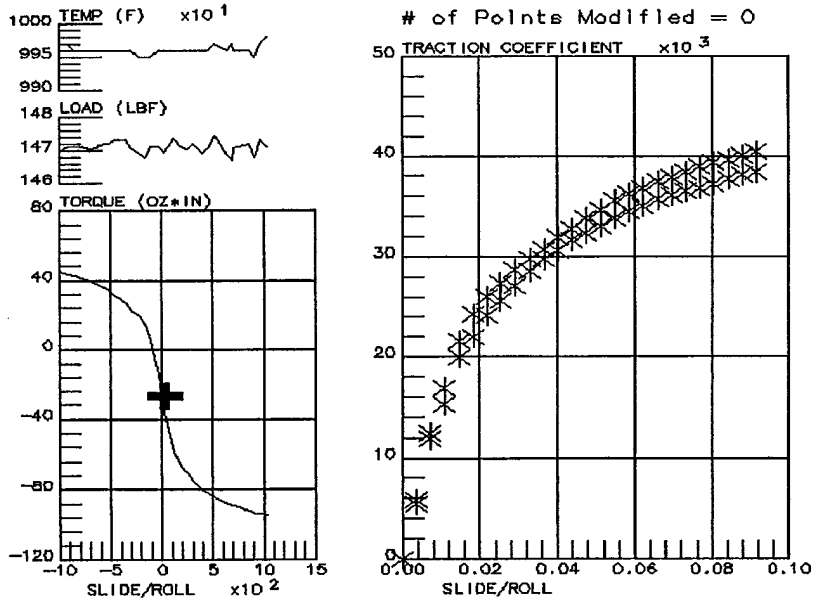
CP 90-715 ~300 Hatcol 3110 #58
100F 147LBF 310RPM 1 FILE: cp1001x

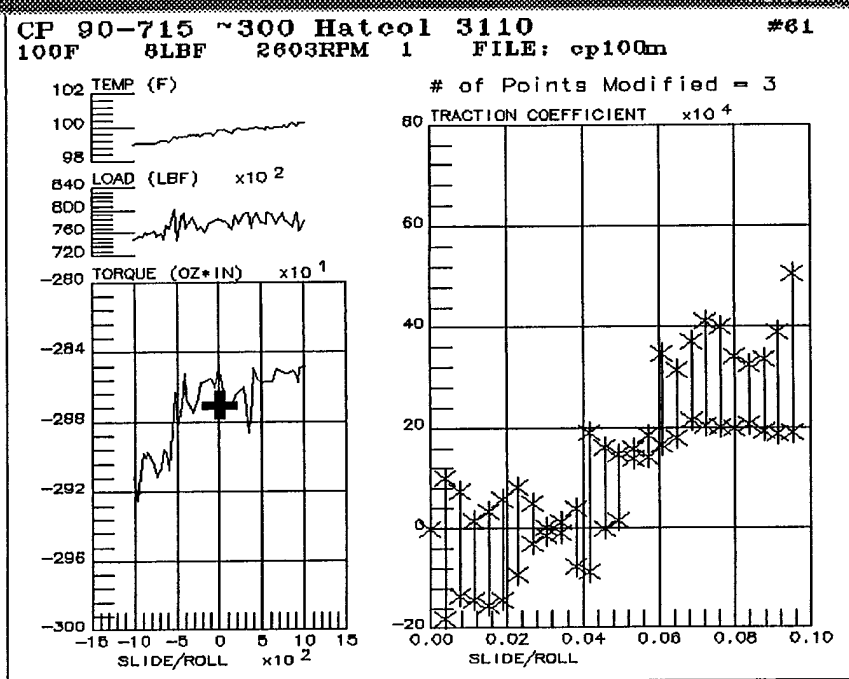


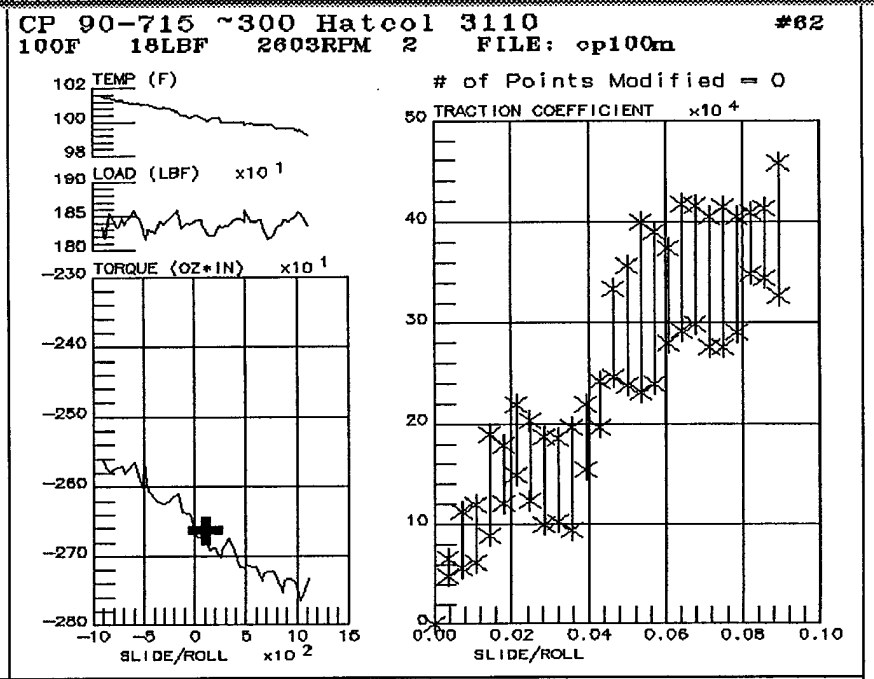
CP 90-715 ~300 Hatcol 3110 #59
100F 147LBF 660RPM 2 FILE: cp1001x

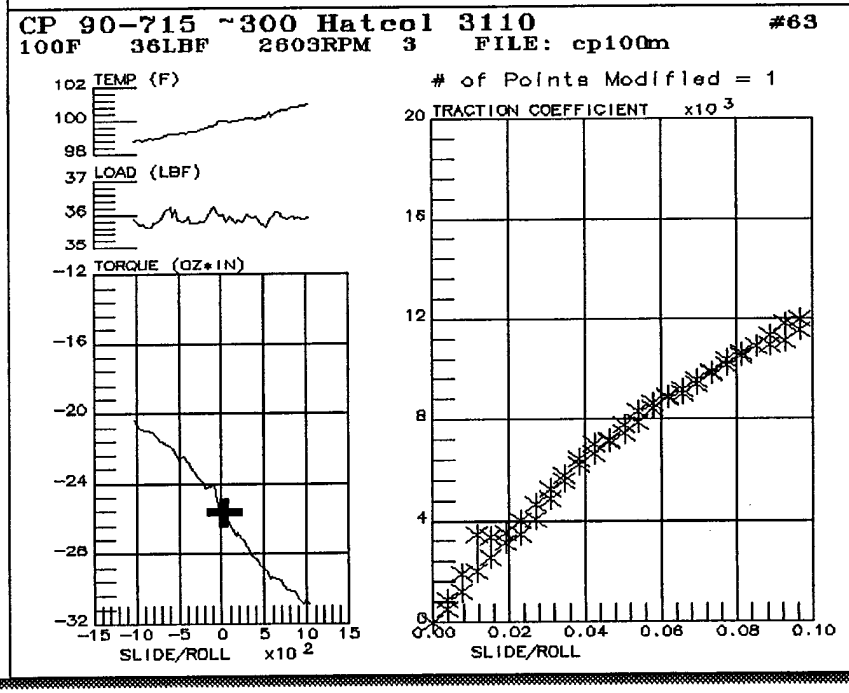


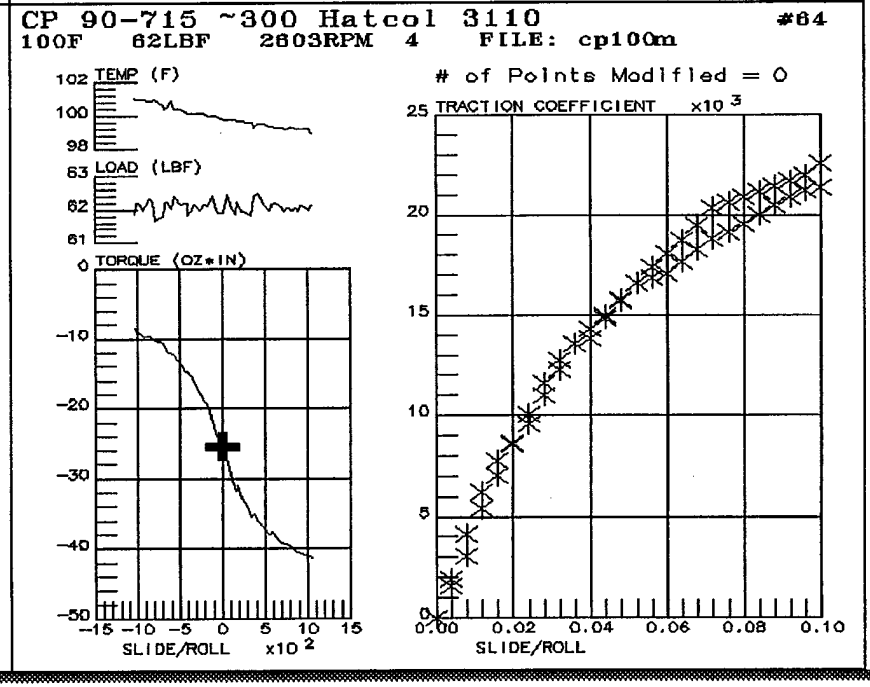
CP 90-715 ~300 Hatcol 3110 #60
100F 147LBF 1280RPM 3 FILE: cp1001x



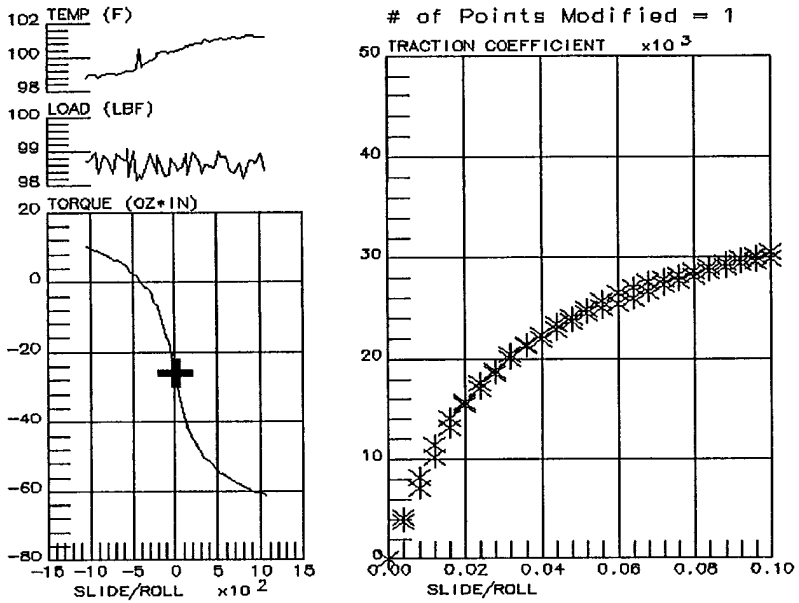

CP 90-715 ~300 Hatcol 3110 #61
100F 8LBF 2603RPM 1 FILE: cp100m
# of Points Modified = 3
TEMP (F)
LOAD (LBF) x10 2
TORQUE (OZ*IN) x10 1
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 4
SLIDE/ROLL


CP 90-715 ~300 Hatcol 3110 #62
100F 18LBF 2603RPM 2 FILE: cp100m
# of Points Modified = 0
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN) x10 1
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 4
SLIDE/ROLL

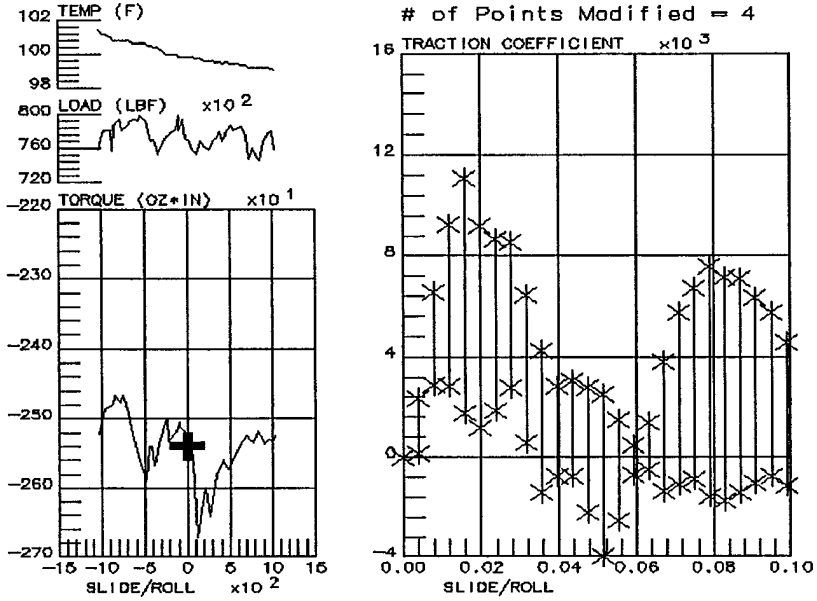

CP 90-715 ~300 Hatcol 3110 #63
100F 36LBF 2603RPM 3 FILE: cp100m
# of Points Modified = 1
TEMP (F)
LOAD (LBF)
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL


CP 90-715 ~300 Hatcol 3110 #64
100F 62LBF 2603RPM 4 FILE: cp100m
# of Points Modified = 0
TEMP (F)
LOAD (LBF)
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL

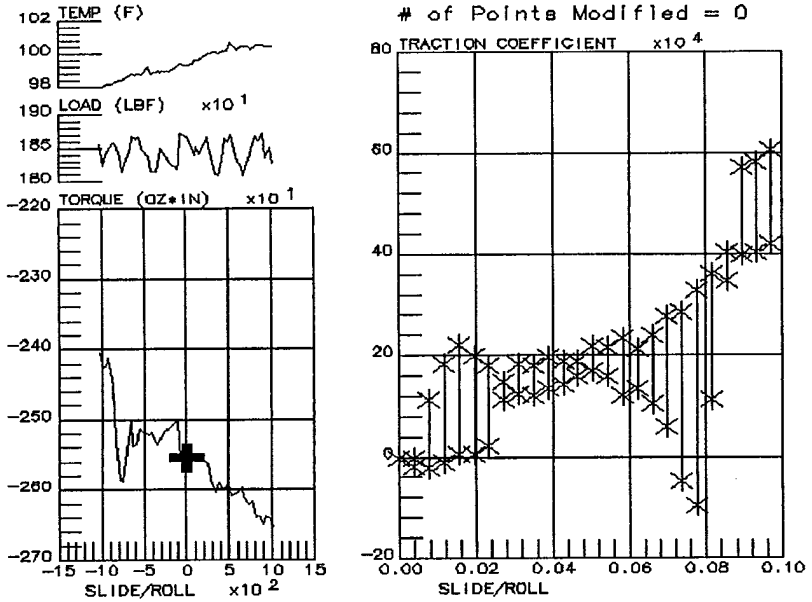
CP 90-715 ~300 Hatcol 3110 #65
100F 99LBF 2603RPM 5 FILE: cp100m



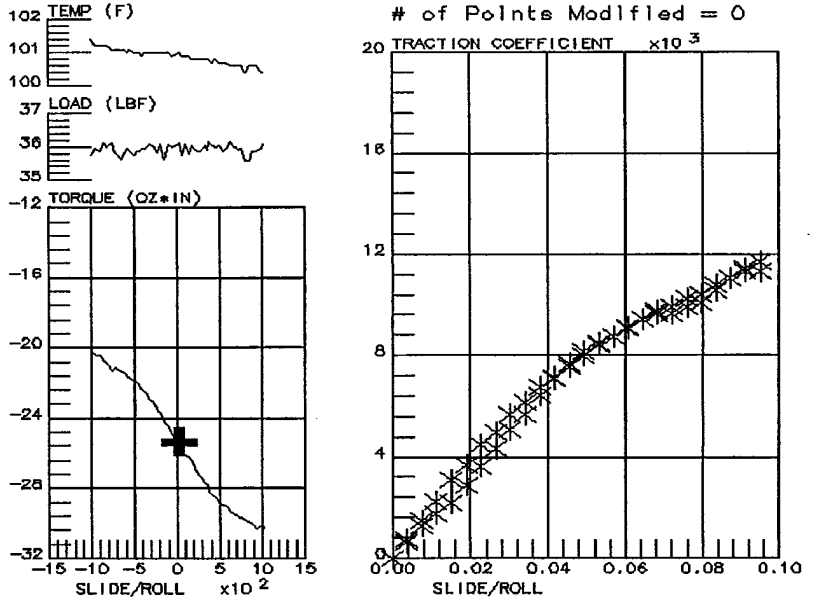
CP 90-715 ~300 Hatcol 3110 #66
100F 8LBF 5165RPM 6 FILE: cp100m



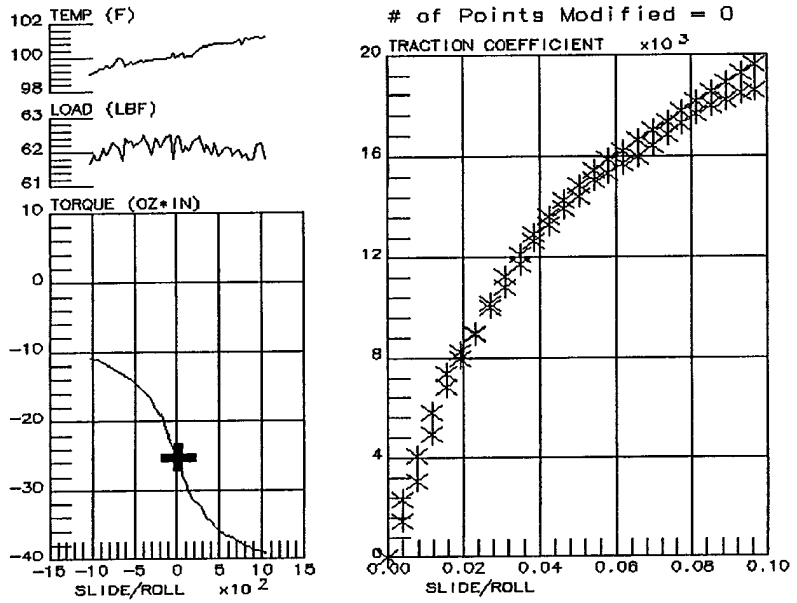
CP 90-715 ~300 Hatcol 3110 #67
100F 18LBF 5165RPM 7 FILE: cp100m



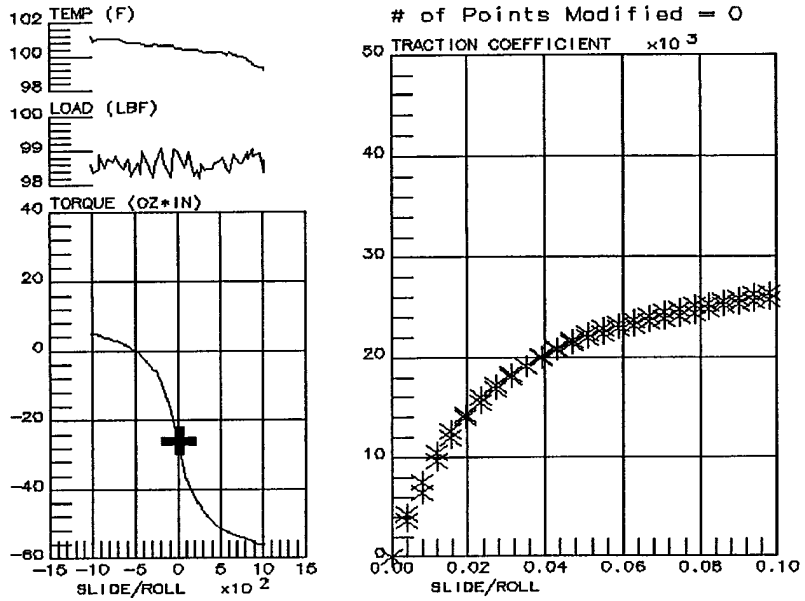
CP 90-715 ~300 Hatcol 3110 #68
100F 36LBF 5165RPM 8 FILE: cp100m



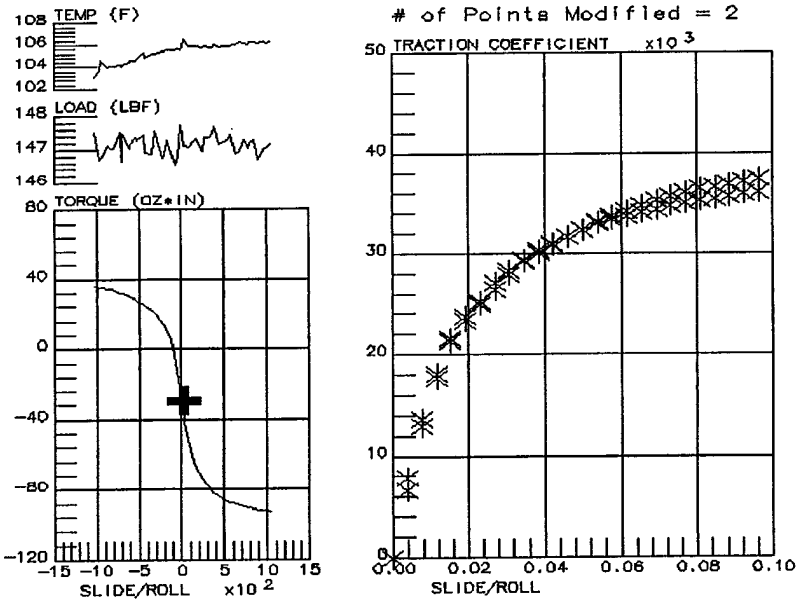
CP 90-715 ~300 Hatcol 3110 #69
100F 62LBF 5165RPM 9 FILE: cp100m



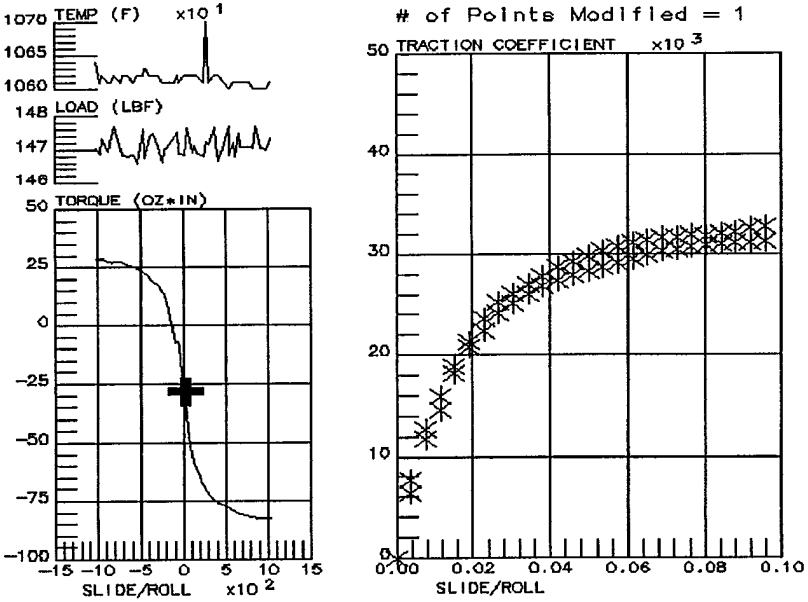
CP 90-715 ~300 Hatcol 3110 #70
100F 99LBF 5165RPM 10 FILE: cp100m



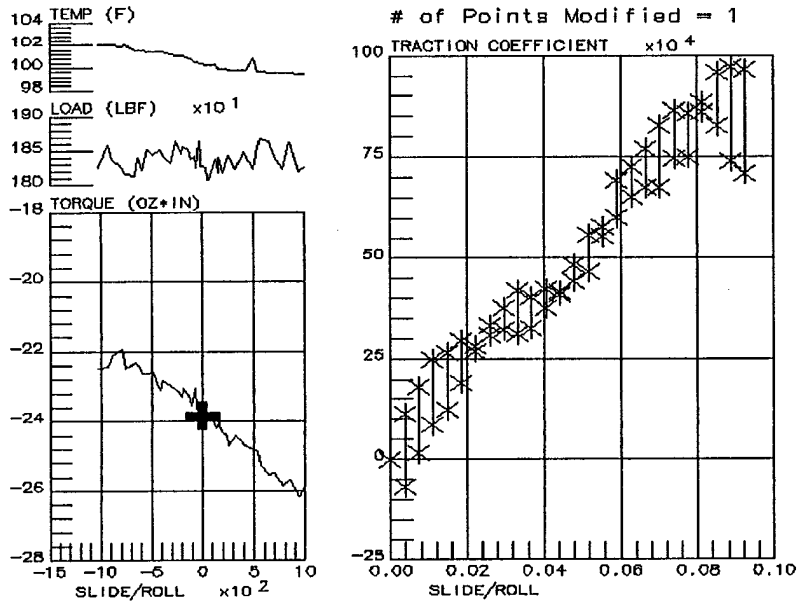
CP 90-715 ~300 Hatcol 3110 #71
100F 147LBF 2603RPM 1 FILE: cp100mx



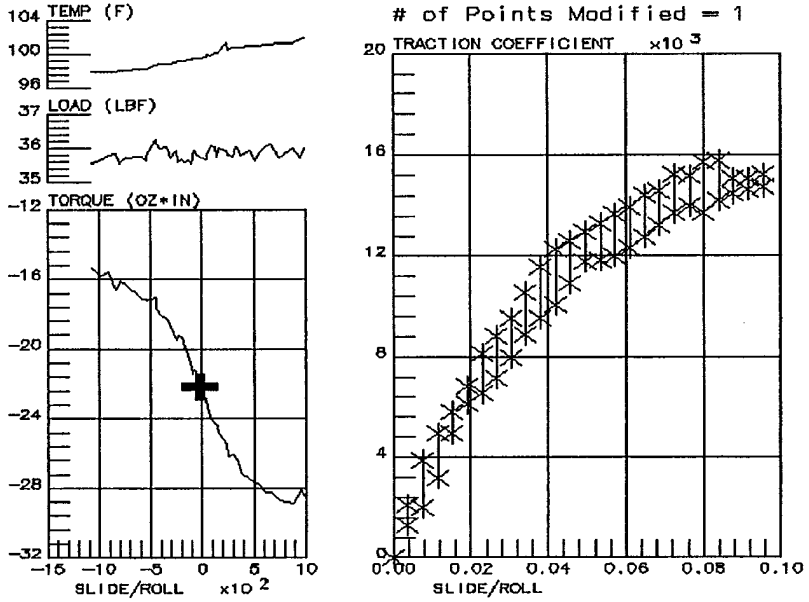
CP 90-715 ~300 Hatcol 3110 #72
100F 147LBF 5165RPM 2 FILE: cp100mx



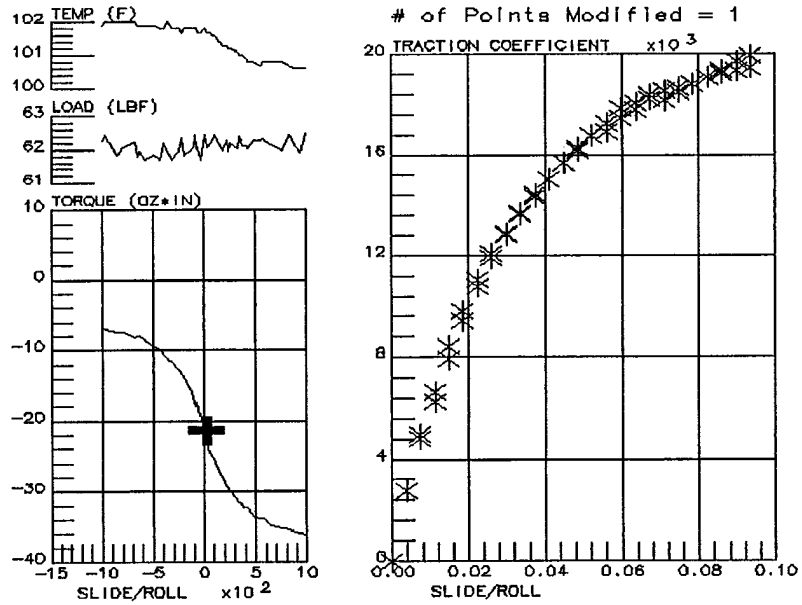
CP 90-715 ~300 Hatcol 3110 #73
100F 18LBF 7770RPM 1 FILE: cp100h



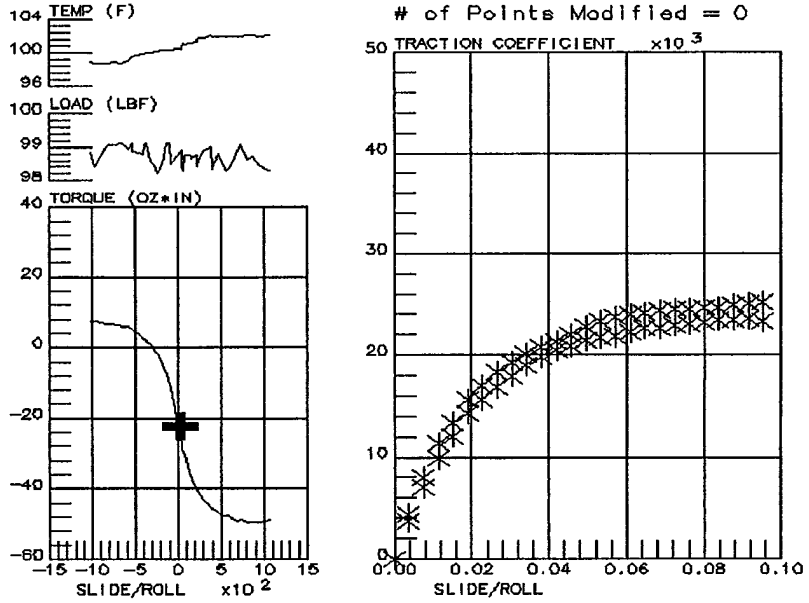
CP 90-715 ~300 Hatcol 3110 #74
100F 36LBF 7770RPM 2 FILE: cp100h



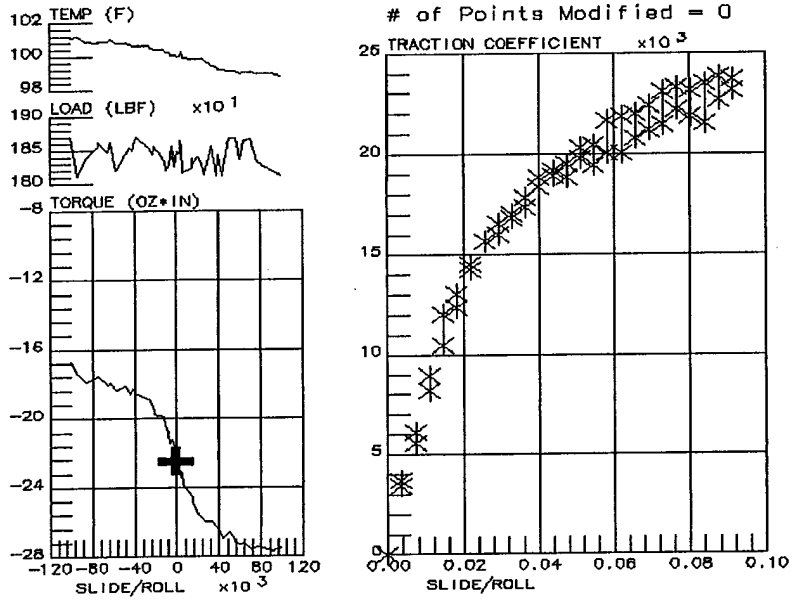
CP 90-715 ~300 Hatcol 3110 #75
100F 62LBF 7770RPM 3 FILE: cp100h



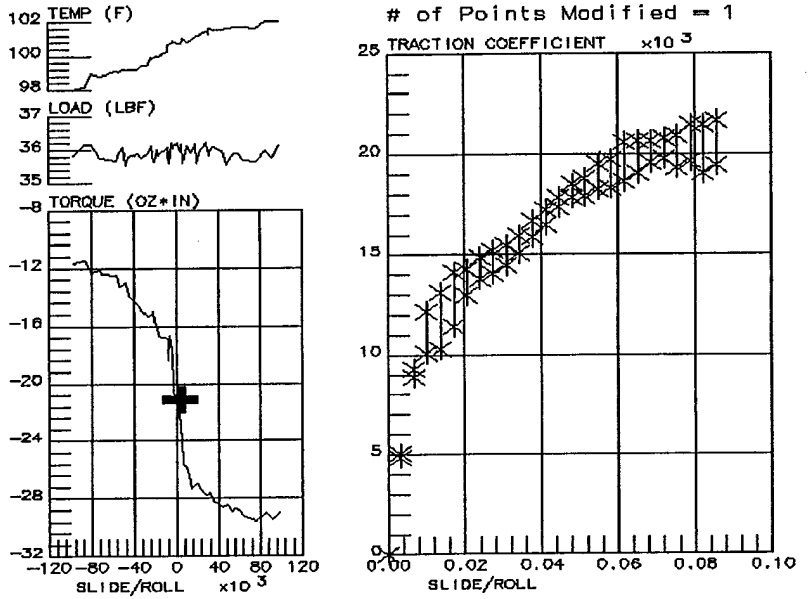
CP 90-715 ~300 Hatcol 3110 #76
100F 99LBF 7770RPM 4 FILE: cp100h



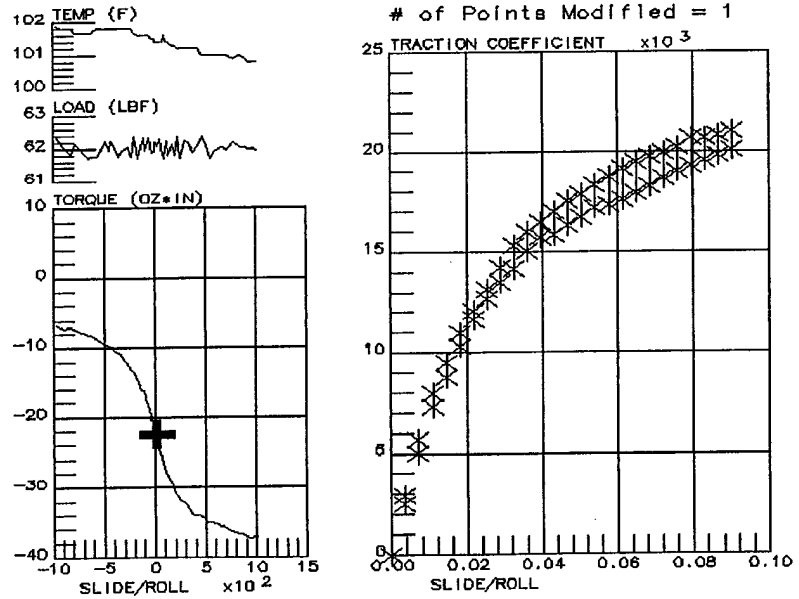
CP 90-715 ~300 Hatcol 3110 #77
100F 18LBF 10370RPM 5 FILE: cp100h



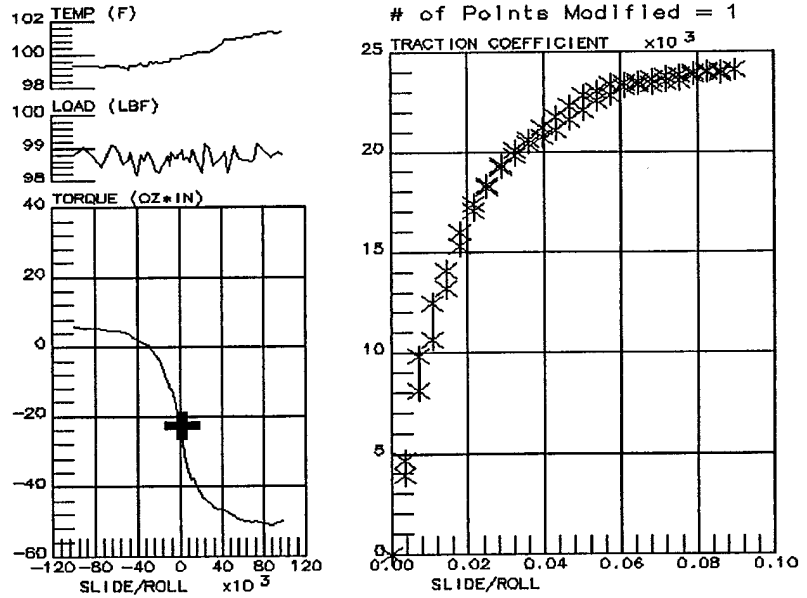
CP 90-715 ~300 Hatcol 3110 #78
100F 36LBF 10370RPM 6 FILE: cp100h



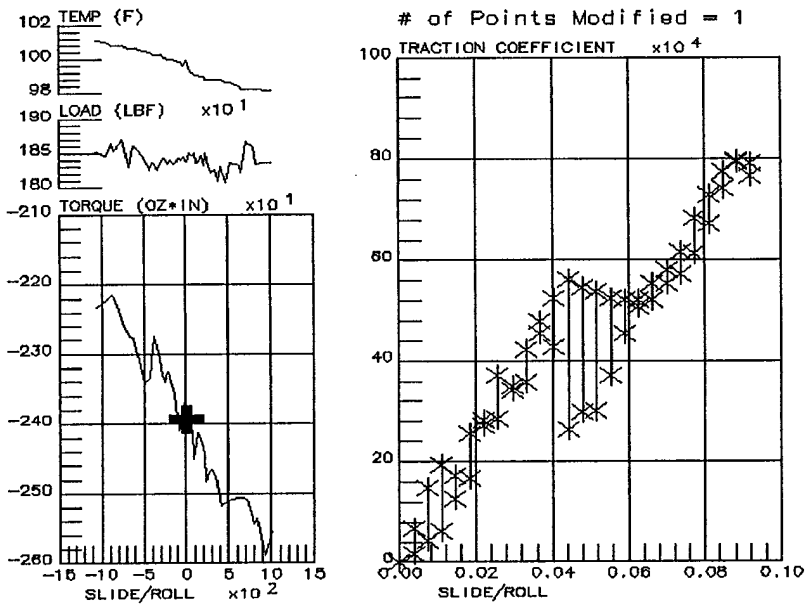
CP 90-715 ~300 Hatcol 3110 #79
100F 62LBF 10370RPM 7 FILE: cp100h



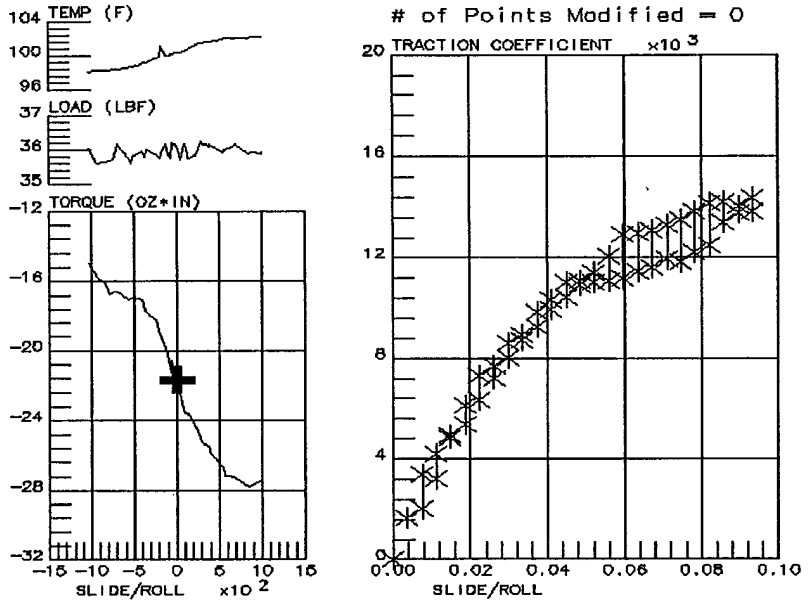
CP 90-715 ~300 Hatcol 3110 #80
100F 99LBF 10370RPM 8 FILE: cp100h



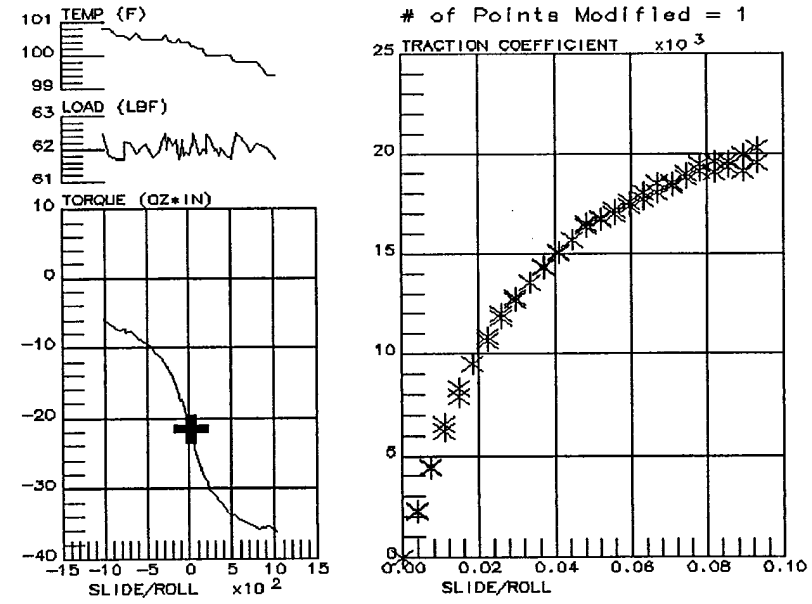
CP 90-715 ~300 Hatcol 3110 #81
100F 18LBF 7770RPM 1 FILE: cp100hxx



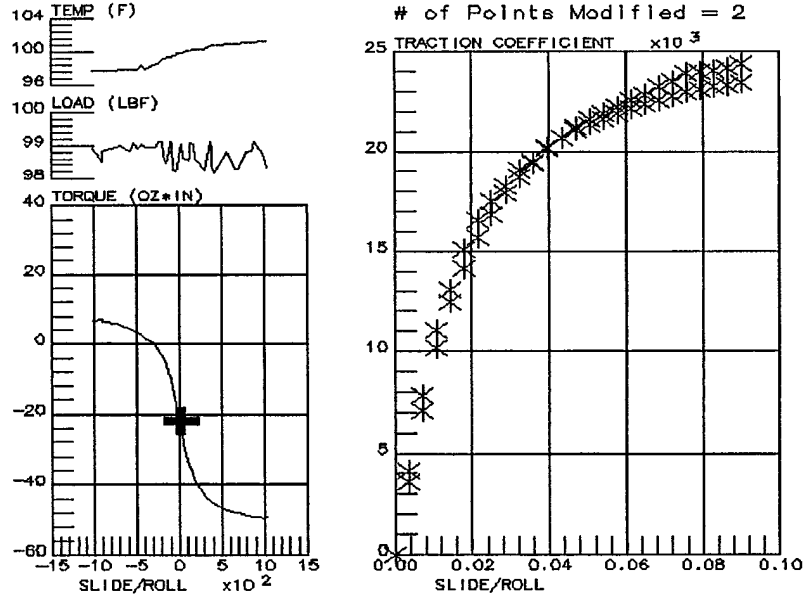
CP 90-715 ~300 Hatcol 3110 #82
100F 36LBF 7770RPM 2 FILE: cp100hxx



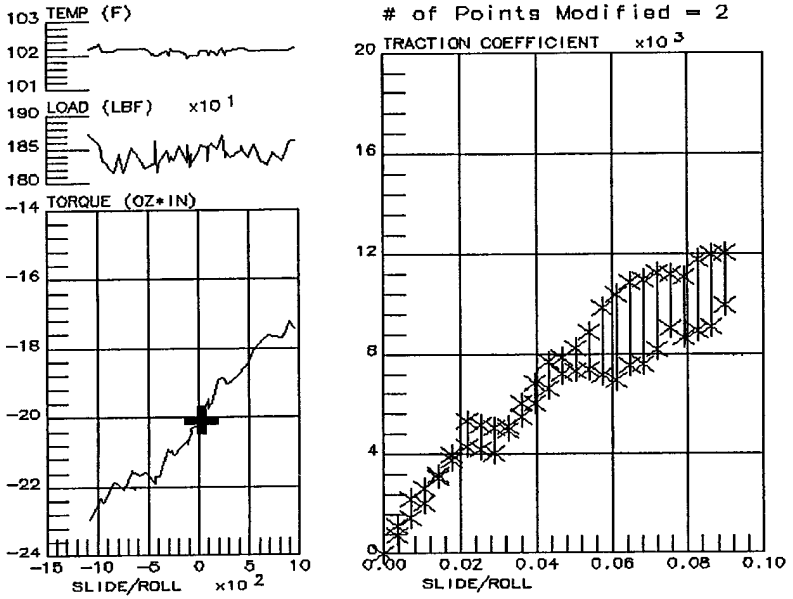
CP 90-715 ~300 Hatcol 3110 #83
100F 62LBF 7770RPM 3 FILE: cp100hxx



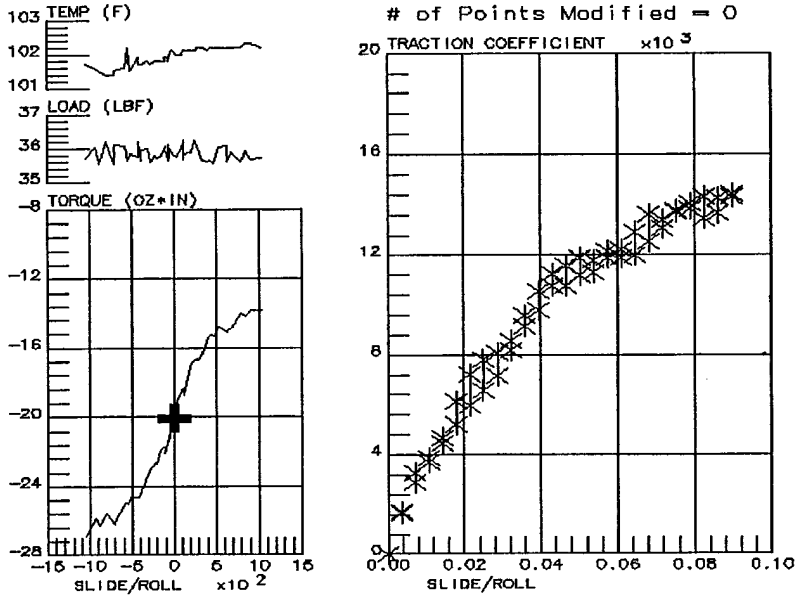
CP 90-715 ~300 Hatcol 3110 #84
100F 99LBF 7770RPM 4 FILE: cp100hxx



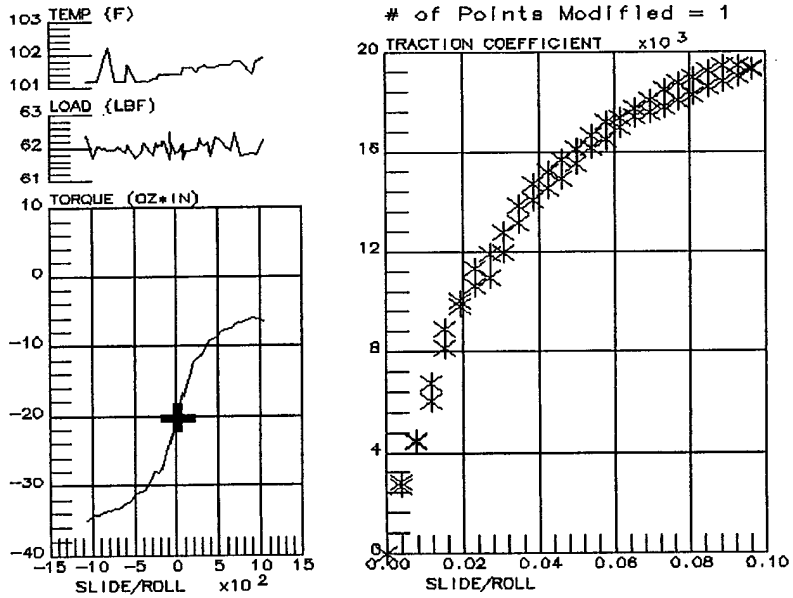
CP 90-715 ~300 Hatcol 3110 #85
100F 18LBF 7770RPM 5 FILE: cp100hxx



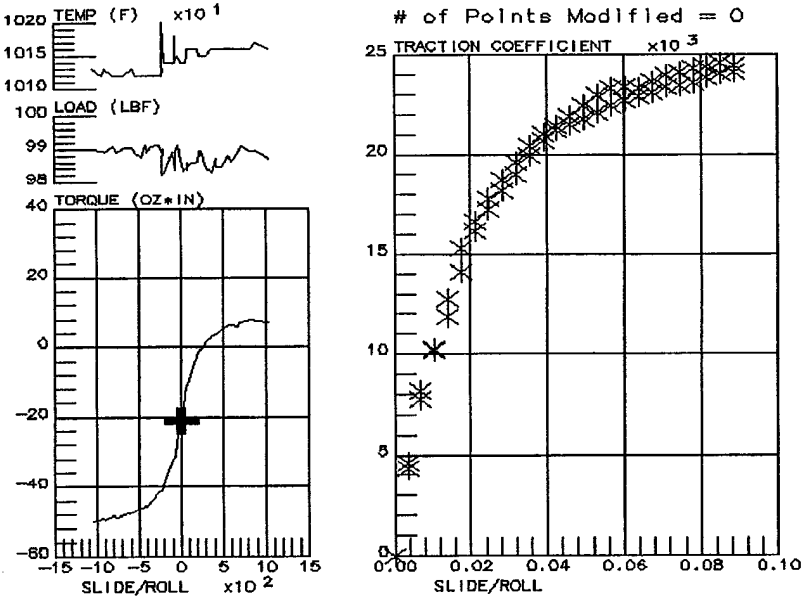
CP 90-715 ~300 Hatcol 3110 #86
100F 36LBF 7770RPM 6 FILE: cp100hxx



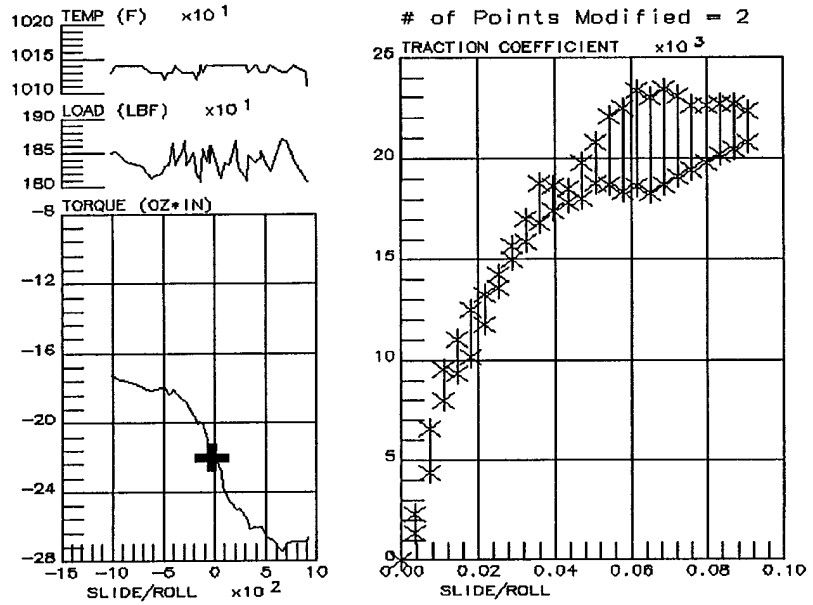
CP 90-715 ~300 Hatcol 3110 #87
100F 62LBF 7770RPM 7 FILE: cp100hxx



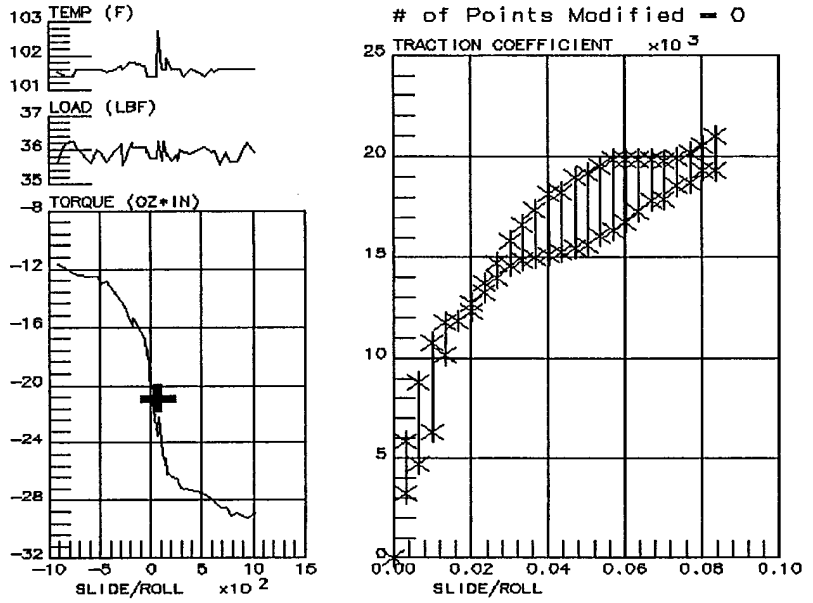
CP 90-715 ~300 Hatcol 3110 #88
100F 99LBF 7770RPM 8 FILE: cp100hxx



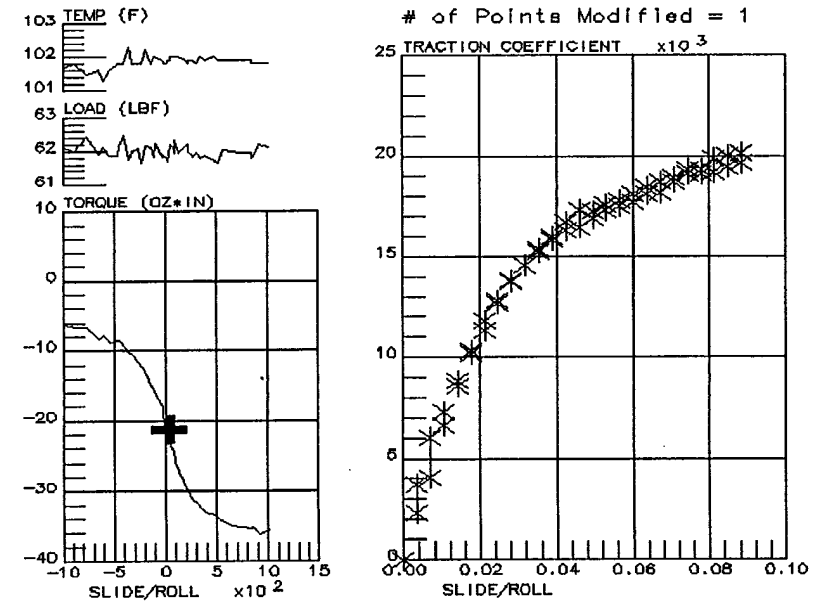
CP 90-715 ~300 Hatcol 3110 #89
100F 18LBF 10370RPM 9 FILE: cp100hxx



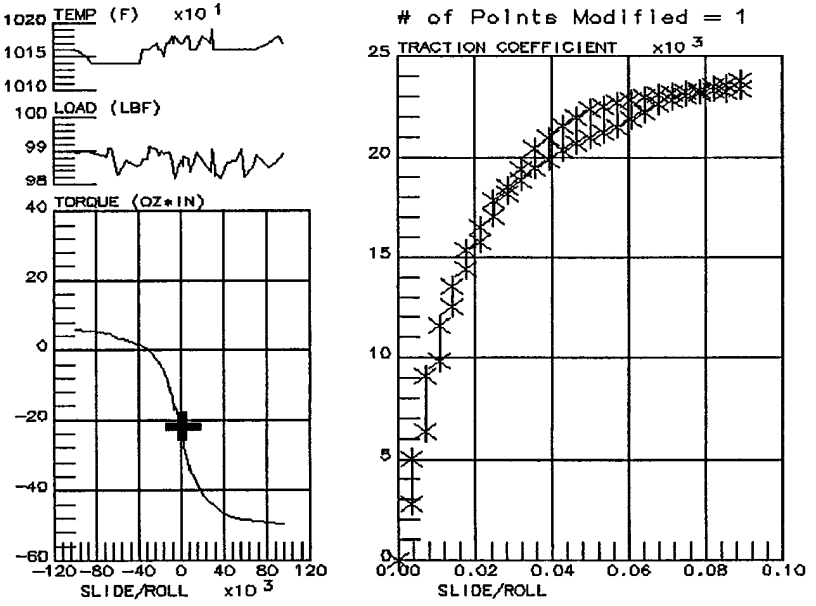
CP 90-715 ~300 Hatcol 3110 #90
100F 36LBF 10370RPM 10 FILE: cp100hxx



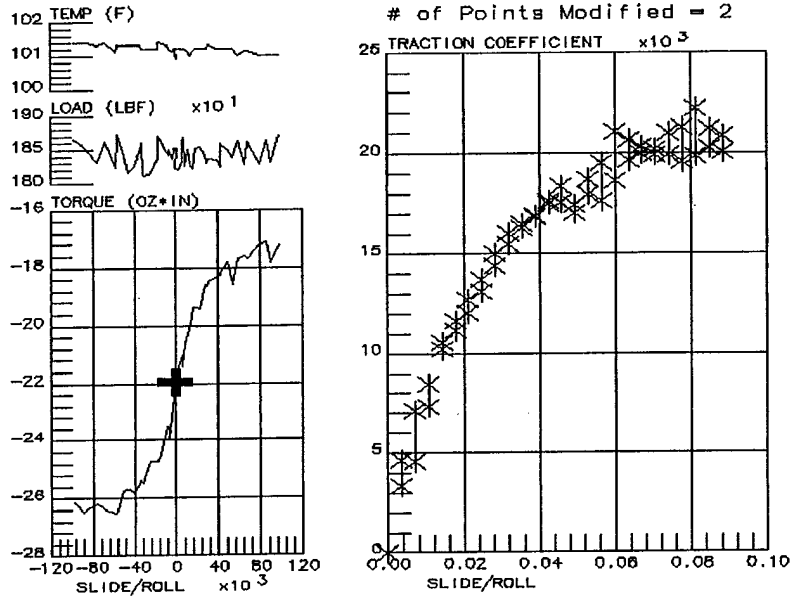
CP 90-715 ~300 Hatcol 3110 #91
100F 62LBF 10370RPM 11 FILE: cp100hxx



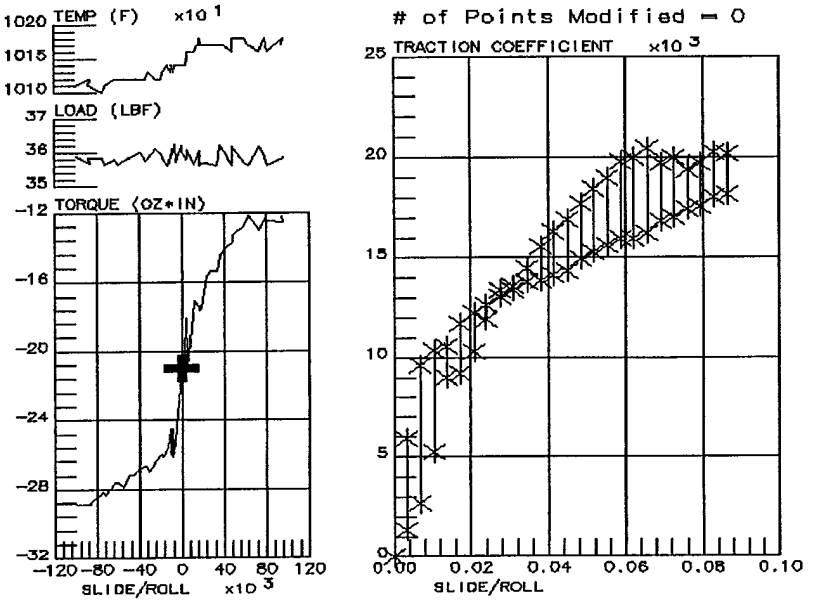
CP 90-715 ~300 Hatcol 3110 #92
100F 99LBF 10370RPM 12 FILE: cp100hxx



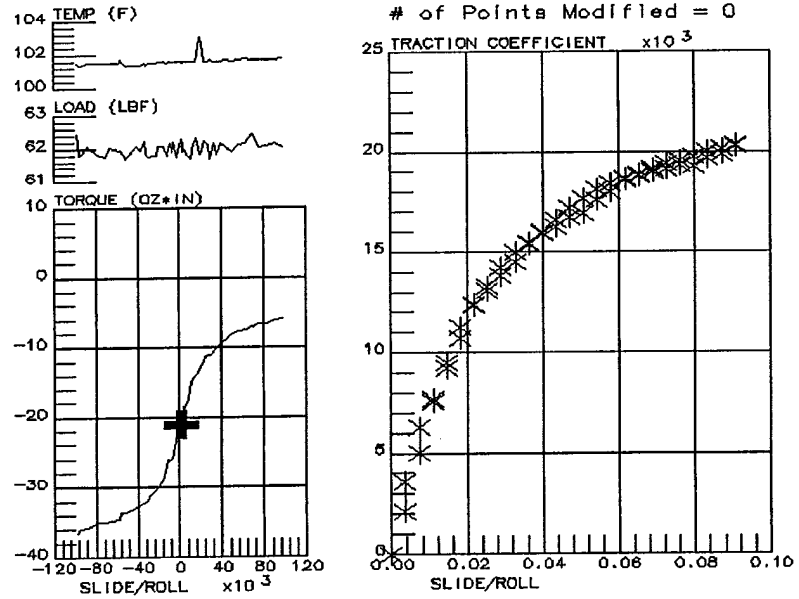
CP 90-715 ~300 Hatcol 3110 #93
100F 18LBF 10370RPM 13 FILE: cp100hxx



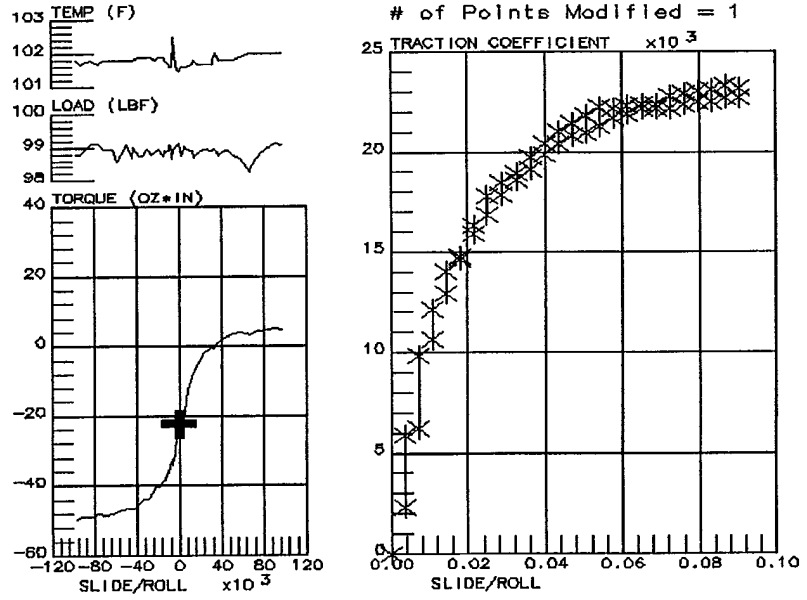
CP 90-715 ~300 Hatcol 3110 #94
100F 36LBF 10370RPM 14 FILE: cp100hxx



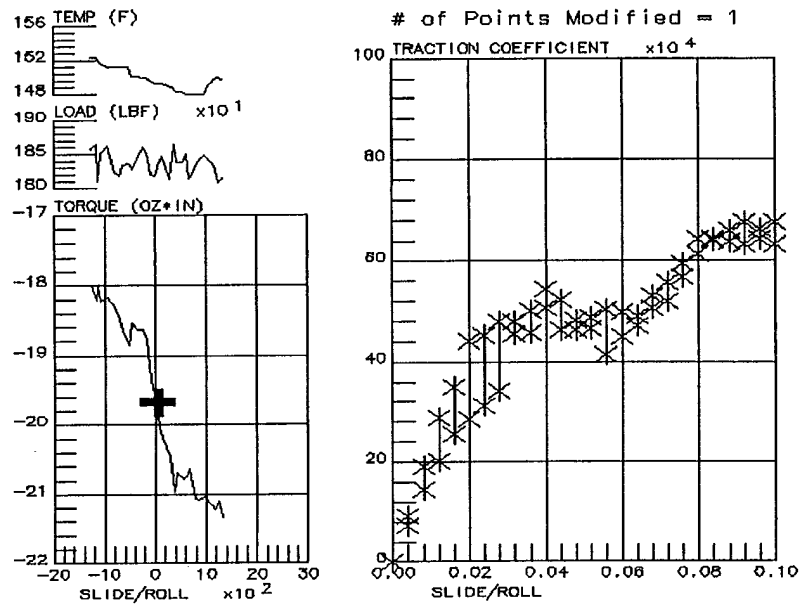
CP 90-715 ~300 Hatcol 3110 #95
100F 62LBF 10370RPM 15 FILE: cp100hxx



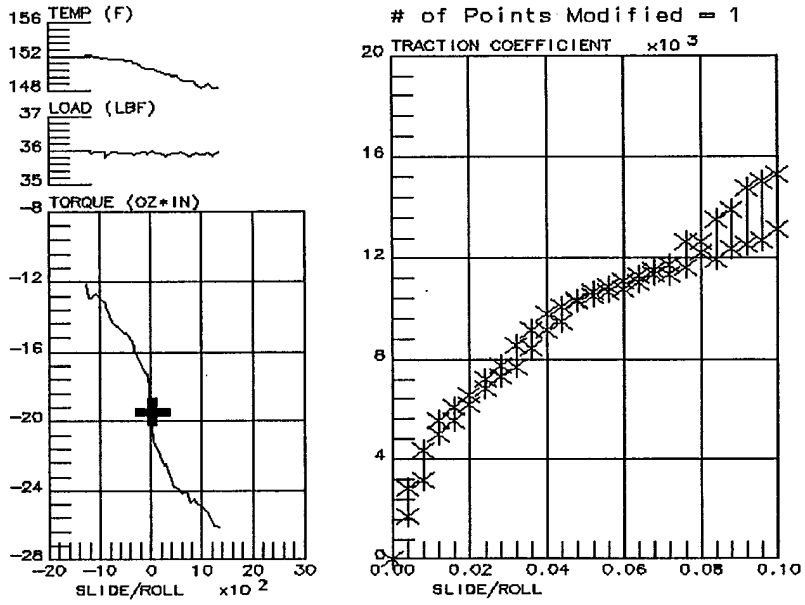
CP 90-715 ~300 Hatcol 3110 #96
100F 99LBF 10370RPM 16 FILE: cp100hxx



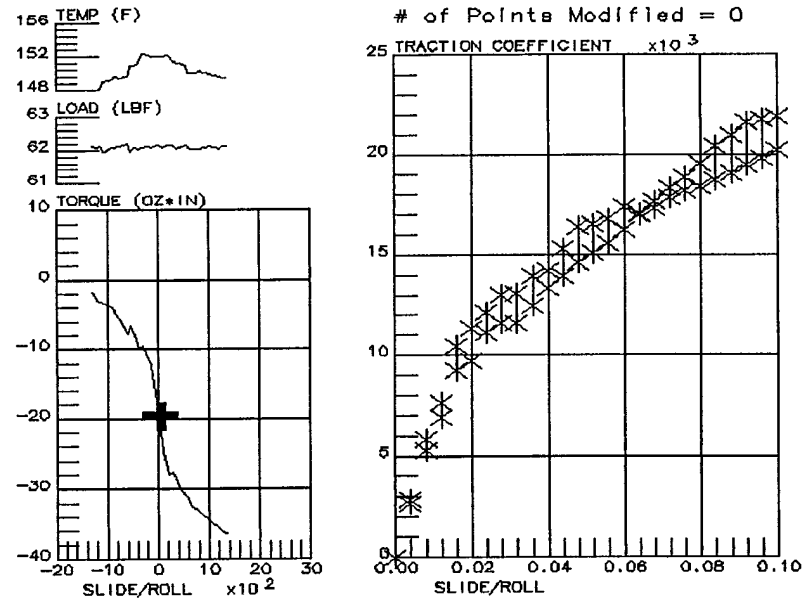
CP 90-715 ~300 Hatcol 3110 #97
150F 18LBF 310RPM 1 FILE: cp1501



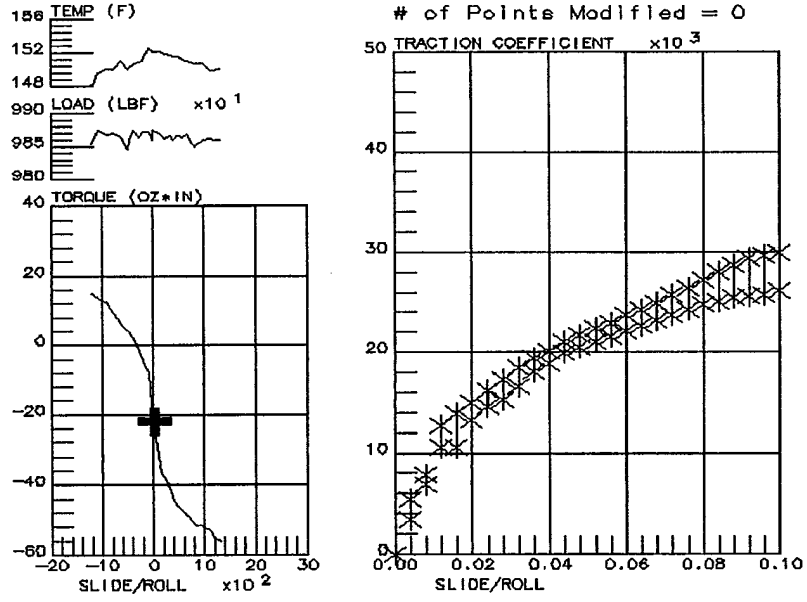
CP 90-715 ~300 Hatcol 3110 #98
150F 36LBF 310RPM 2 FILE: cp1501



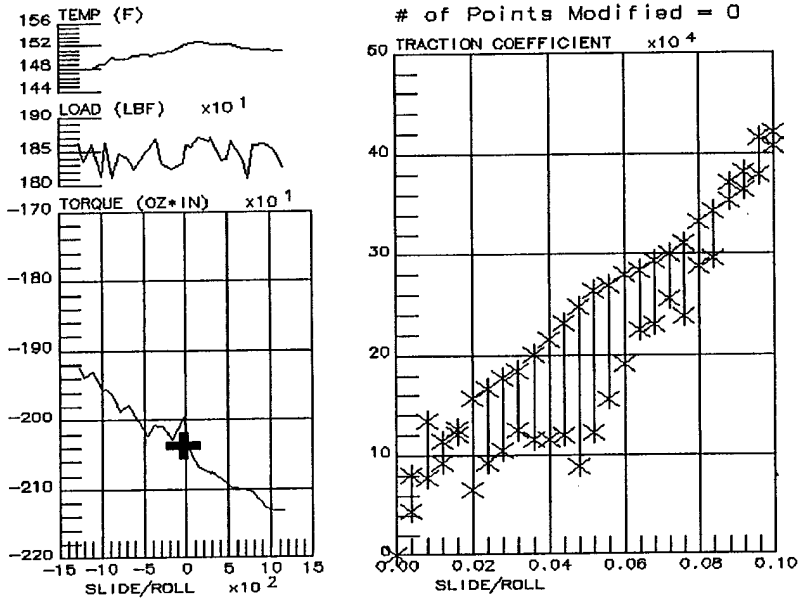
CP 90-715 ~300 Hatcol 3110 #99
150F 62LBF 310RPM 3 FILE: cp1501



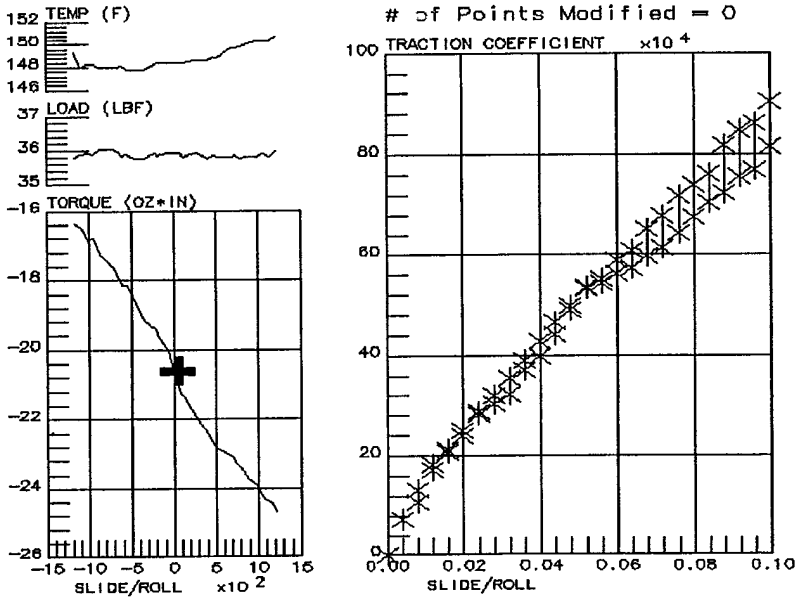
CP 90-715 ~300 Hatcol 3110 #100
150F 99LBF 310RPM 4 FILE: cp1501



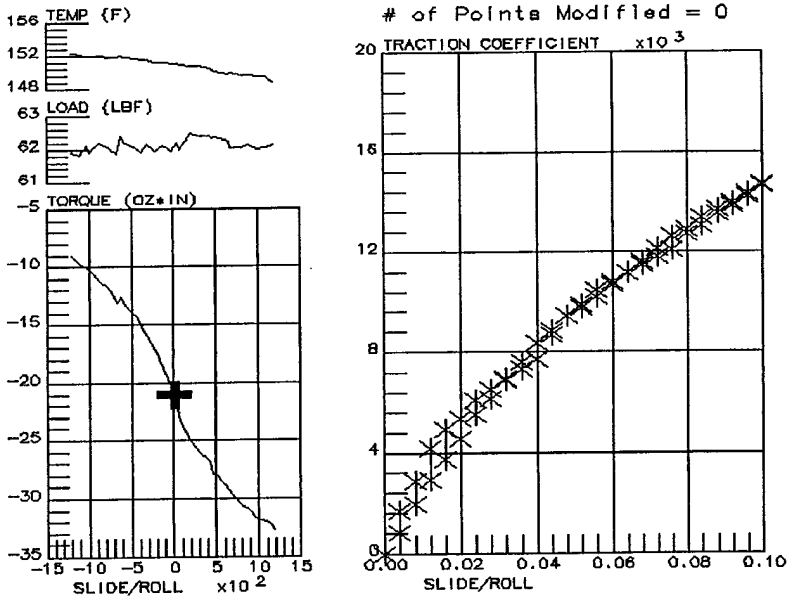
CP 90-715 ~300 Hatcol 3110 #101
150F 18LBF 660RPM 5 FILE: cp1501



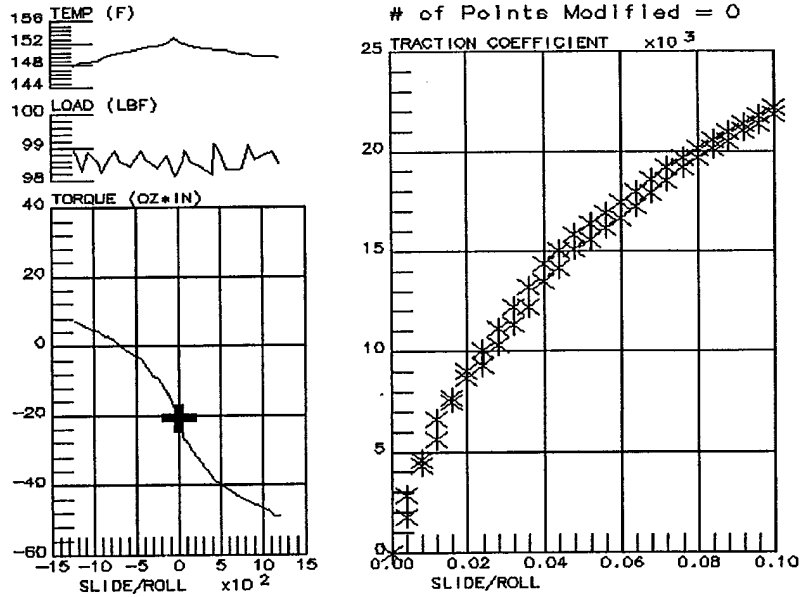
CP 90-715 ~300 Hatcol 3110 #102
150F 38LBF 660RPM 6 FILE: cp1501



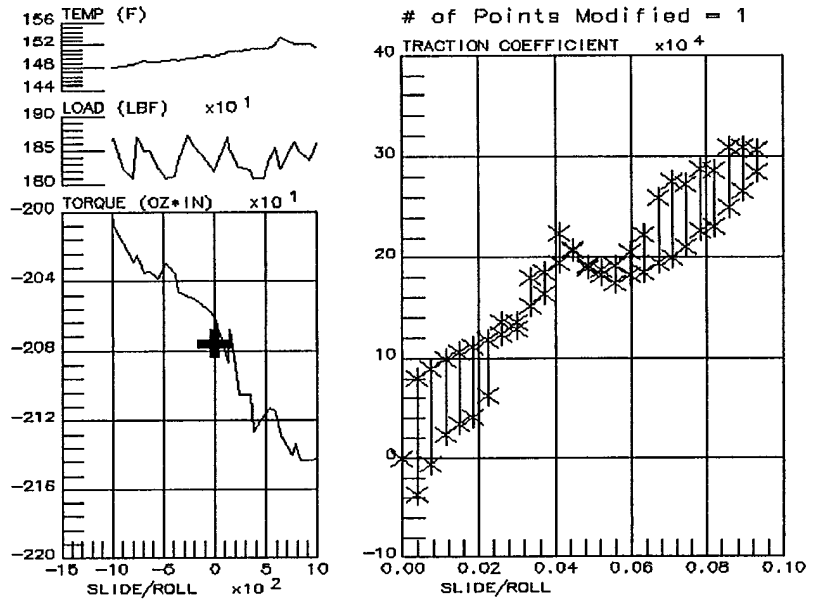
CP 90-715 ~300 Hatcol 3110 #103
150F 62LBF 660RPM 7 FILE: cp1501



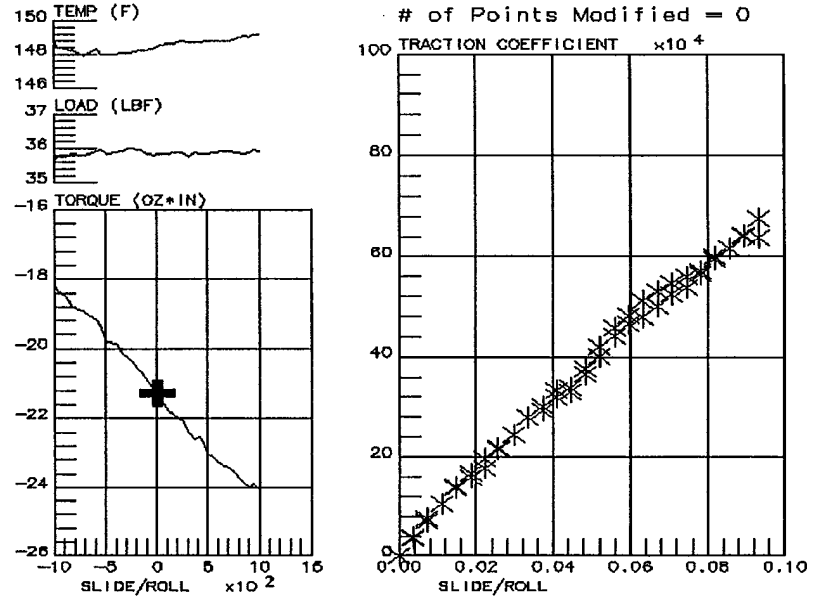
CP 90-715 ~300 Hatcol 3110 #104
150F 99LBF 660RPM 8 FILE: cp1501



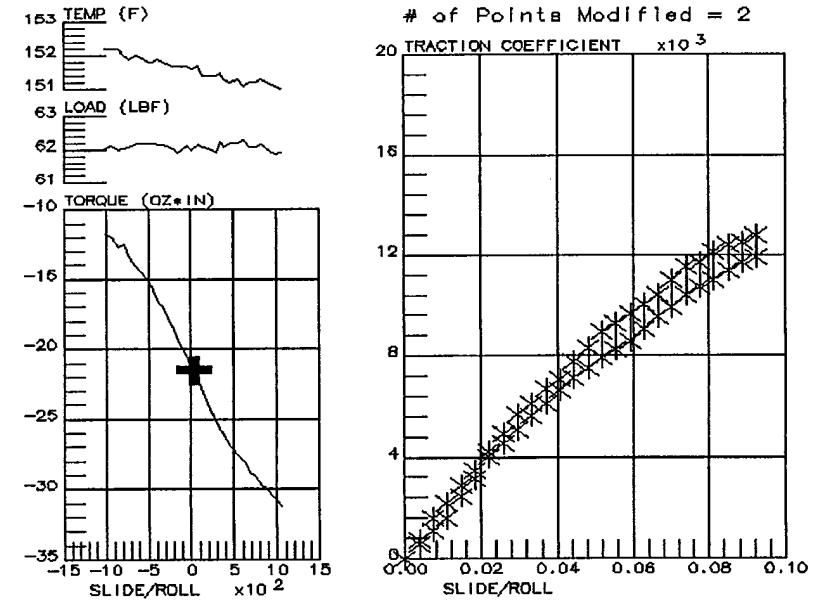
CP 90-715 ~300 Hatcol 3110 #105
150F 18LBF 1280RPM 9 FILE: cp1501



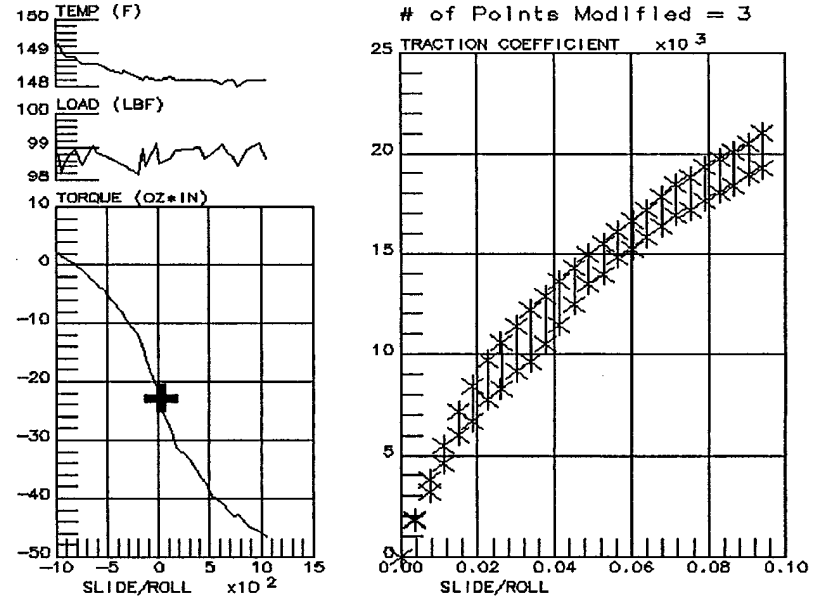
CP 90-715 ~300 Hatcol 3110 #106
150F 36LBF 1280RPM 10 FILE: cp1501



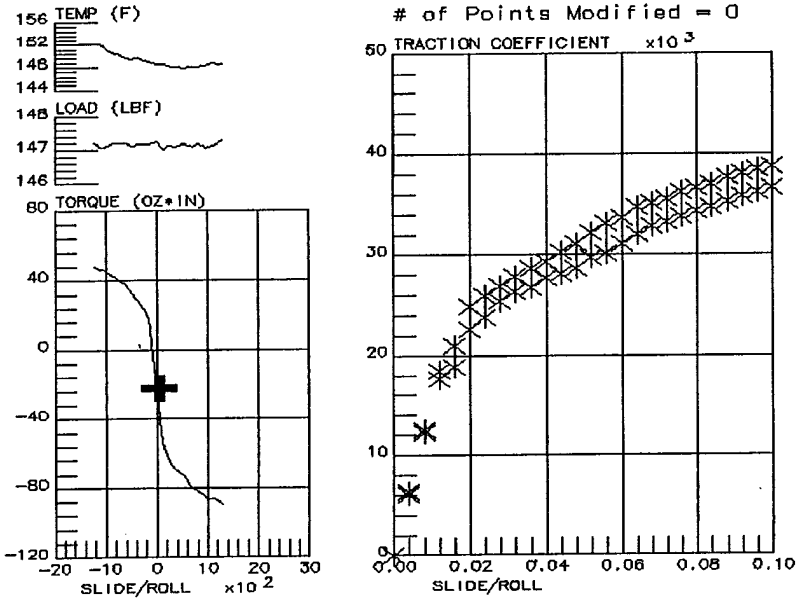
CP 90-715 ~300 Hatcol 3110 #107
150F 62LBF 1280RPM 11 FILE: cp1501



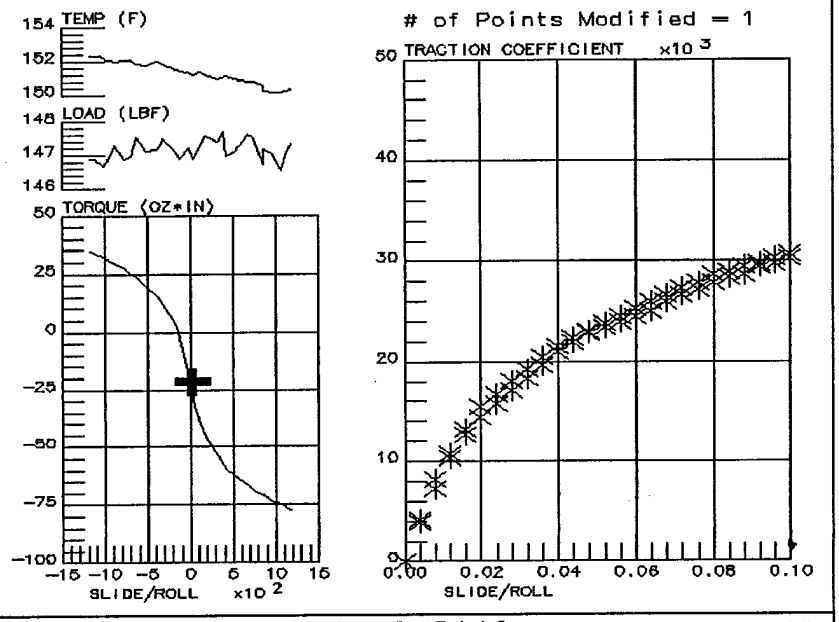
CP 90-715 ~300 Hatcol 3110 #108
150F 99LBF 1280RPM 12 FILE: cp1501



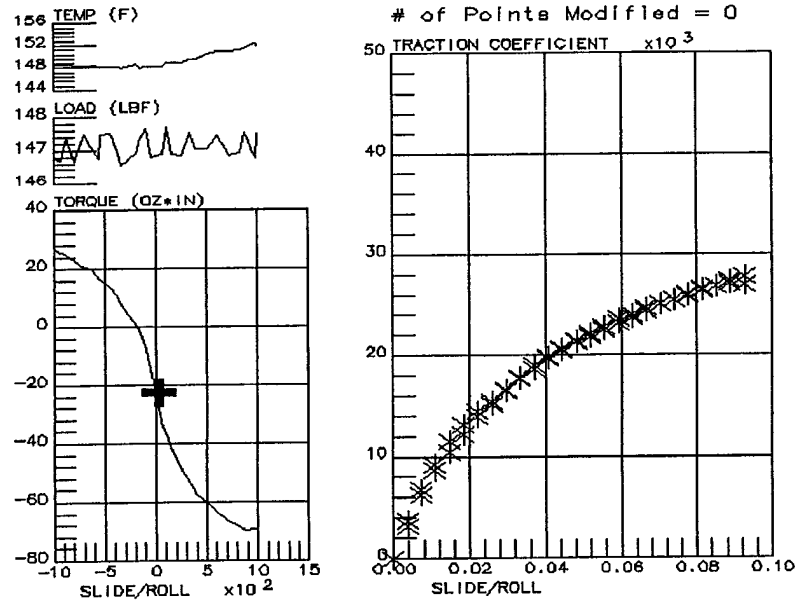
CP 90-715 ~300 Hatcol 3110 #109
150F 147LBF 310RPM 1 FILE: cp150lx



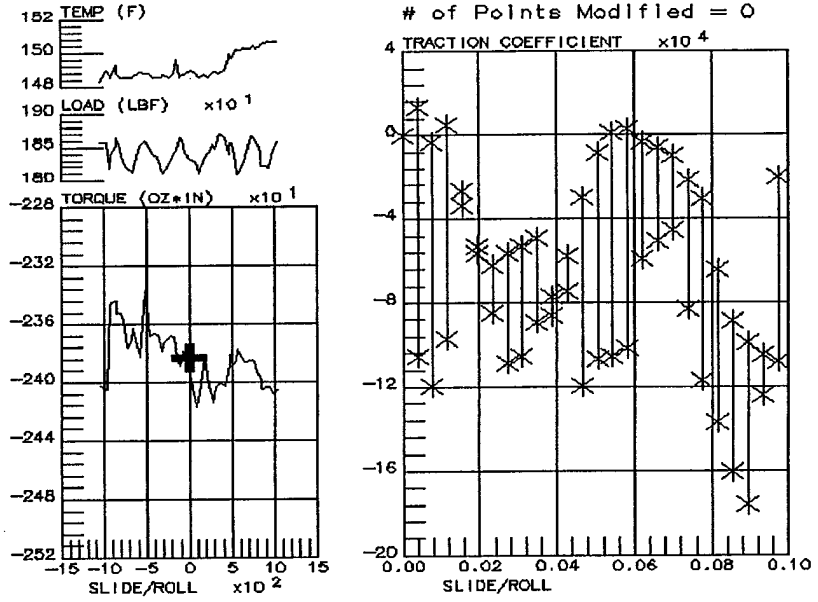
CP 90-715 ~300 Hatcol 3110 #110
150F 147LBF 660RPM 2 FILE: cp150lx



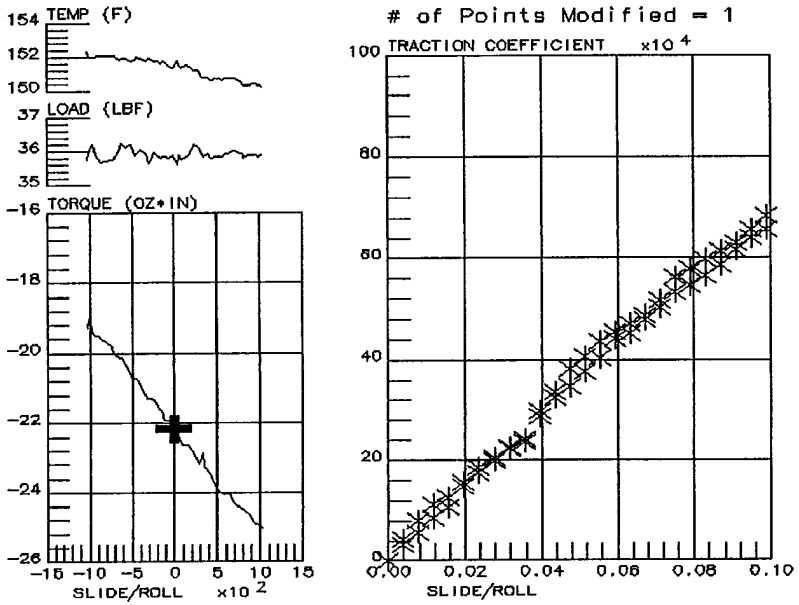
CP 90-715 ~300 Hatcol 3110 #111
150F 147LBF 1280RPM 3 FILE: cp150lx



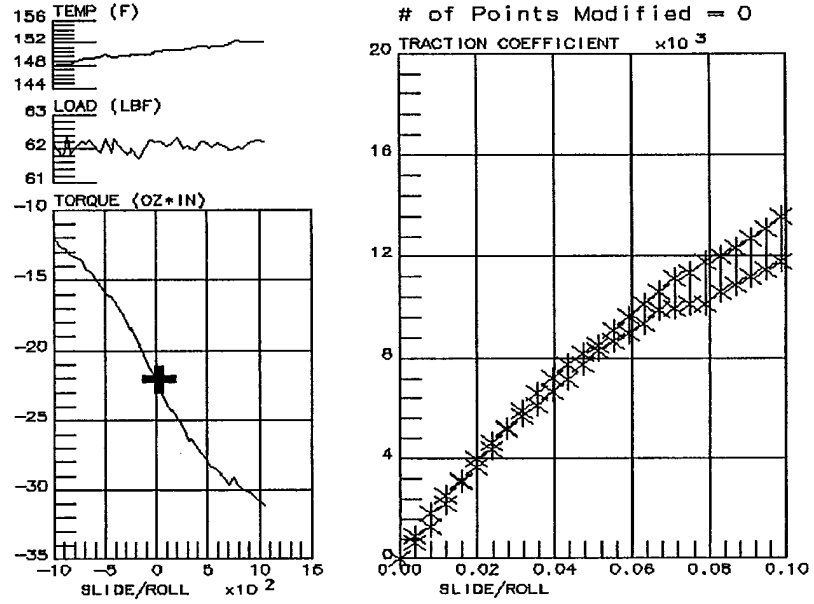
CP 90-715 ~300 Hatcol 3110 #112
150F 18LBF 2603RPM 1 FILE: cp150m



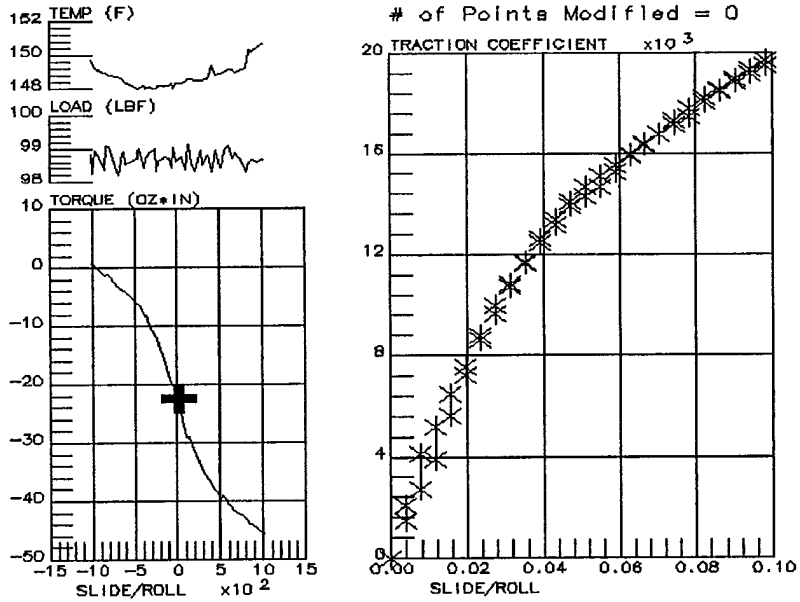
CP 90-715 ~300 Hatcol 3110 #113
150F 36LBF 2603RPM 2 FILE: cp150m



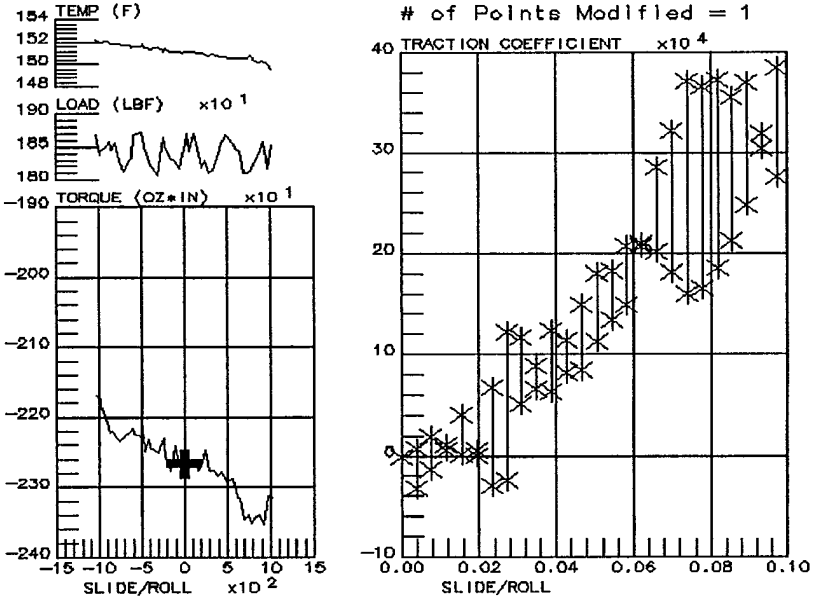
CP 90-715 ~300 Hatcol 3110 #114
150F 62LBF 2603RPM 3 FILE: cp150m



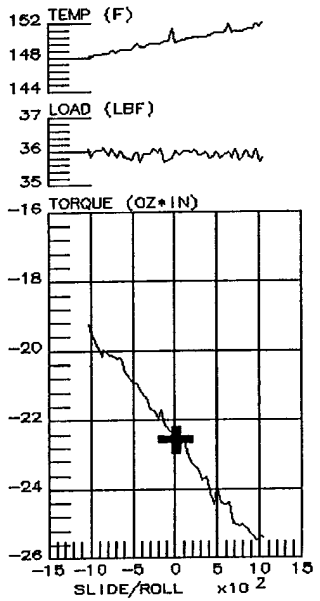
CP 90-715 ~300 Hatcol 3110 #115
150F 99LBF 2603RPM 4 FILE: cp150m



CP 90-715 ~300 Hatcol 3110 #116
150F 18LBF 5165RPM 5 FILE: cp150m



CP 90-715 ~300 Hatcol 3110 #117
150F 36LBF 5165RPM 6 FILE: cp150m



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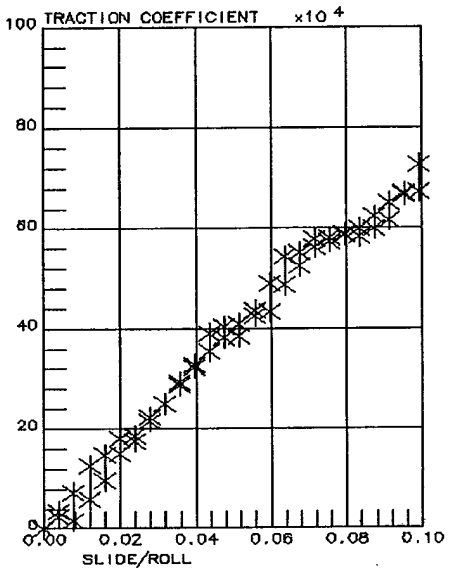
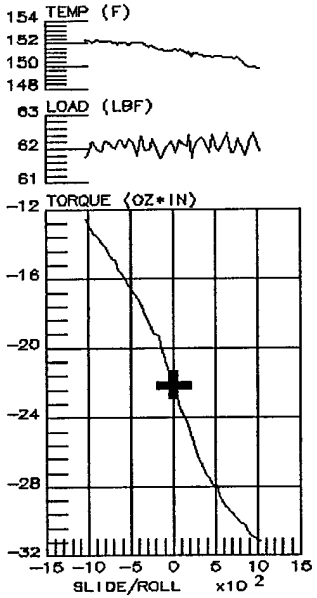


CP 90-715 ~300 Hatcol 3110 #118
150F 62LBF 5165RPM 7 FILE: cp150m



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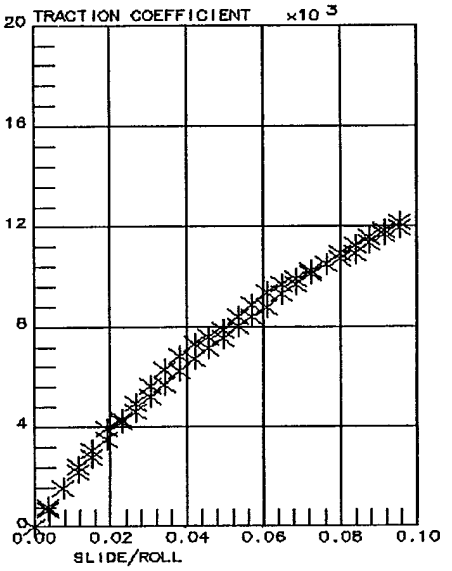
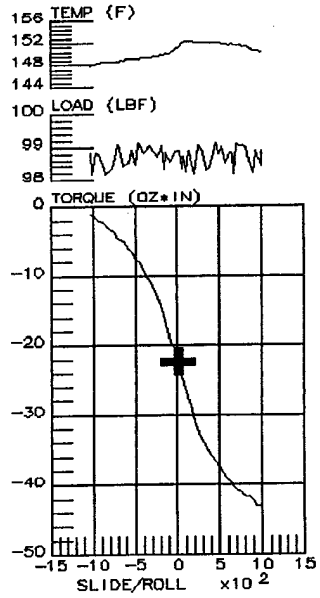


CP 90-715 ~300 Hatcol 3110 #119
150F 99LBF 5165RPM 8 FILE: cp150m



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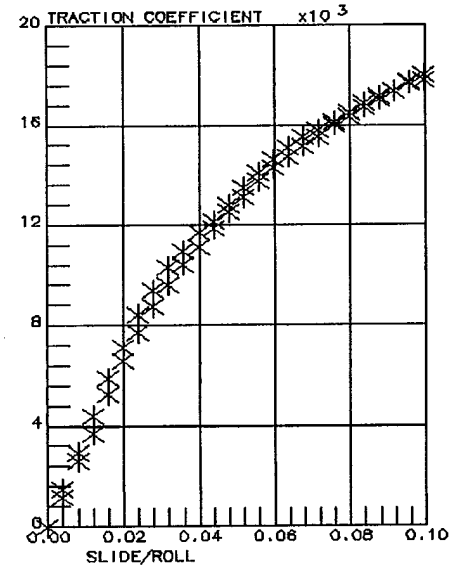
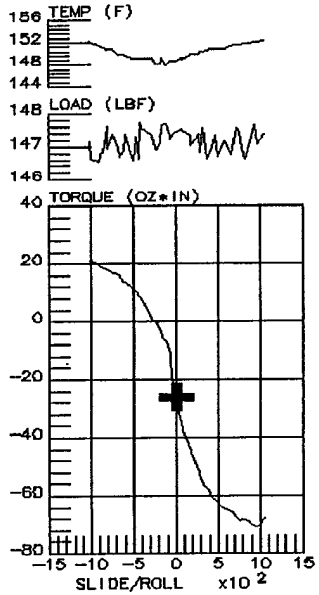


CP 90-715 ~300 Hatcol 3110 #120
150F 147LBF 2603RPM 1 FILE: cp150mx



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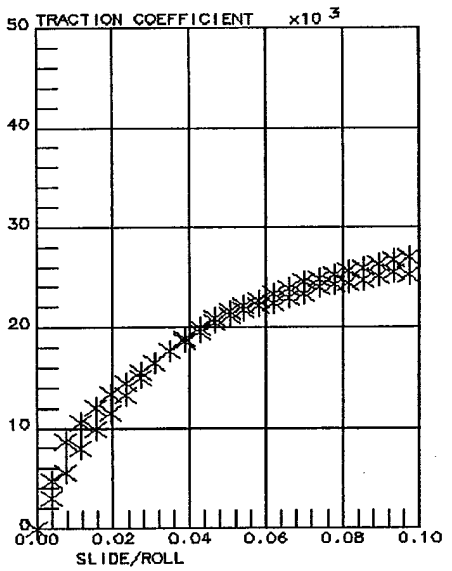
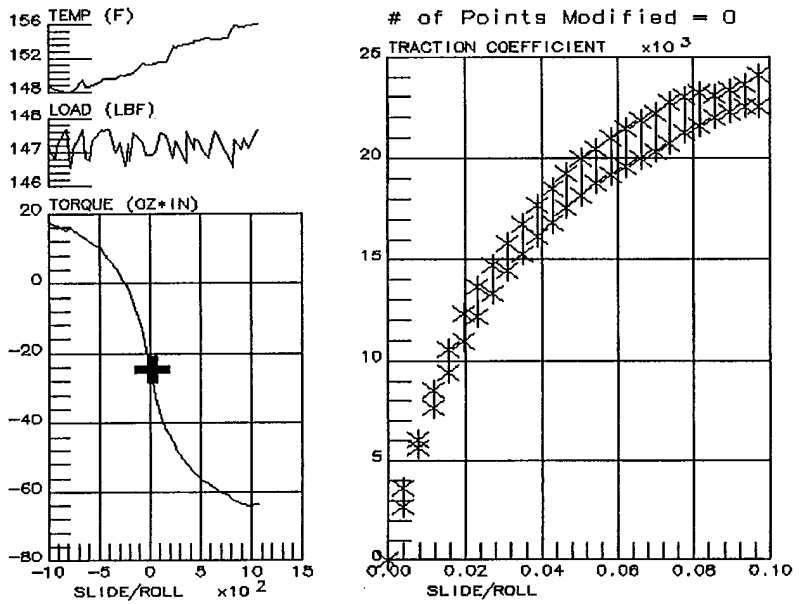
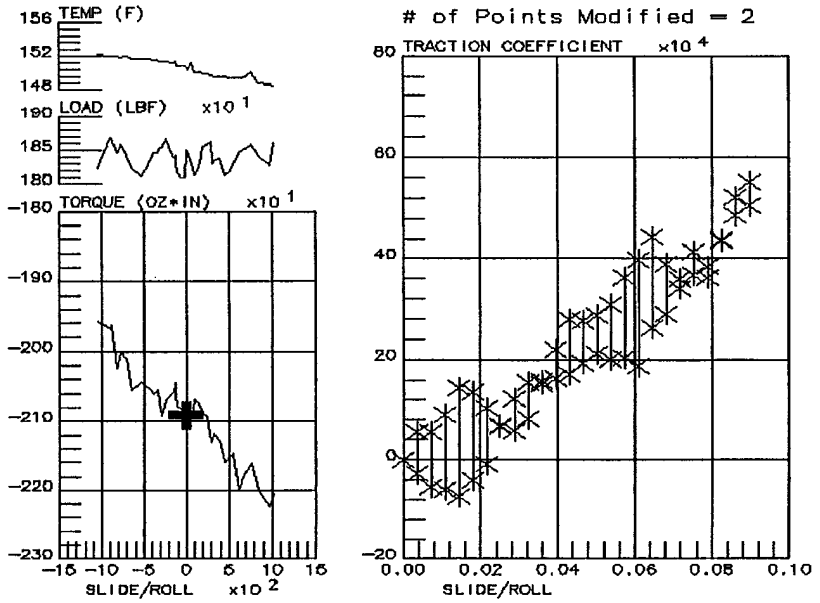


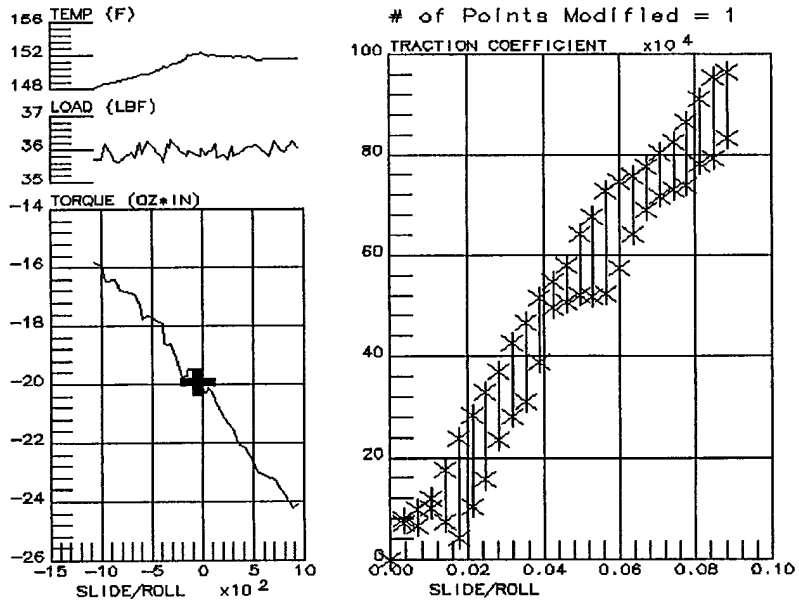
CP 90-715 ~300 Hatcol 3110 #121
150F 147LBF 5165RPM 2 FILE: cp150mx



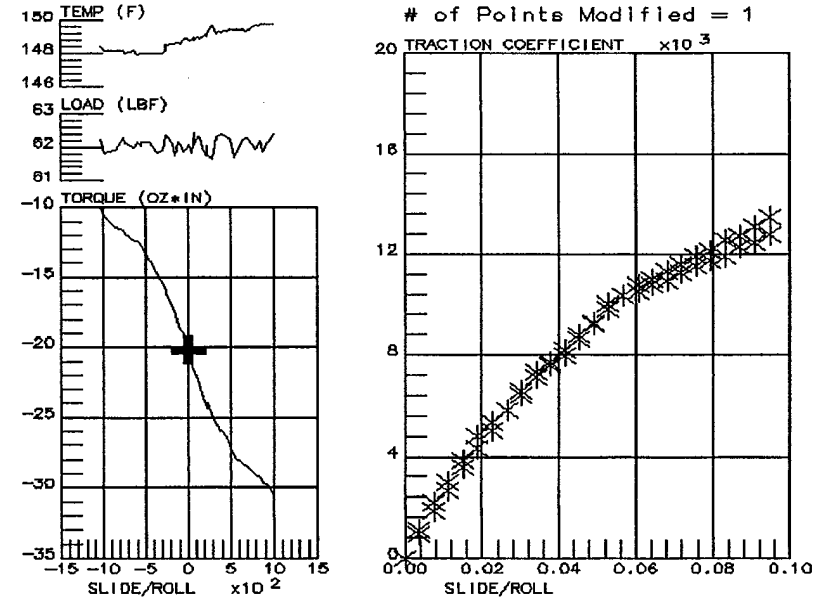
CP 90-715 ~300 Hatcol 3110 #122
150F 18LBF 7770RPM 1 FILE: cp150h



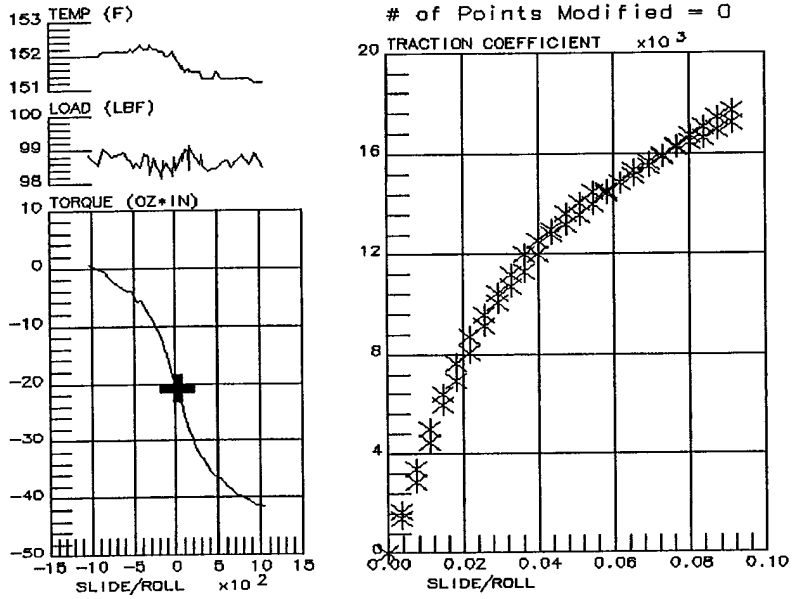
CP 90-715 ~300 Hatcol 3110 #123
150F 36LBF 7770RPM 2 FILE: cp150h



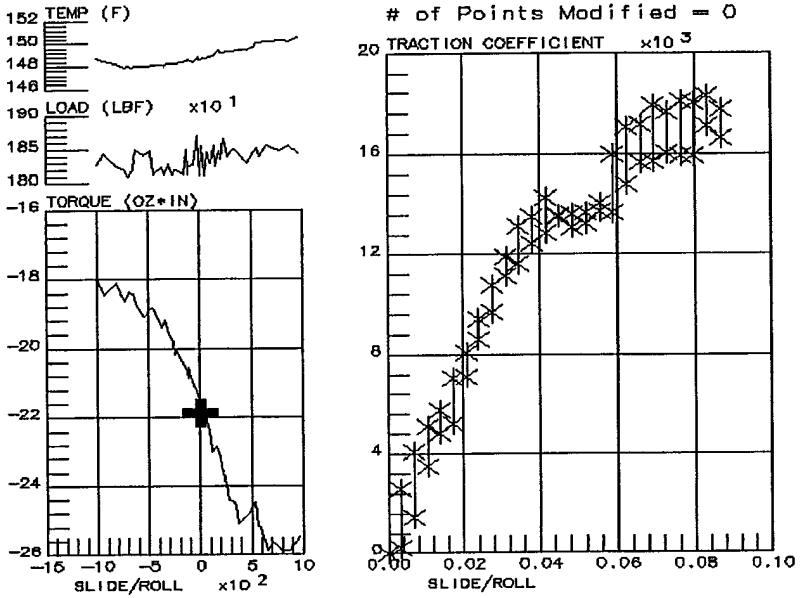
CP 90-715 ~300 Hatcol 3110 #124
150F 62LBF 7770RPM 3 FILE: cp150h



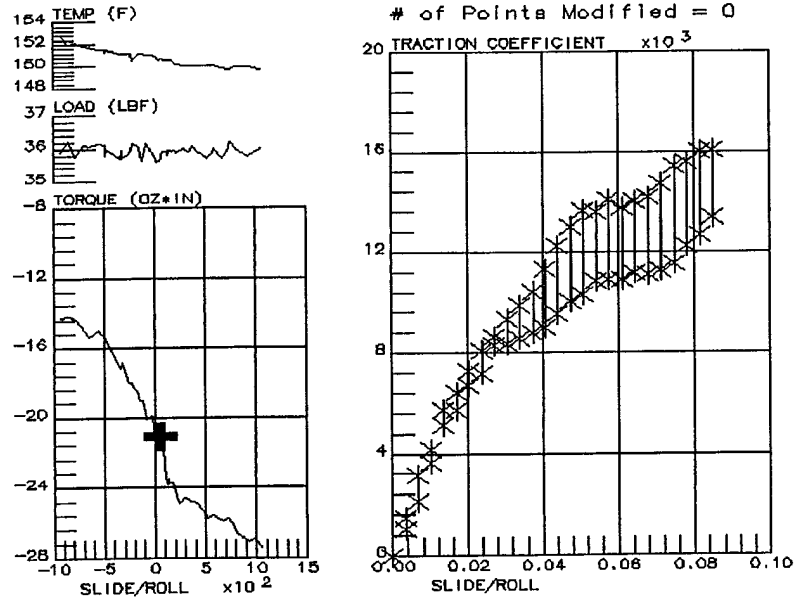
CP 90-715 ~300 Hatcol 3110 #125
150F 99LBF 7770RPM 4 FILE: cp150h



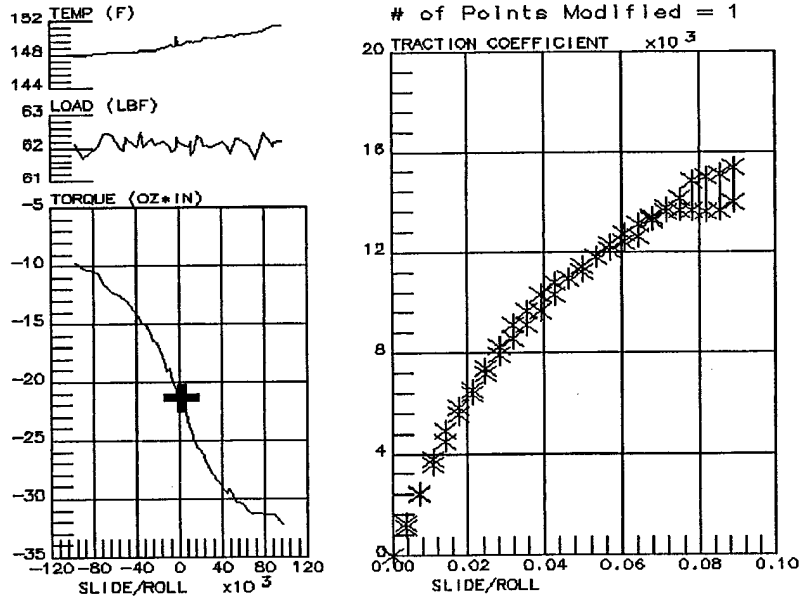
CP 90-715 ~300 Hatcol 3110 #126
150F 18LBF 10370RPM 5 FILE: cp150h



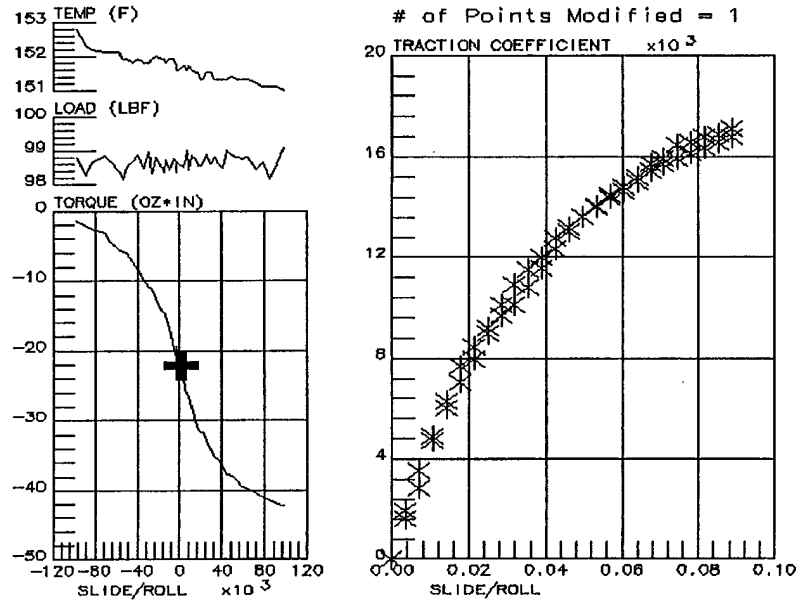
CP 90-715 ~300 Hatcol 3110 #127
150F 36LBF 10370RPM 6 FILE: cp150h



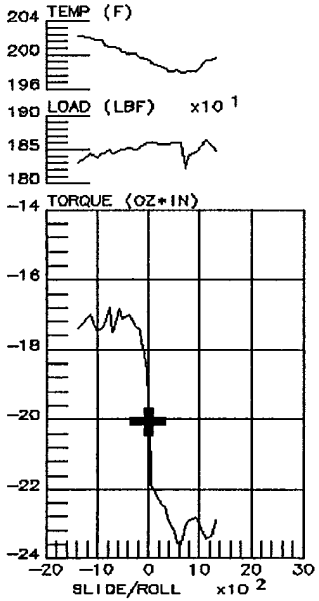
CP 90-715 ~300 Hatcol 3110 #128
150F 62LBF 10370RPM 7 FILE: cp150h

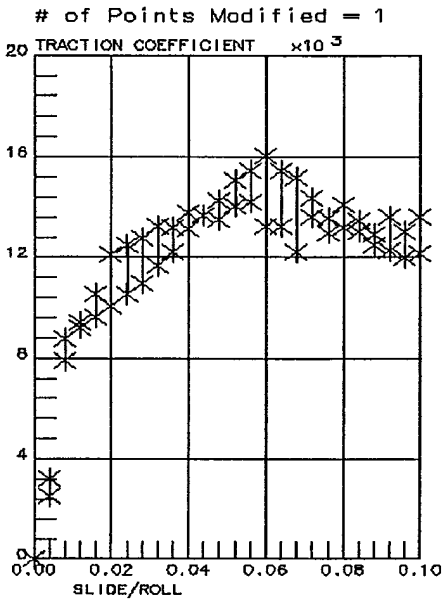


CP 90-715 ~300 Hatcol 3110 #129
150F 99LBF 10370RPM 8 FILE: cp150h

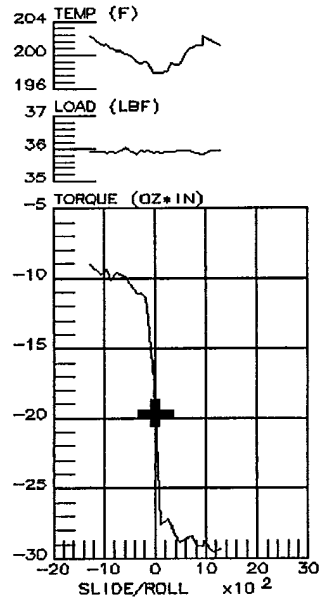


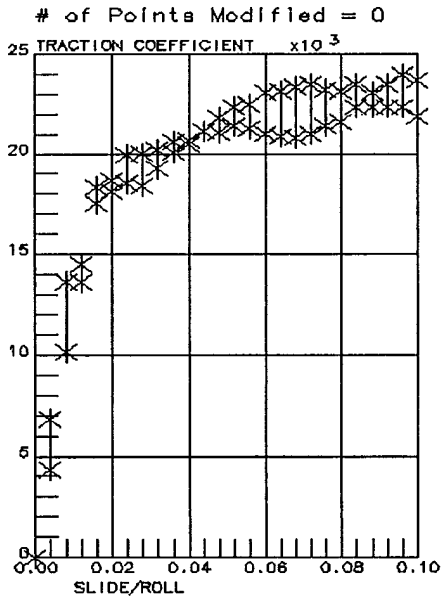
CP 90-715 ~300 Hatcol 3110 #130
200F 18LBF 310RPM 1 FILE: cp2001



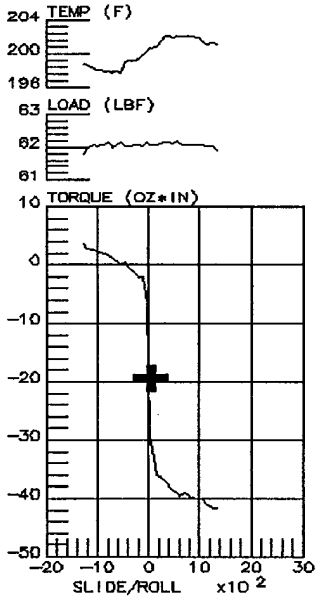


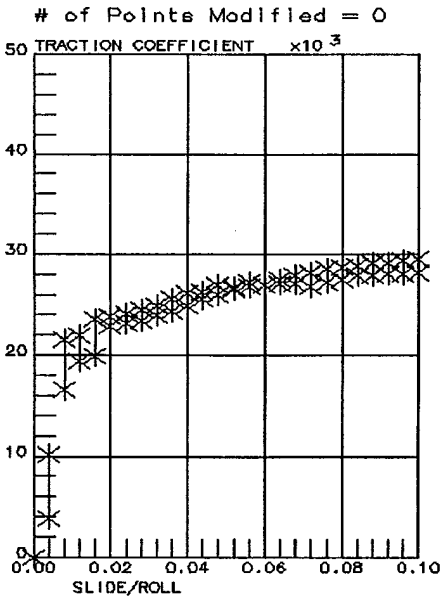
CP 90-715 ~300 Hatcol 3110 #131
200F 36LBF 310RPM 2 FILE: cp2001



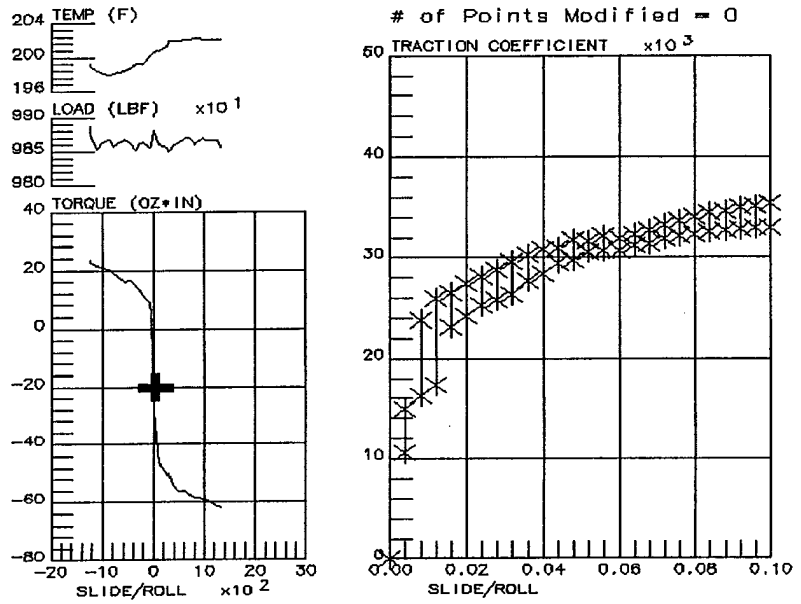


CP 90-715 ~300 Hatcol 3110 #132
200F 62LBF 310RPM 3 FILE: cp2001

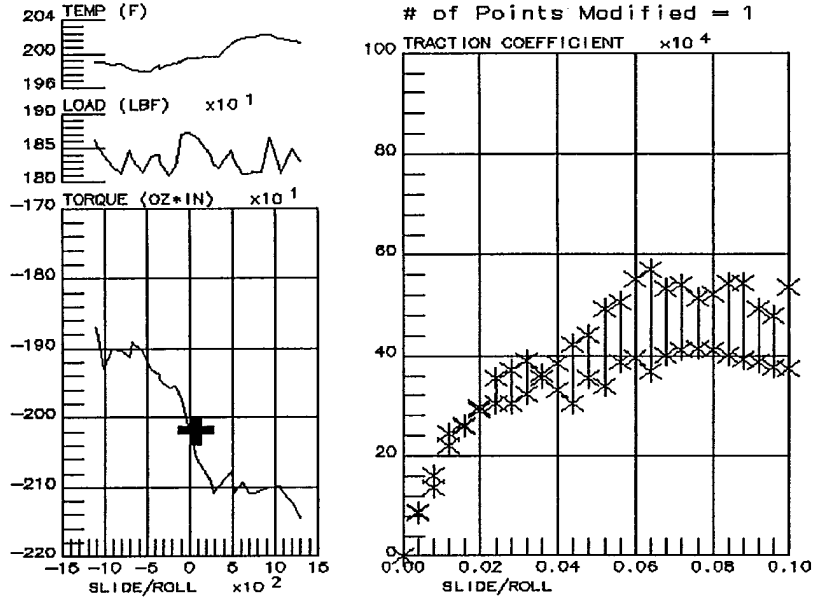




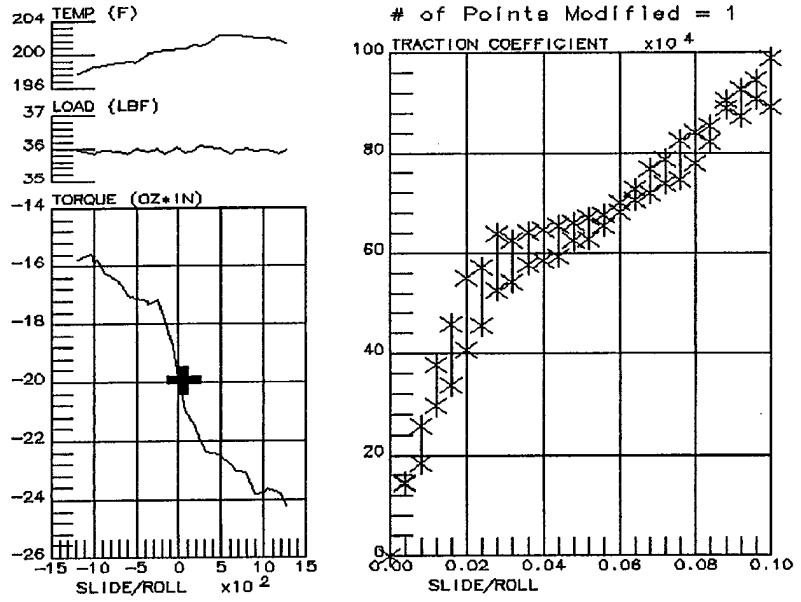
CP 90-715 ~300 Hatcol 3110 #133
200F 99LBF 310RPM 4 FILE: cp2001



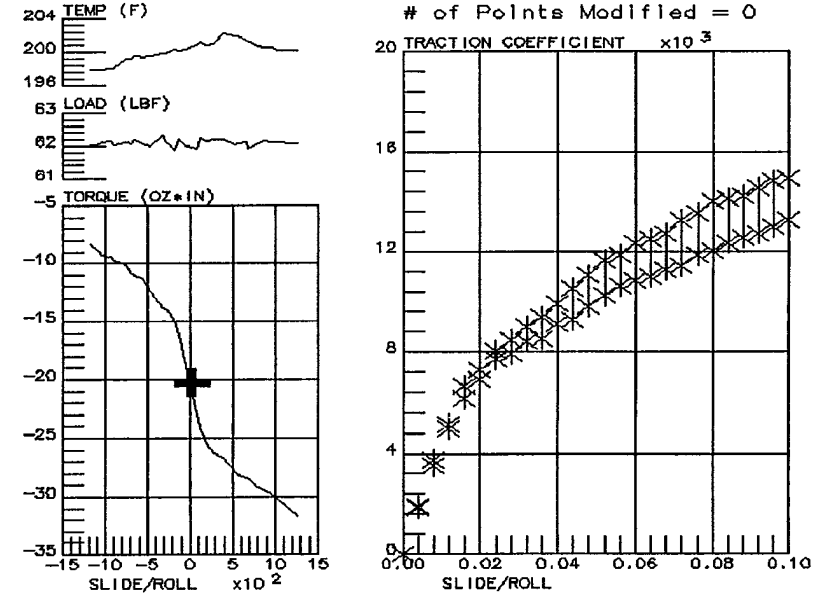
CP 90-715 ~300 Hatcol 3110 #134
200F 18LBF 660RPM 5 FILE: cp2001



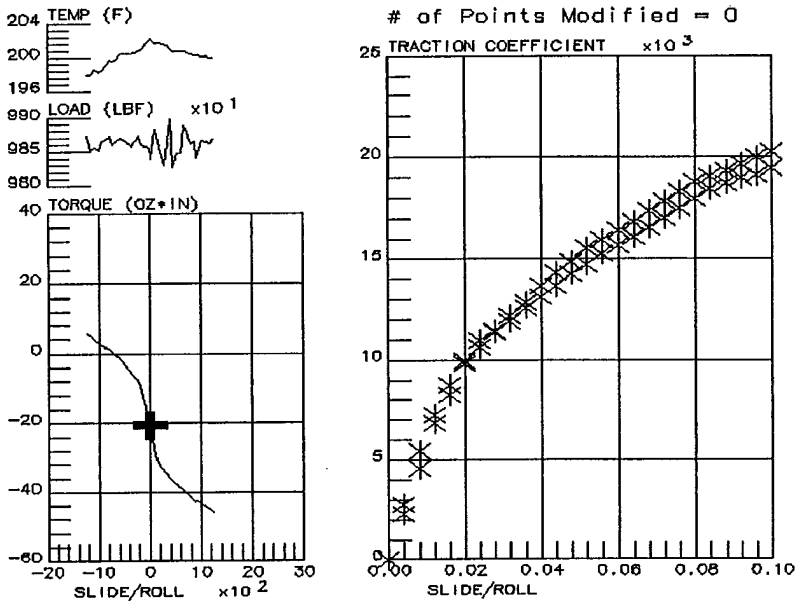
CP 90-715 ~300 Hatcol 3110 #135
200F 36LBF 660RPM 6 FILE: cp2001



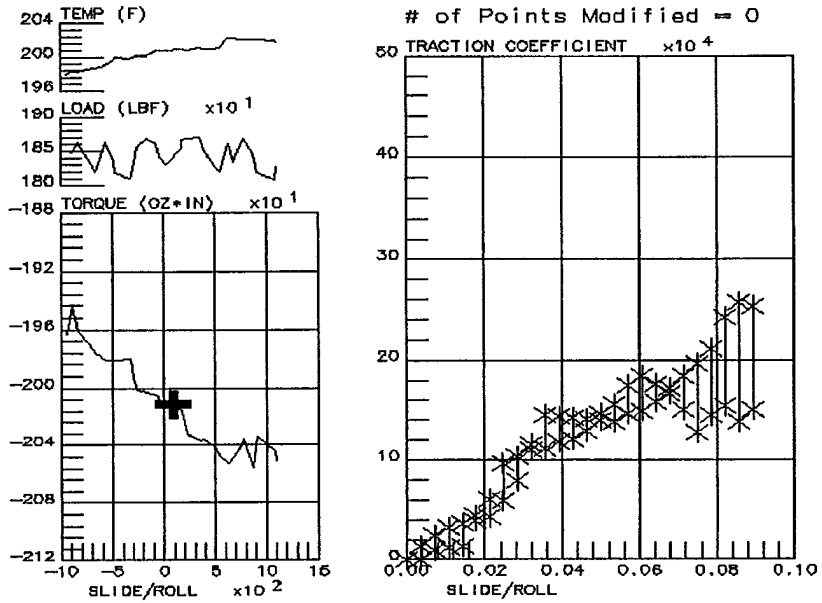
CP 90-715 ~300 Hatcol 3110 #136
200F 62LBF 660RPM 7 FILE: cp2001



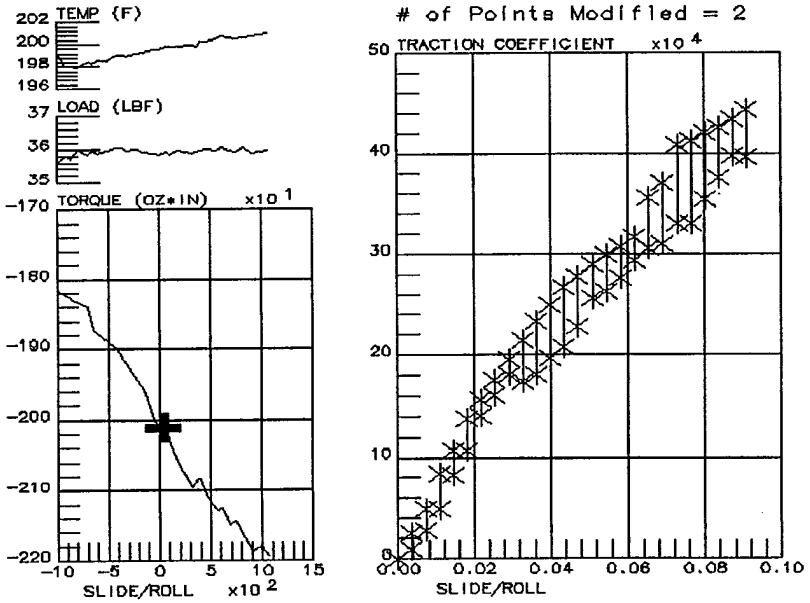
CP 90-715 ~300 Hatcol 3110 #137
200F 99LBF 660RPM 8 FILE: cp2001



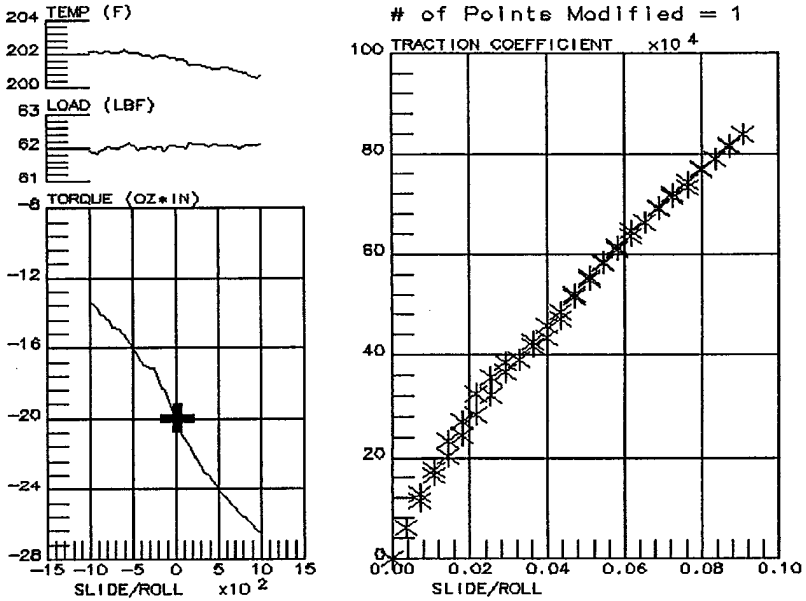
CP 90-715 ~300 Hatcol 3110 #138
200F 18LBF 1260RPM 9 FILE: cp2001



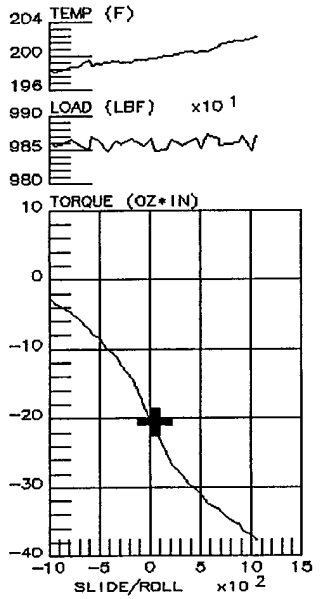
CP 90-715 ~300 Hatcol 3110 #139
200F 36LBF 1260RPM 10 FILE: cp2001



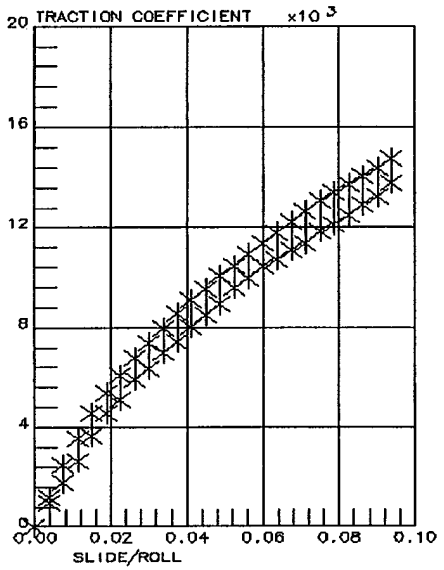
CP 90-715 ~300 Hatcol 3110 #140
200F 62LBF 1260RPM 11 FILE: cp2001



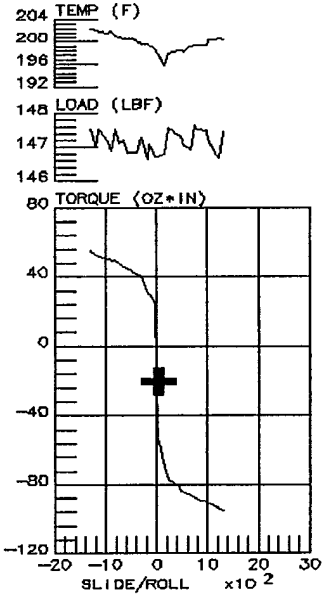
CP 90-715 ~300 Hatcol 3110 #141
200F 99LBF 1280RPM 12 FILE: cp2001



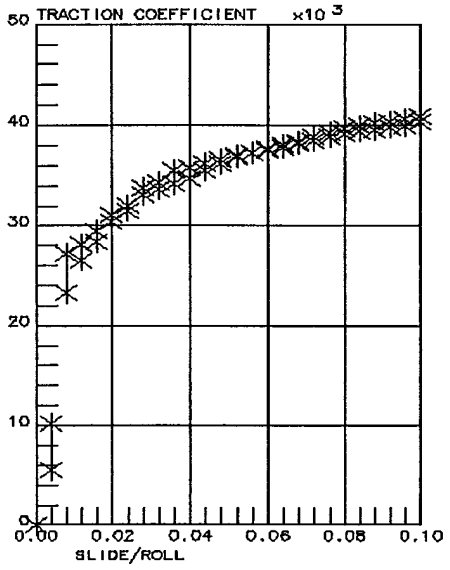
# of Points Modified = 3



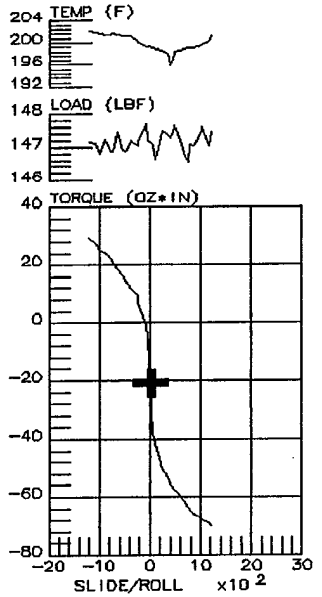
CP 90-715 ~300 Hatcol 3110 #142
200F 147LBF 310RPM 1 FILE: cp2001x



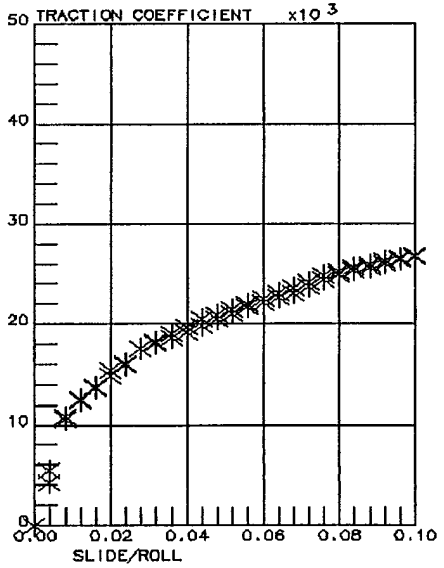
# of Points Modified = 0



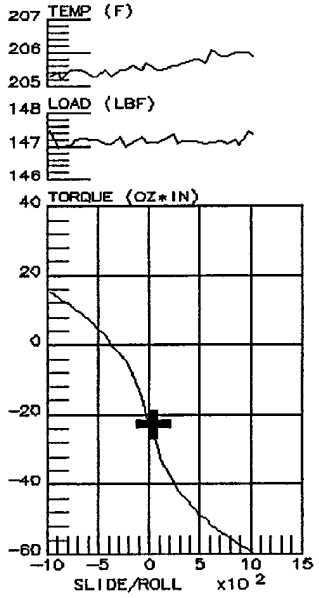
CP 90-715 ~300 Hatcol 3110 #143
200F 147LBF 660RPM 2 FILE: cp2001x



# of Points Modified = 1



CP 90-715 ~300 Hatcol 3110 #144
200F 147LBF 1280RPM 3 FILE: cp2001x



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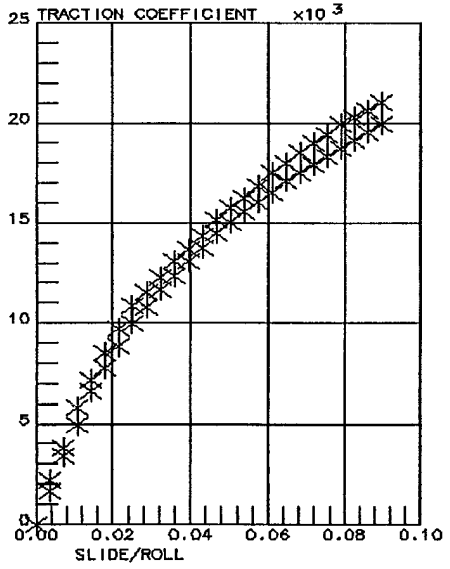
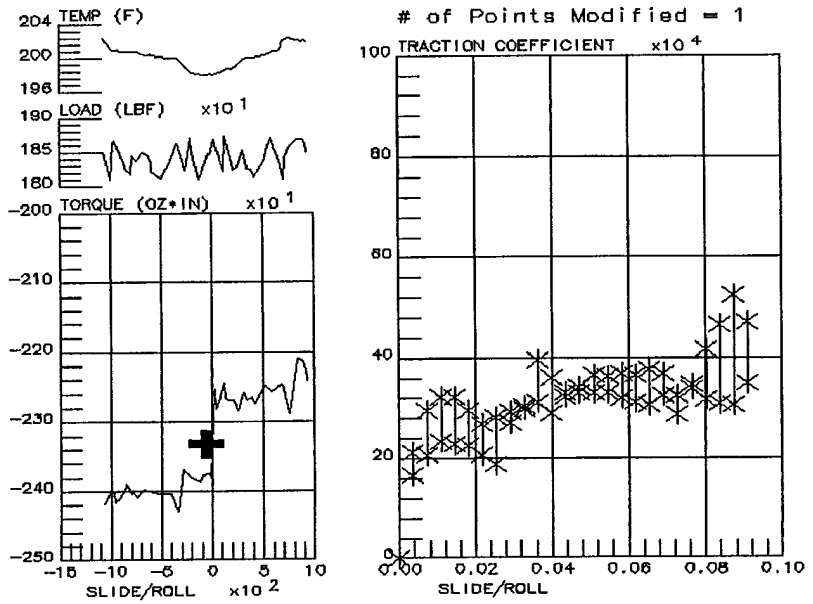
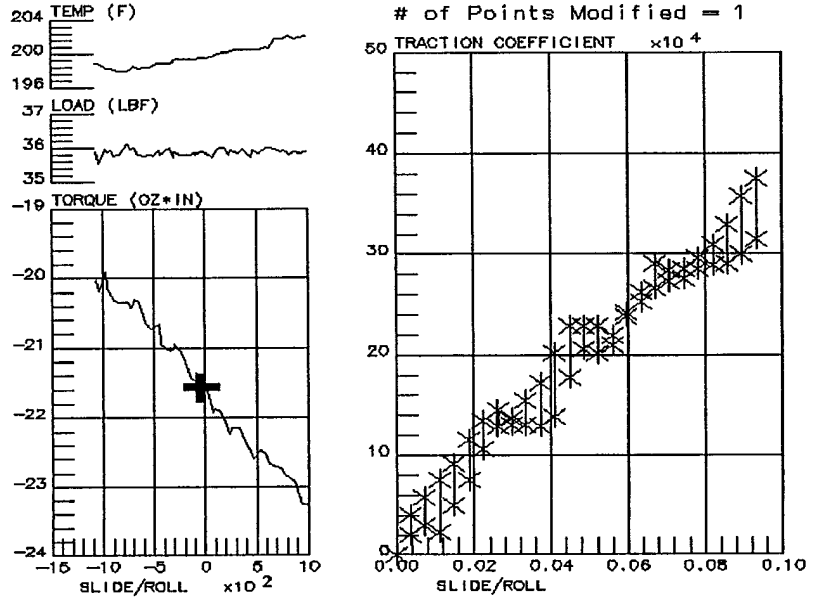


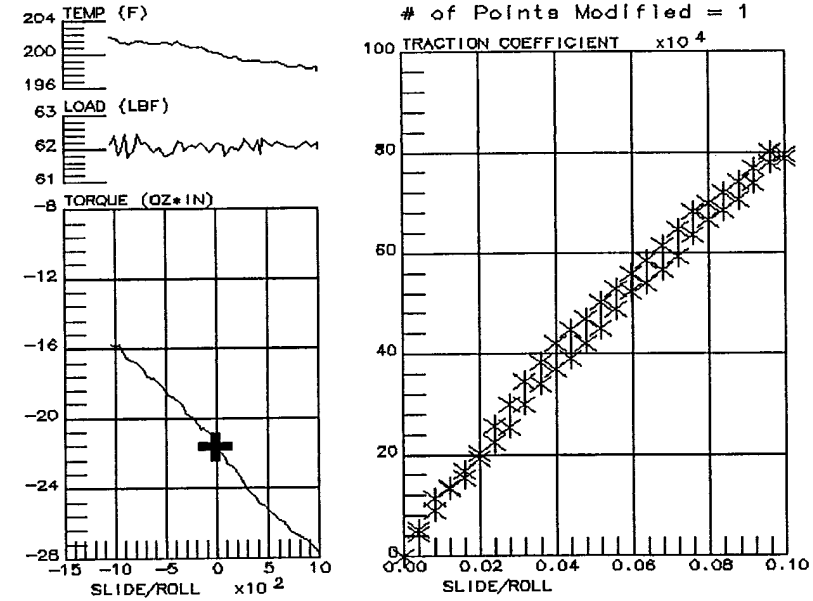
CP 90-715 ~300 Hatcol 3110 #145
200F 18LBF 2603RPM 1 FILE: cp200m



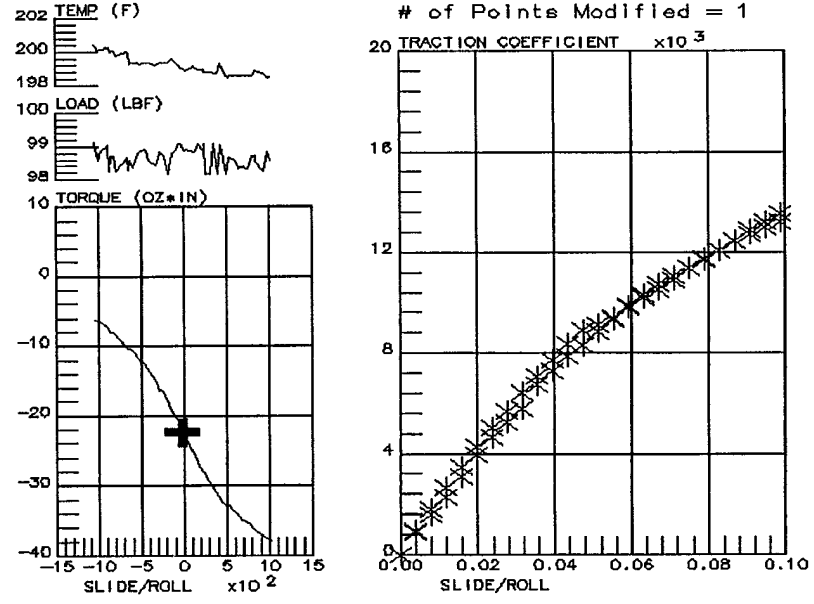
CP 90-715 ~300 Hatcol 3110 #146
200F 36LBF 2603RPM 2 FILE: cp200m



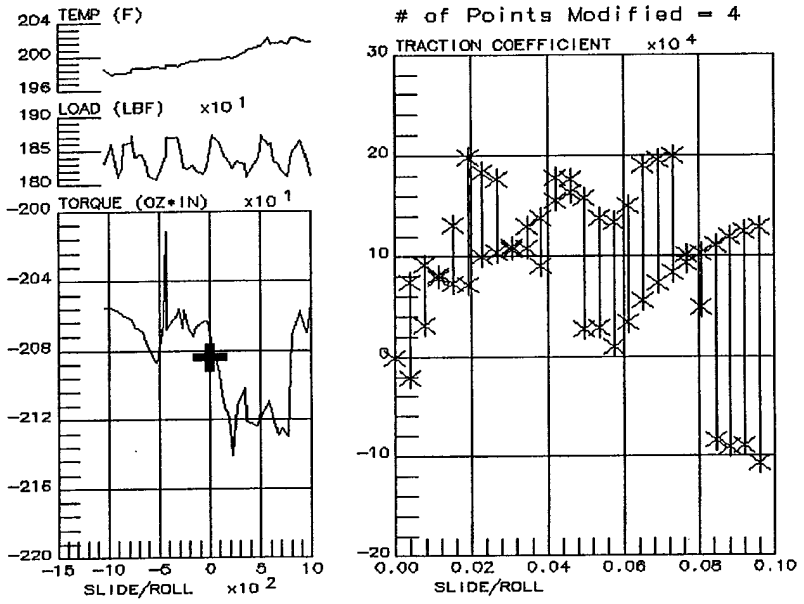
CP 90-715 ~300 Hatcol 3110 #147
200F 62LBF 2603RPM 3 FILE: cp200m



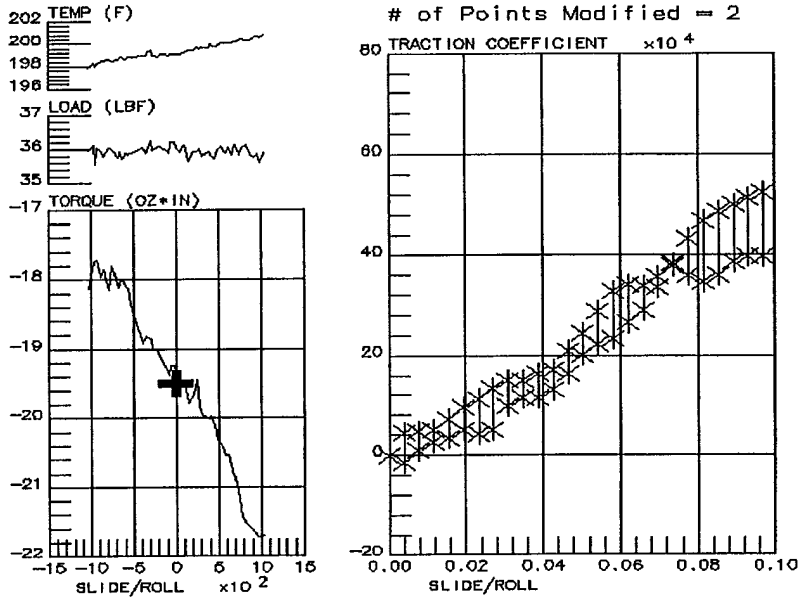
CP 90-715 ~300 Hatcol 3110 #148
200F 99LBF 2603RPM 4 FILE: cp200m



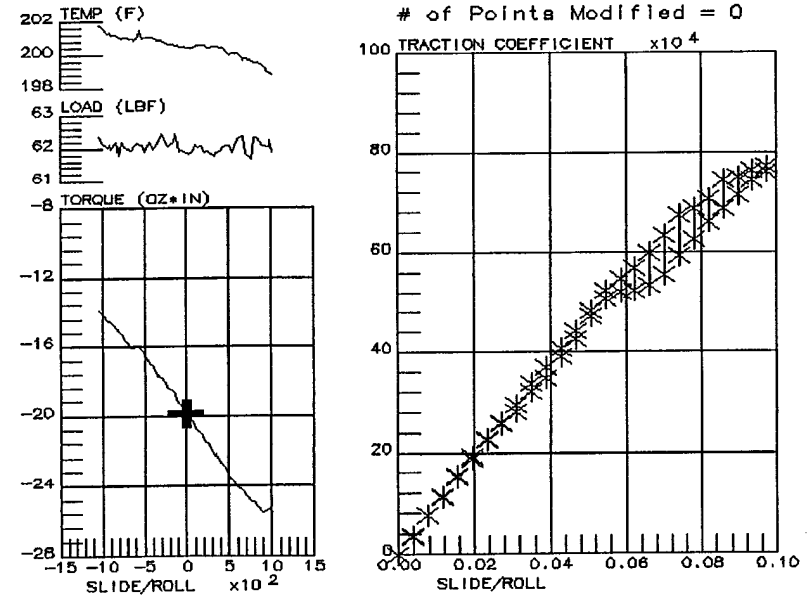
CP 90-715 ~300 Hatcol 3110 #149
200F 18LBF 5165RPM 5 FILE: cp200m



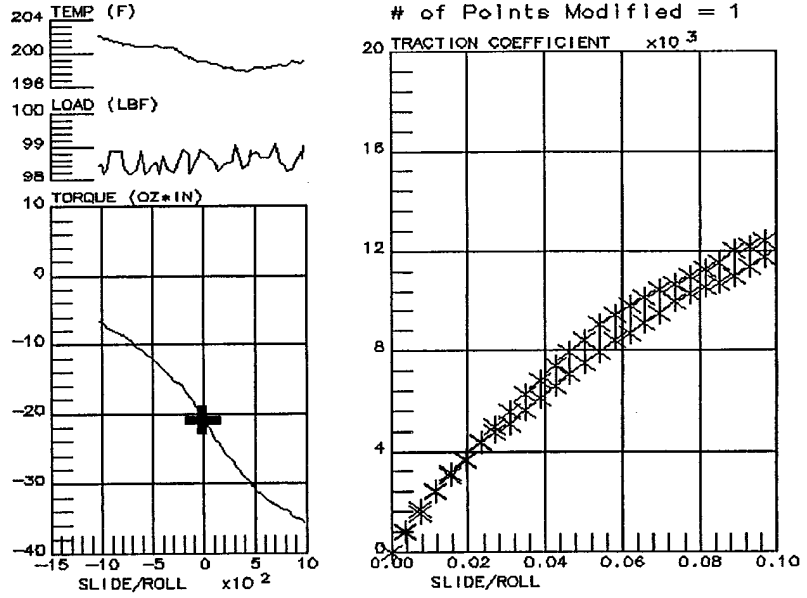
CP 90-715 ~300 Hatcol 3110 #150
200F 36LBF 5165RPM 6 FILE: cp200m



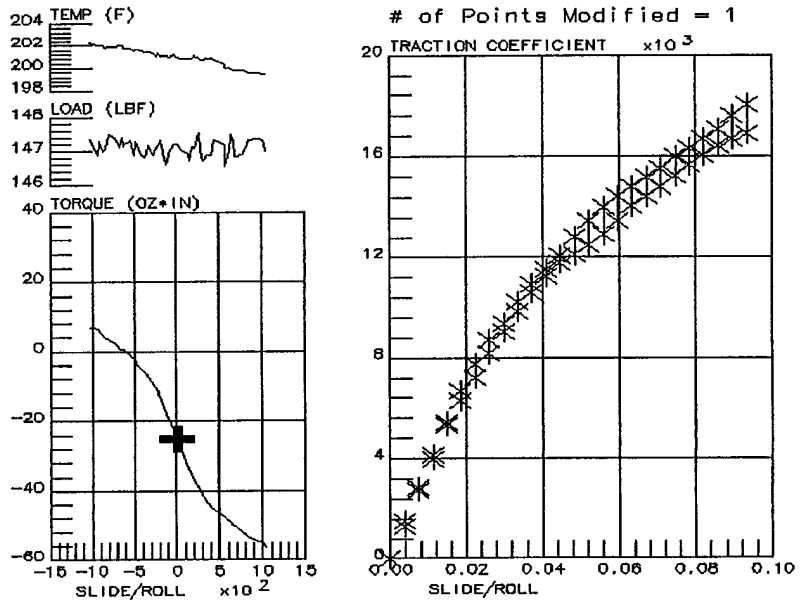
CP 90-715 ~300 Hatcol 3110 #151
200F 62LBF 5165RPM 7 FILE: cp200m



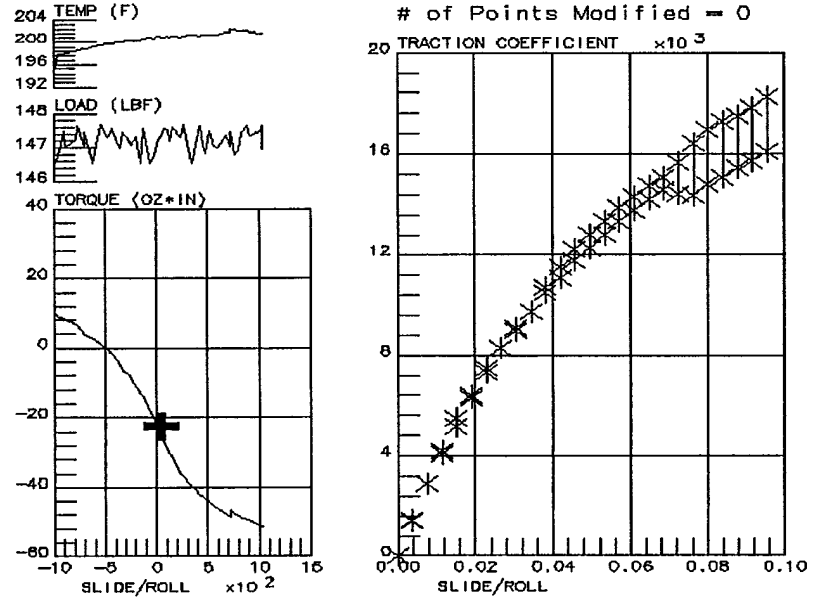
CP 90-715 ~300 Hatcol 3110 #152
200F 99LBF 5165RPM 8 FILE: cp200m



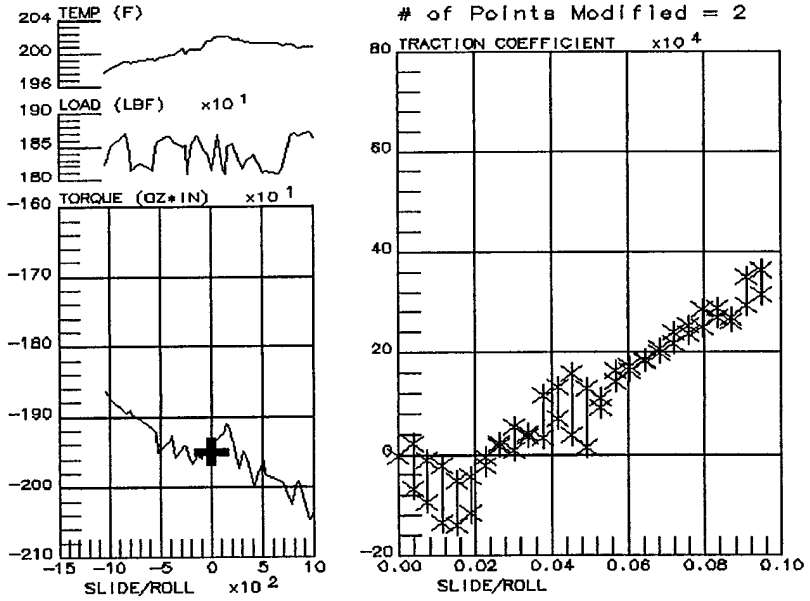
CP 90-715 ~300 Hatcol 3110 #153
200F 147LBF 2603RPM 1 FILE: cp200mx



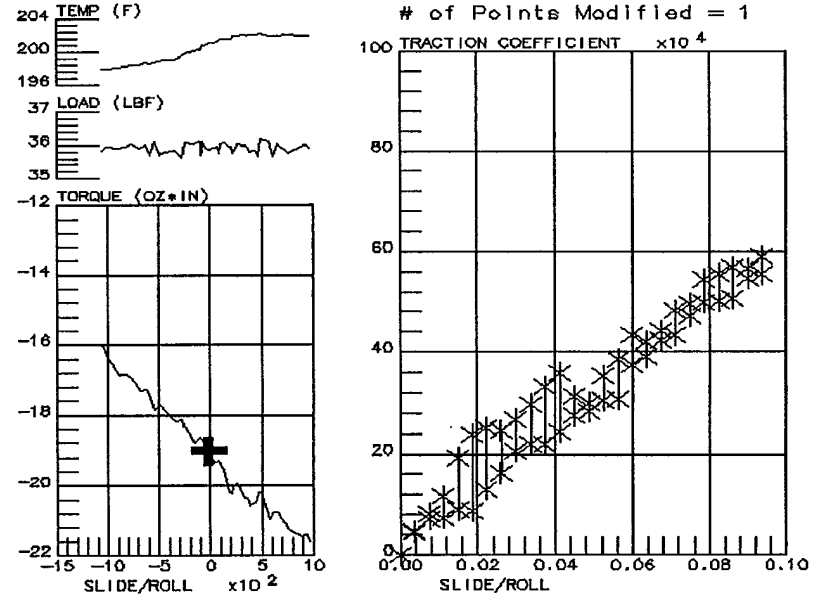
CP 90-715 ~300 Hatcol 3110 #154
200F 147LBF 5165RPM 2 FILE: cp200mx



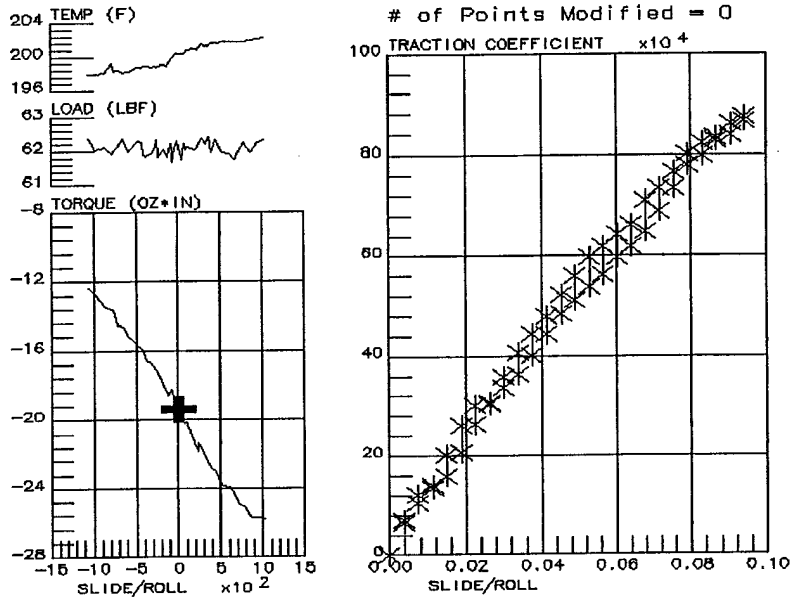
CP 90-715 ~300 Hatcol 3110 #155
200F 18LBF 7770RPM 1 FILE: cp200h



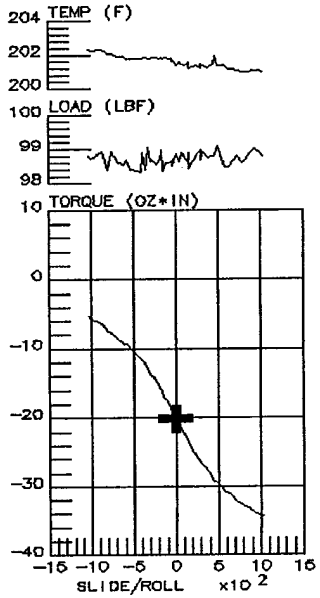
CP 90-715 ~300 Hatcol 3110 #156
200F 36LBF 7770RPM 2 FILE: cp200h

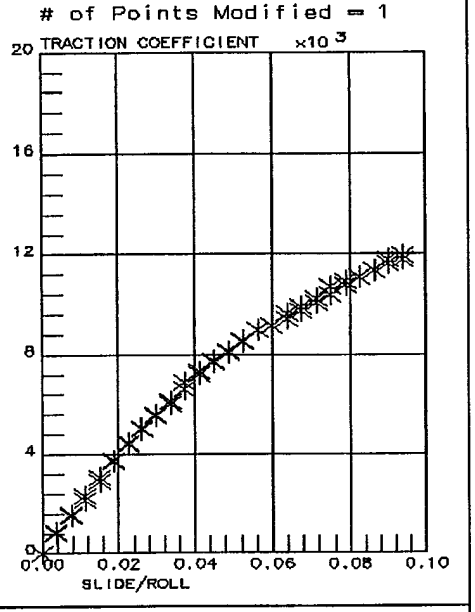


CP 90-715 ~300 Hatcol 3110 #157
200F 62LBF 7770RPM 3 FILE: cp200h

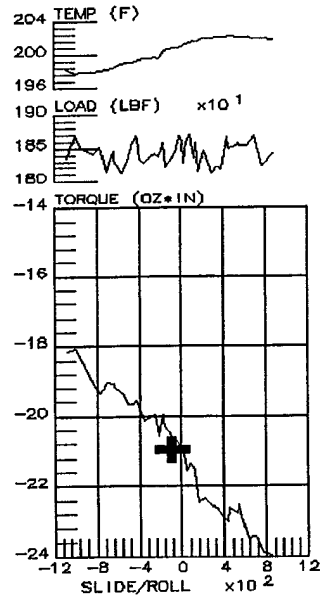


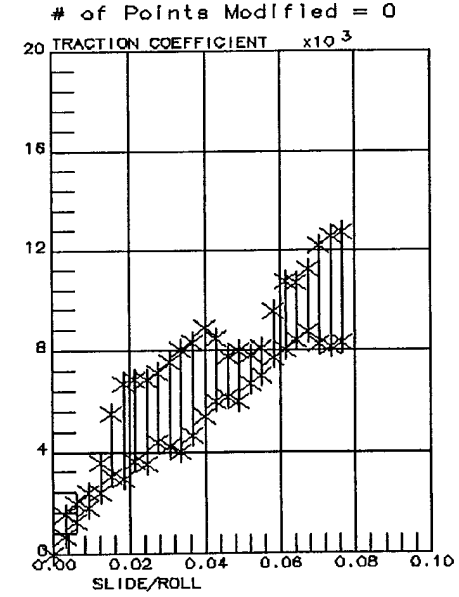
CP 90-715 ~300 Hatcol 3110 #158
200F 99LBF 7770RPM 4 FILE: cp200h



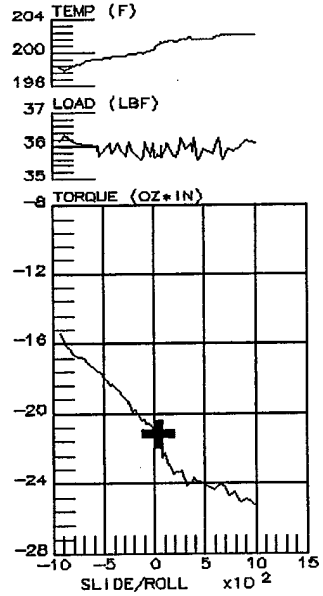


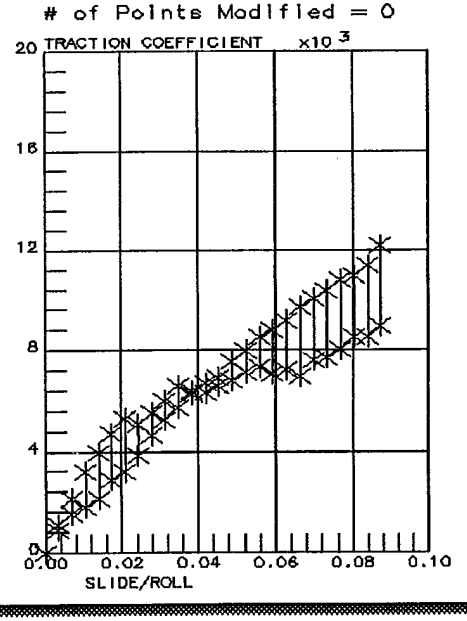
CP 90-715 ~300 Hatcol 3110 #159
200F 18LBF 10370RPM 5 FILE: cp200h



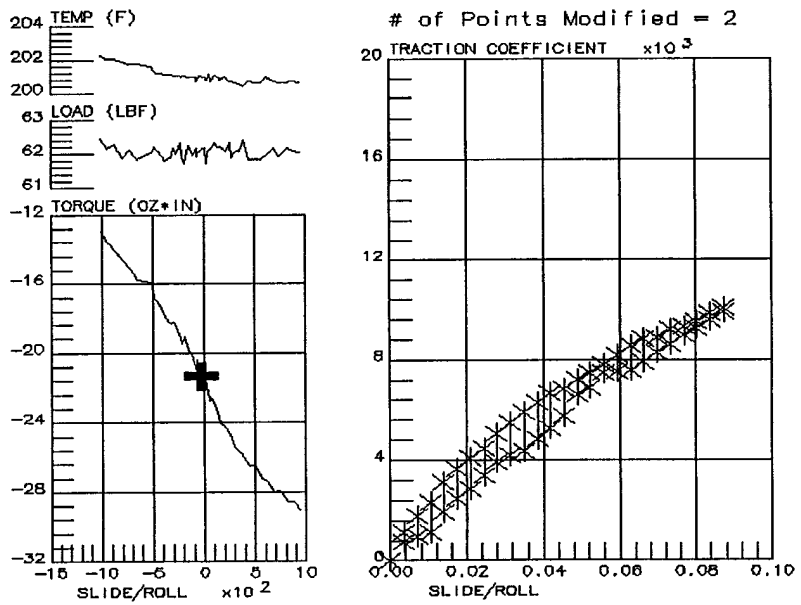


CP 90-715 ~300 Hatcol 3110 #160
200F 36LBF 10370RPM 6 FILE: cp200h

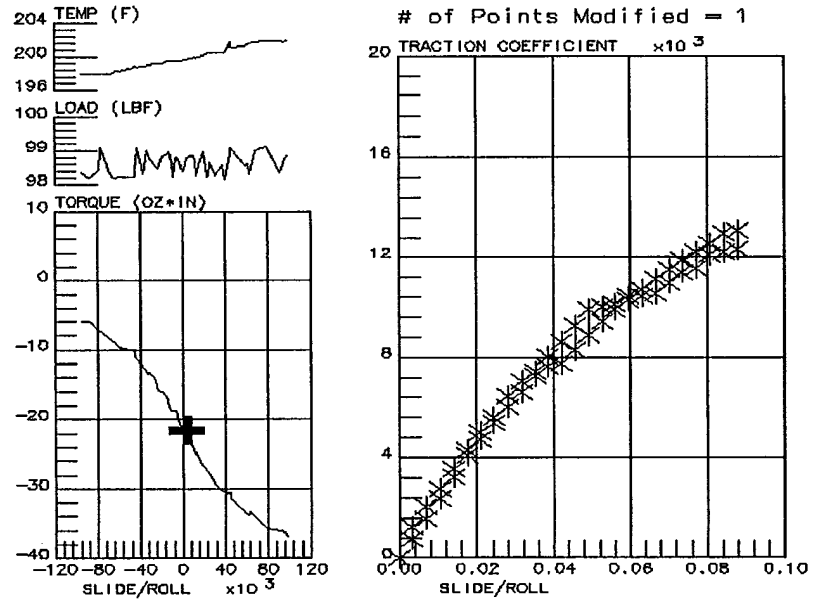




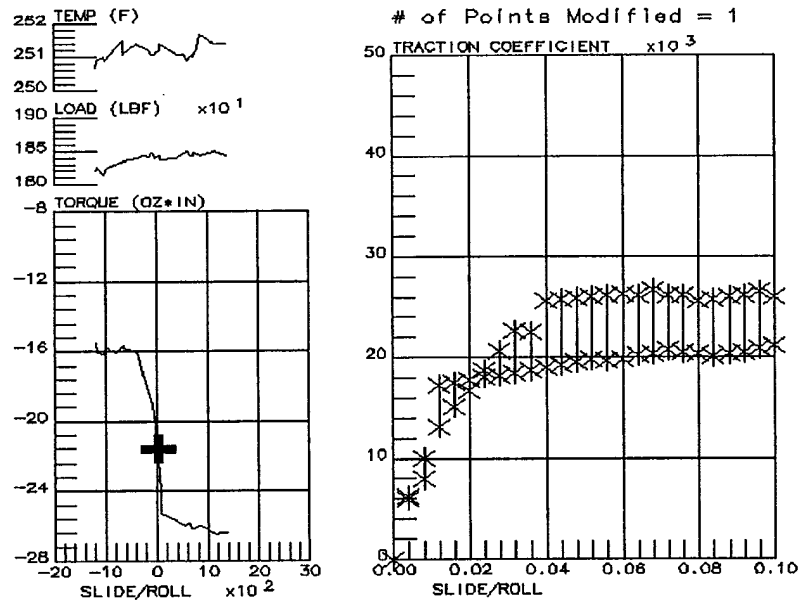
CP 90-715 ~300 Hatcol 3110 #161
200F 82LBF 10370RPM 7 FILE: cp200h



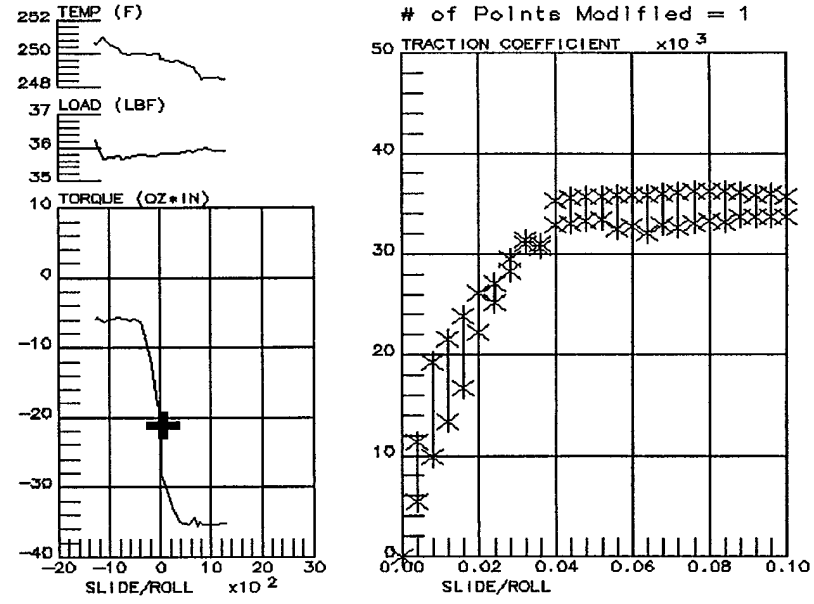
CP 90-715 ~300 Hatcol 3110 #162
200F 99LBF 10370RPM 8 FILE: cp200h



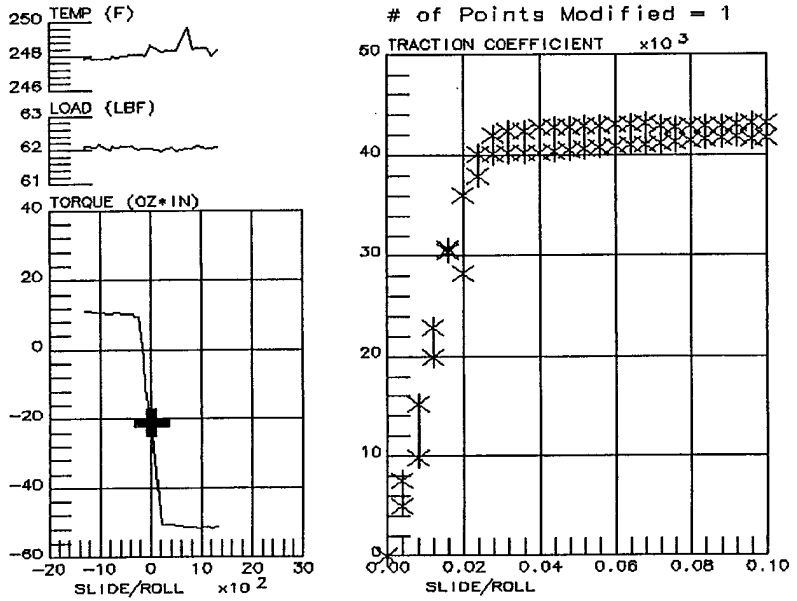
CP 90-715 ~300 Hatcol 3110 #163
250F 18LBF 310RPM 1 FILE: cp250l



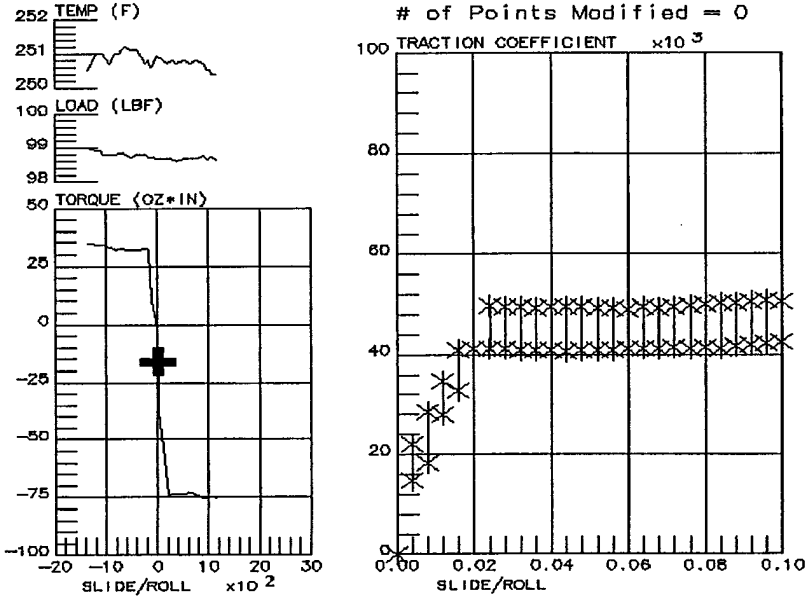
CP 90-715 ~300 Hatcol 3110 #164
250F 36LBF 310RPM 2 FILE: cp250l



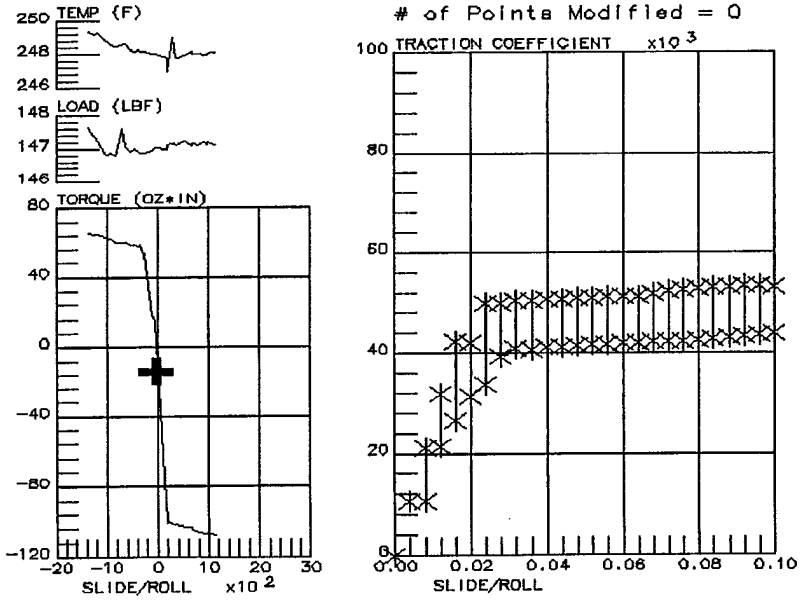
CP 90-715 ~300 Hatcol 3110 #165
250F 62LBF 310RPM 3 FILE: cp2501



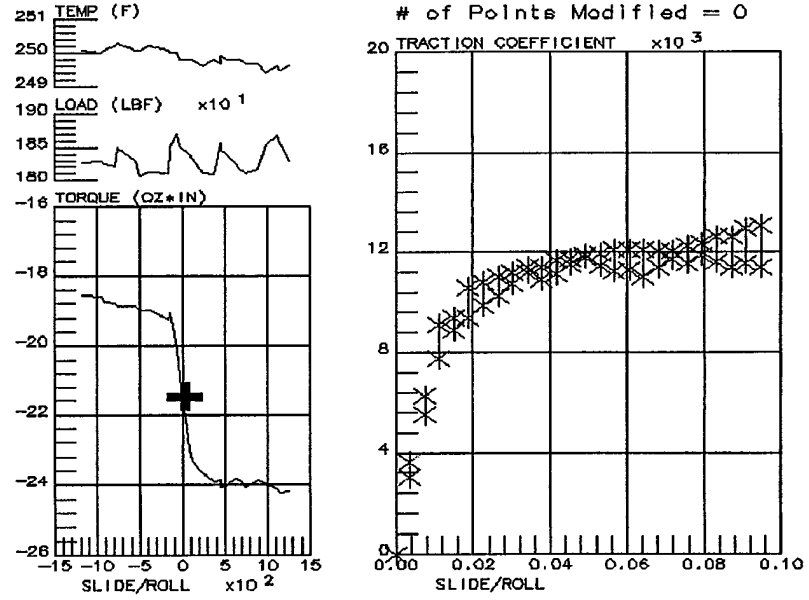
CP 90-715 ~300 Hatcol 3110 #166
250F 99LBF 310RPM 4 FILE: cp2501



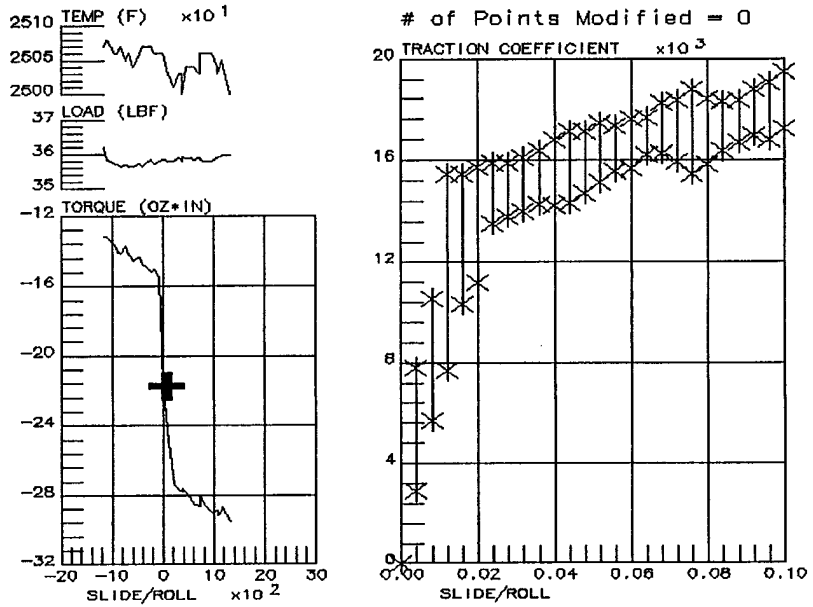
CP 90-715 ~300 Hatcol 3110 #167
250F 147LBF 310RPM 5 FILE: cp2501



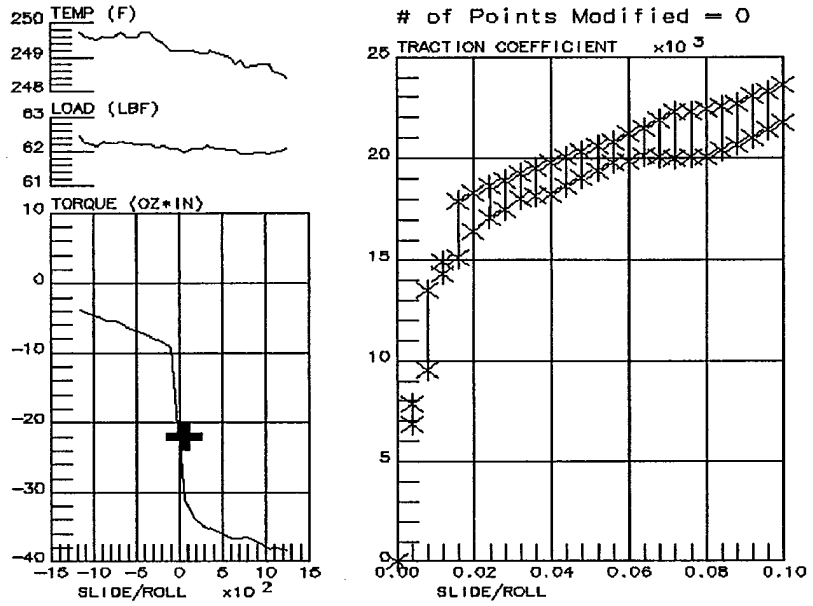
CP 90-715 ~300 Hatcol 3110 #168
250F 18LBF 660RPM 6 FILE: cp2501



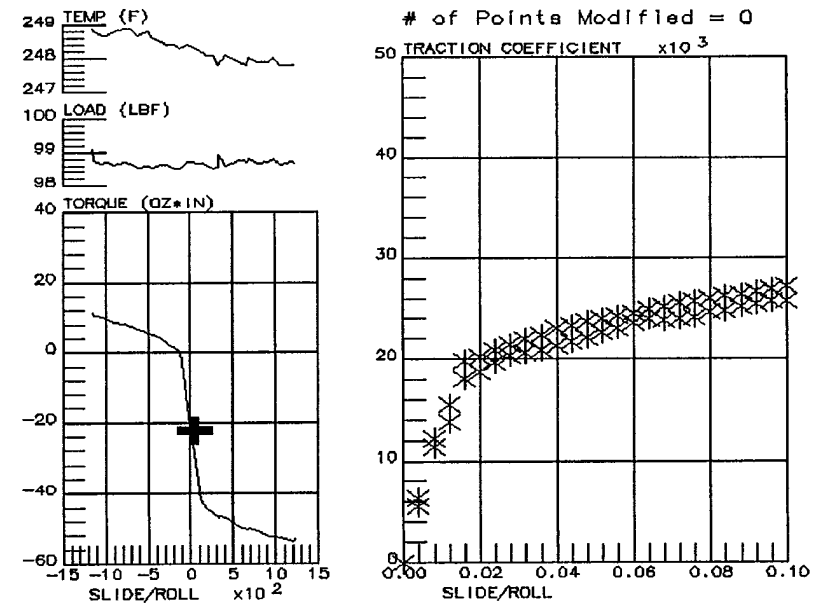
CP 90-715 ~300 Hatcol 3110 #169
250F 36LBF 660RPM 7 FILE: cp2501



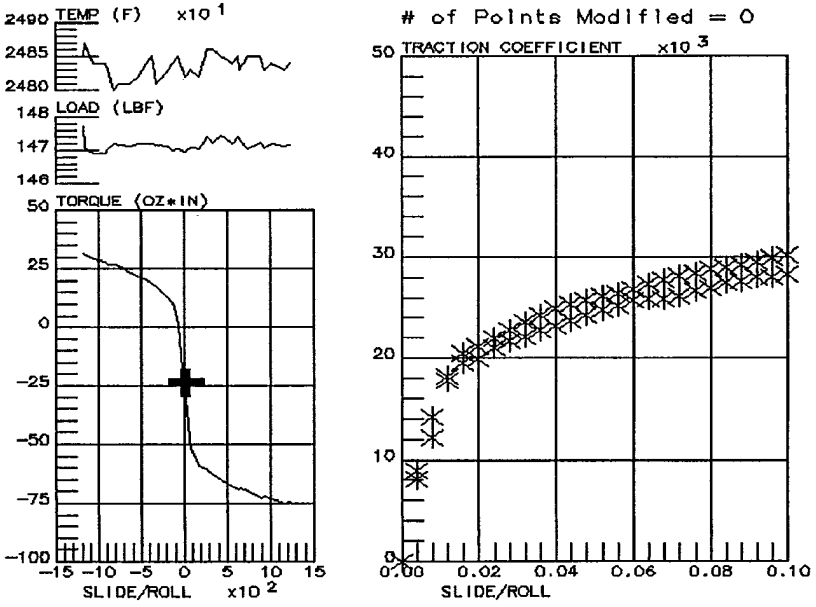
CP 90-715 ~300 Hatcol 3110 #170
250F 62LBF 660RPM 8 FILE: cp2501



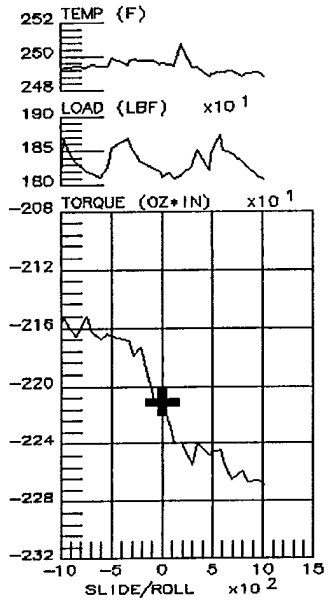
CP 90-715 ~300 Hatcol 3110 #171
250F 99LBF 660RPM 9 FILE: cp2501



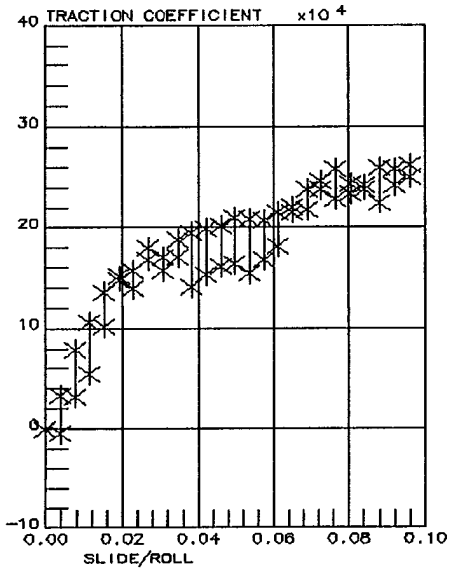
CP 90-715 ~300 Hatcol 3110 #172
250F 147LBF 660RPM 10 FILE: cp2501



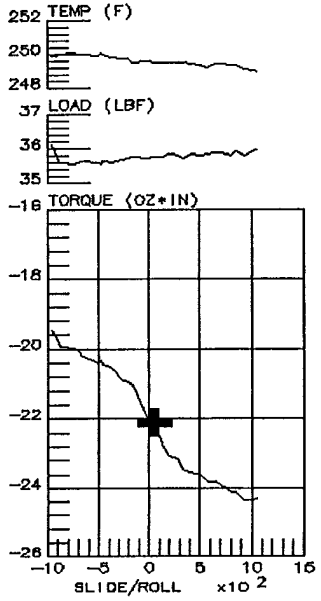
CP 90-715 ~300 Hatcol 3110 #173
250F 18LBF 1280RPM 11 FILE: cp2501



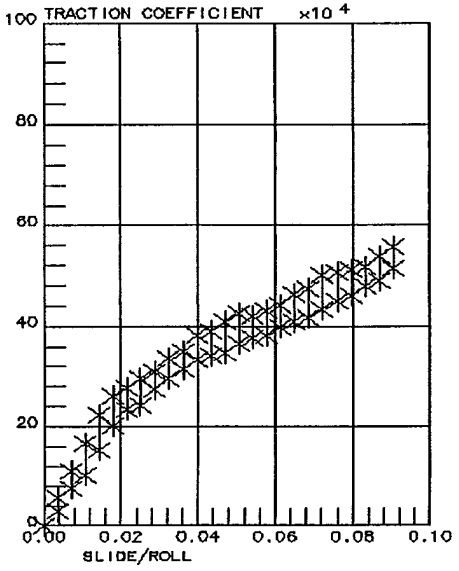
# of Points Modified = 0



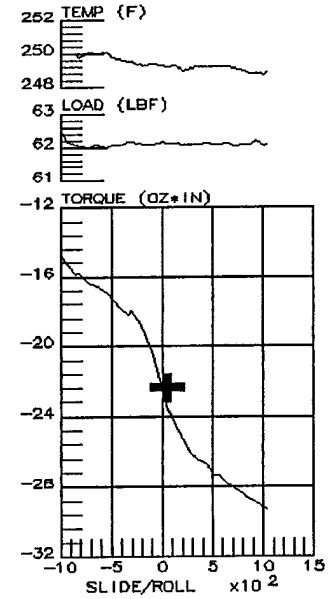
CP 90-715 ~300 Hatcol 3110 #174
250F 36LBF 1280RPM 12 FILE: cp2501



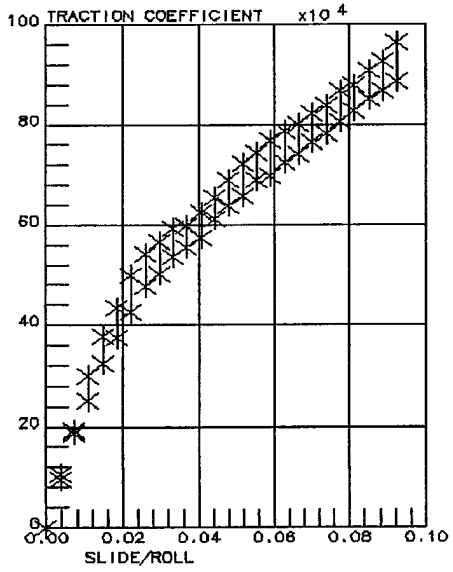
# of Points Modified = 0



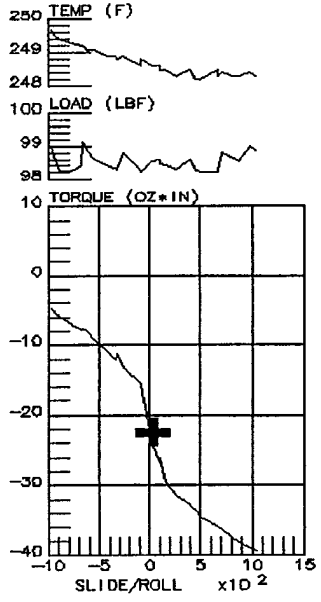
CP 90-715 ~300 Hatcol 3110 #175
250F 62LBF 1280RPM 13 FILE: cp2501



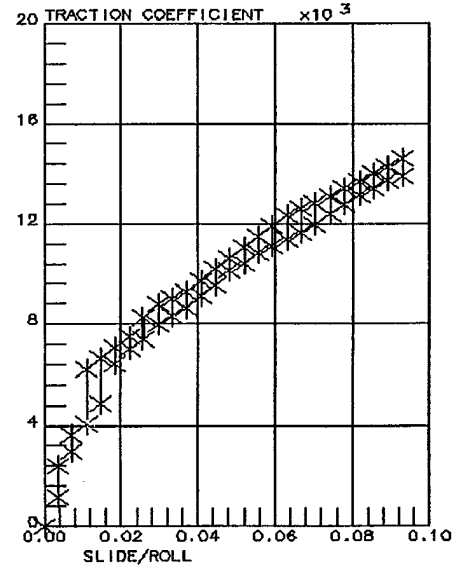
# of Points Modified = 1



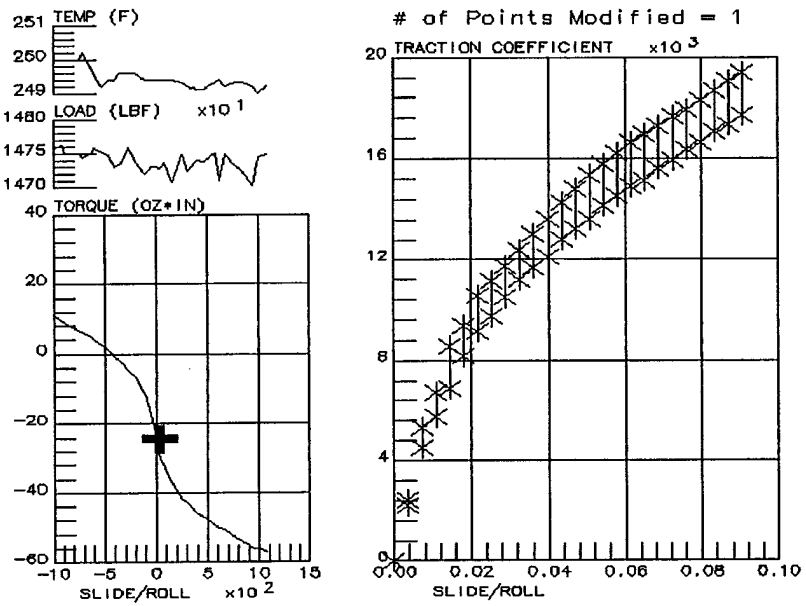
CP 90-715 ~300 Hatcol 3110 #176
250F 99LBF 1280RPM 14 FILE: cp2501



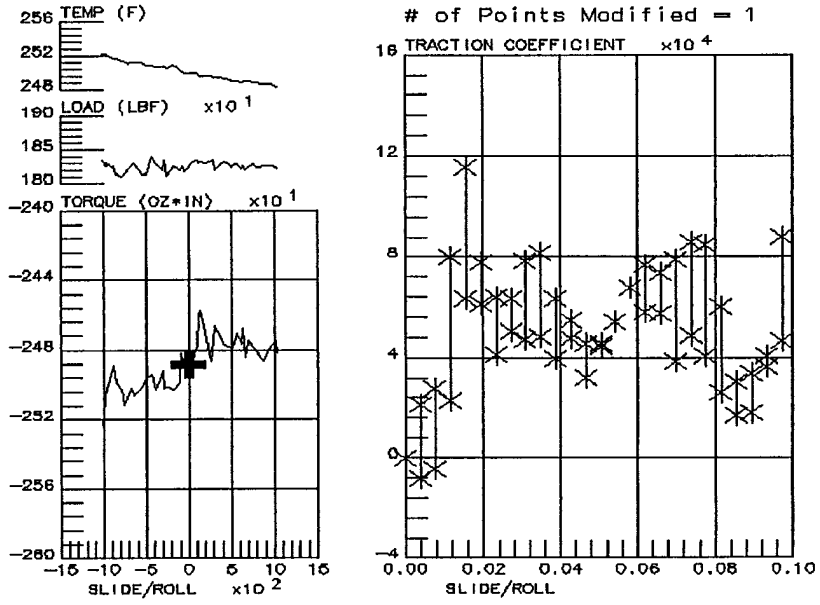
# of Points Modified = 1



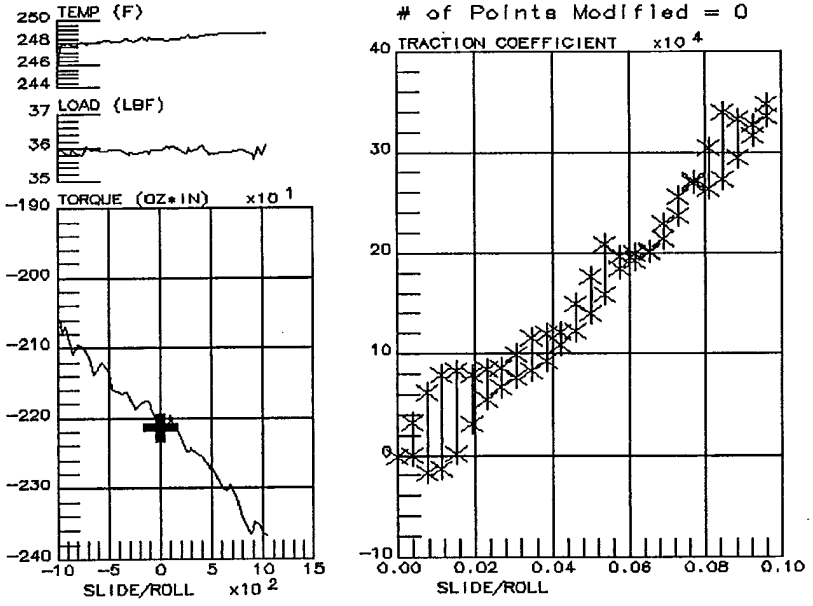
CP 90-715 ~300 Hatcol 3110 #177
250F 147LBF 1280RPM 15 FILE: cp2501



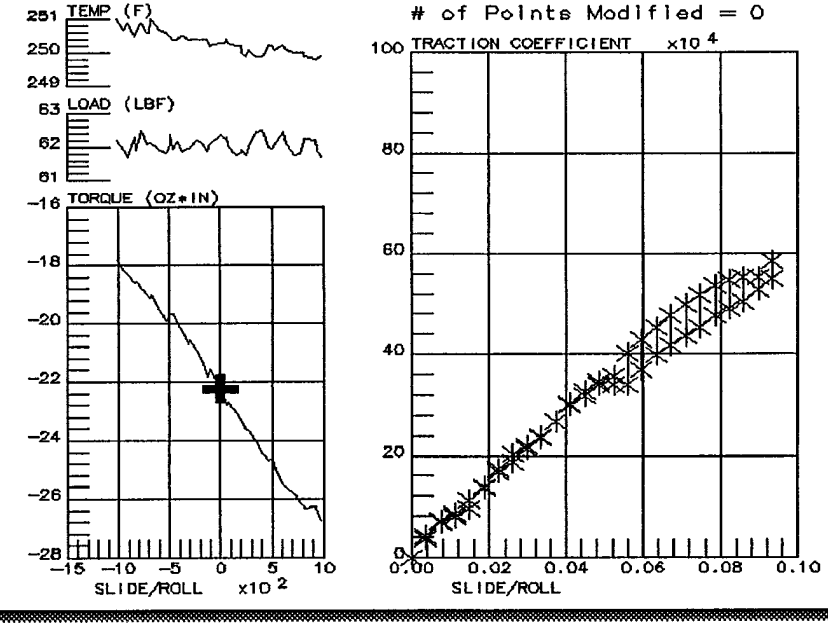
CP 90-715 ~300 Hatcol 3110 #178
250F 18LBF 2603RPM 1 FILE: cp250m

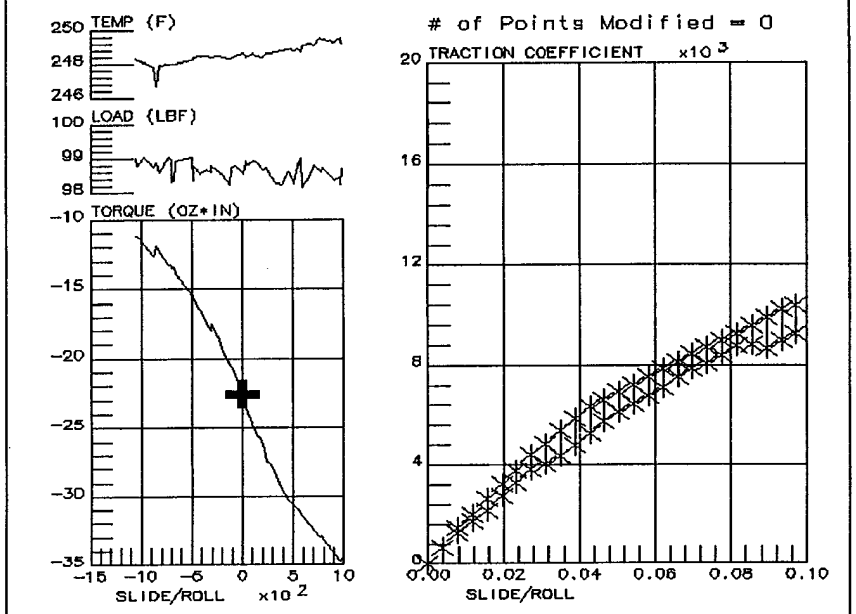


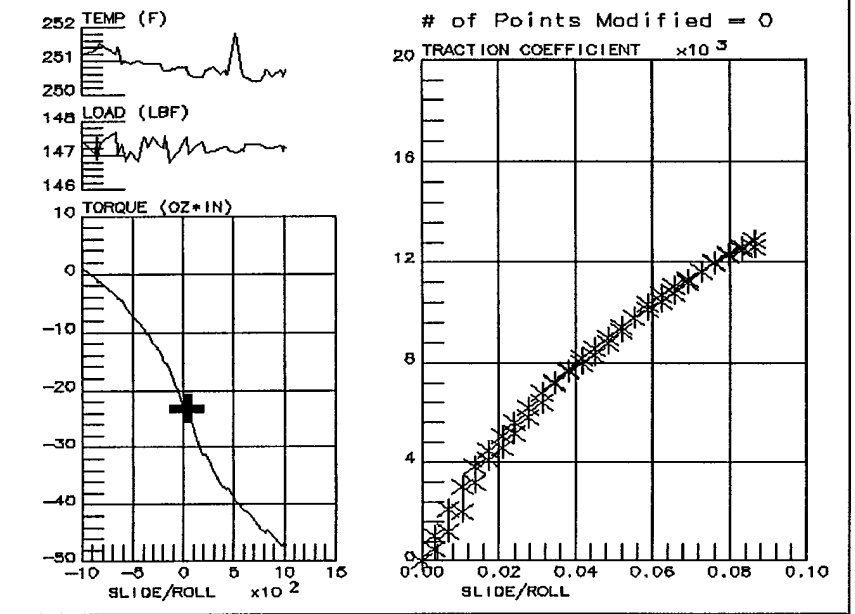
CP 90-715 ~300 Hatcol 3110 #179
250F 36LBF 2603RPM 2 FILE: cp250m

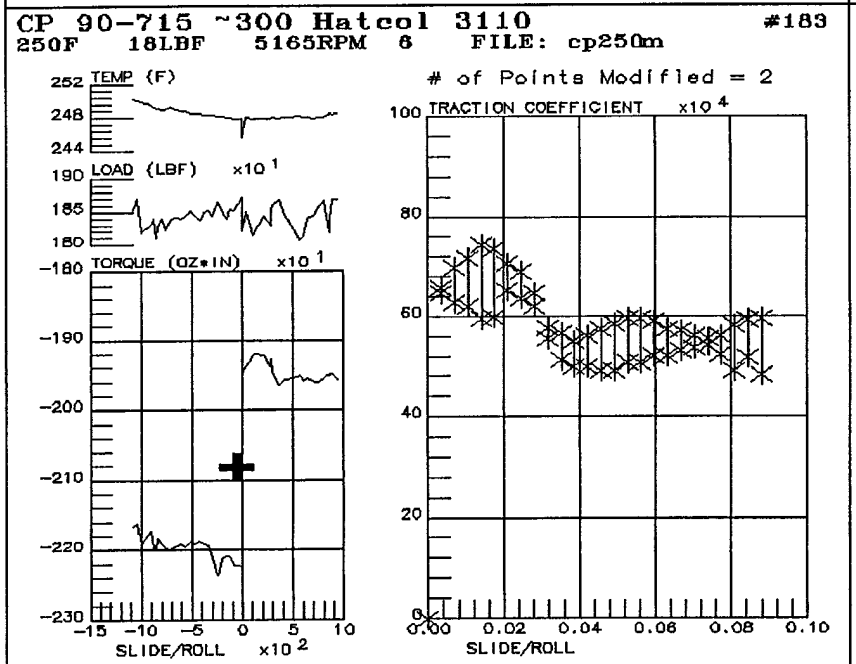


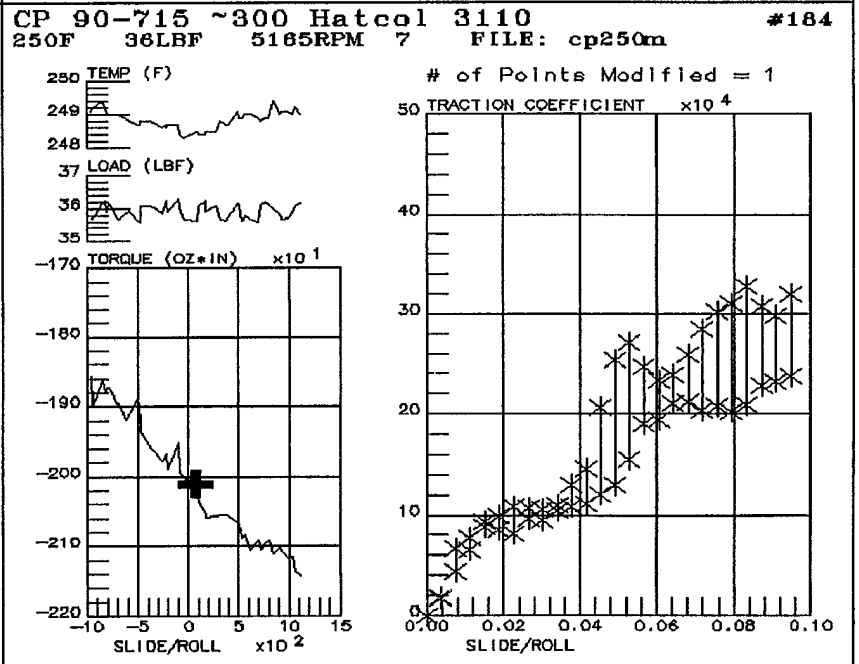
CP 90-715 ~300 Hatcol 3110 #180
250F 62LBF 2603RPM 3 FILE: cp250m



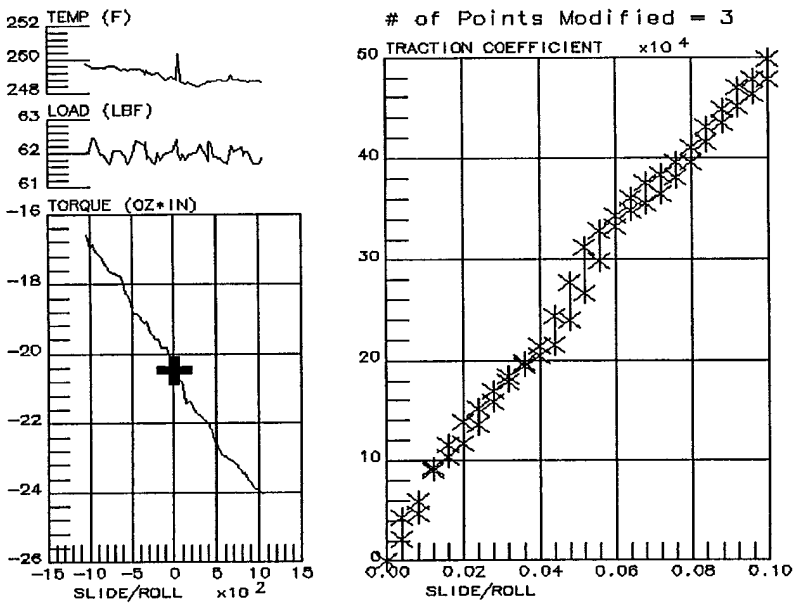

CP 90-715 ~300 Hatcol 3110 #181
250F 99LBF 2603RPM 4 FILE: cp250m
TEMP (F)
LOAD (LBF)
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
# of Points Modified = 0
TRACTION COEFFICIENT x10 3
SLIDE/ROLL


CP 90-715 ~300 Hatcol 3110 #182
250F 147LBF 2603RPM 5 FILE: cp250m
TEMP (F)
LOAD (LBF)
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
# of Points Modified = 0
TRACTION COEFFICIENT x10 3
SLIDE/ROLL


CP 90-715 ~300 Hatcol 3110 #183
250F 18LBF 5165RPM 6 FILE: cp250m
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN) x10 1
SLIDE/ROLL x10 2
# of Points Modified = 2
TRACTION COEFFICIENT x10 4
SLIDE/ROLL

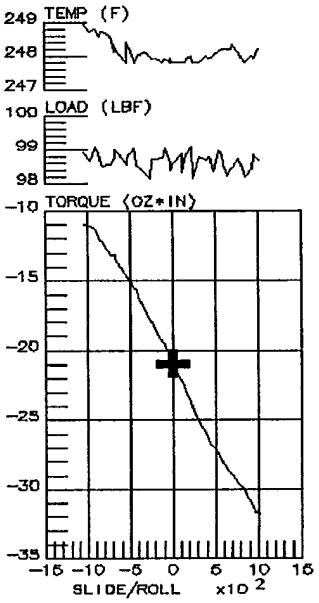

CP 90-715 ~300 Hatcol 3110 #184
250F 36LBF 5165RPM 7 FILE: cp250m
TEMP (F)
LOAD (LBF)
TORQUE (OZ*IN) x10 1
SLIDE/ROLL x10 2
# of Points Modified = 1
TRACTION COEFFICIENT x10 4
SLIDE/ROLL

CP 90-715 ~300 Hatcol 3110 #185
250F 82LBF 5165RPM 8 FILE: cp250m

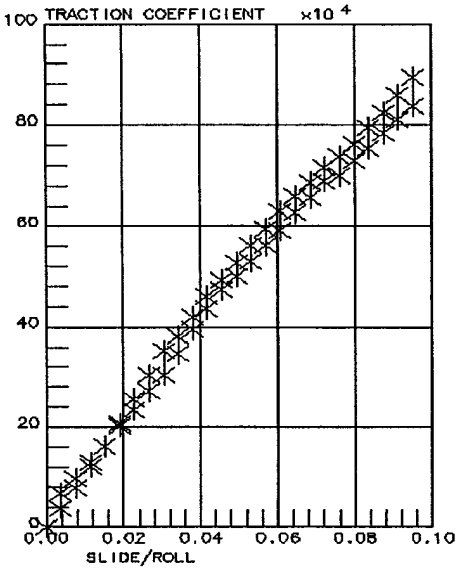


# of Points Modified = 3

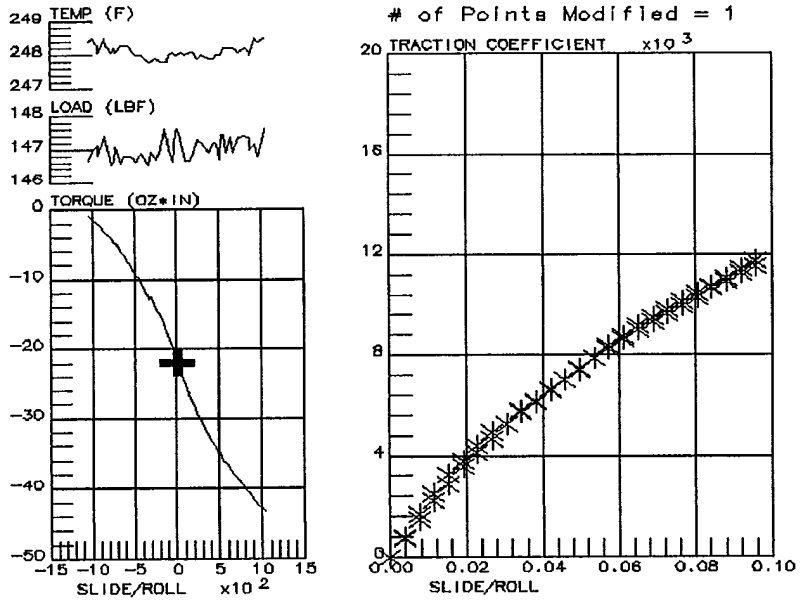
CP 90-715 ~300 Hatcol 3110 #186
250F 99LBF 5165RPM 9 FILE: cp250m



# of Points Modified = 2

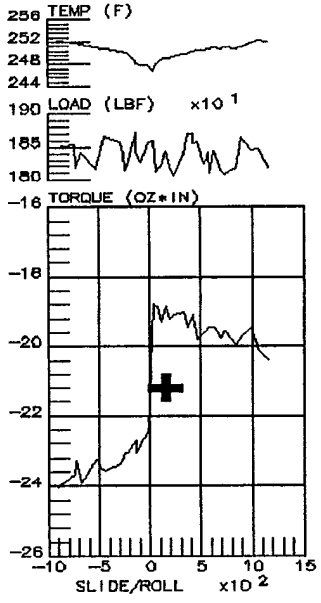


CP 90-715 ~300 Hatcol 3110 #187
250F 147LBF 5165RPM 10 FILE: cp250m

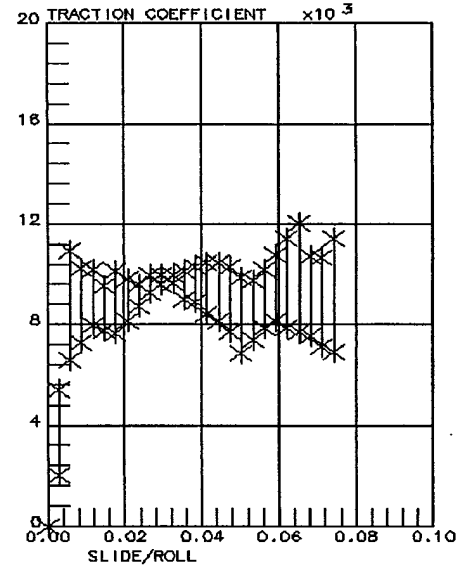


# of Points Modified = 1

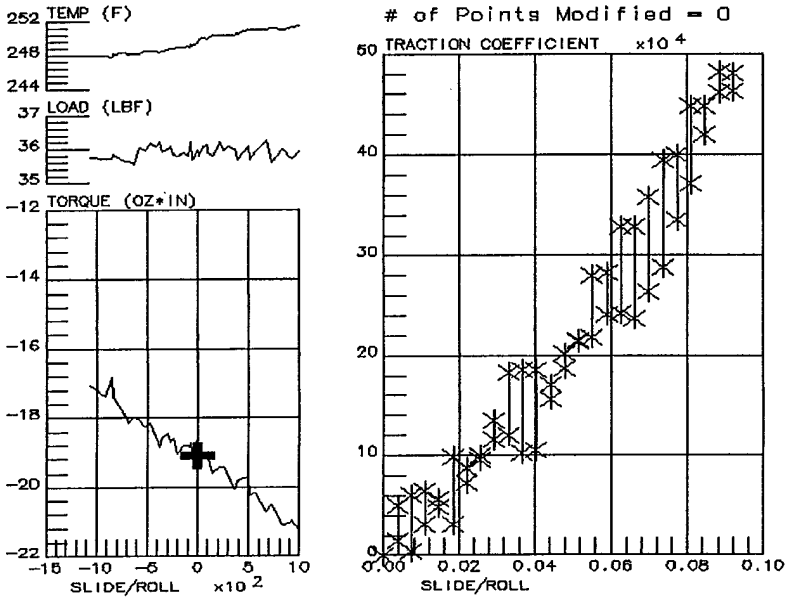
CP 90-715 ~300 Hatcol 3110 #188
250F 18LBF 7770RPM 1 FILE: cp250h



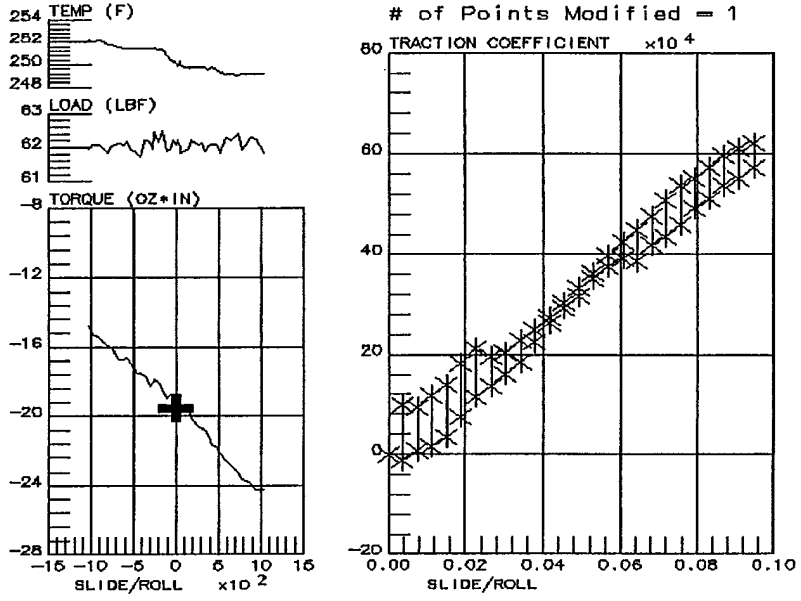
# of Points Modified = 0



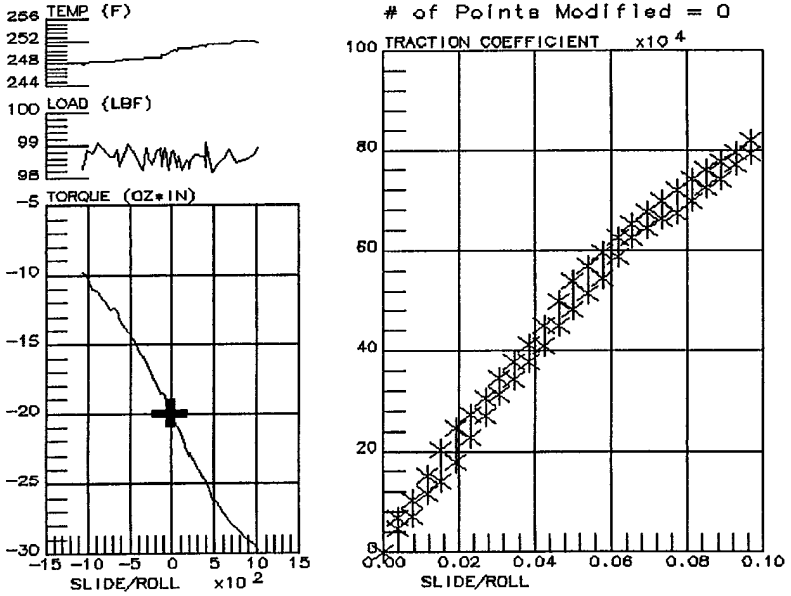
CP 90-715 ~300 Hatcol 3110 #189
250F 36LBF 7770RPM 2 FILE: cp250h



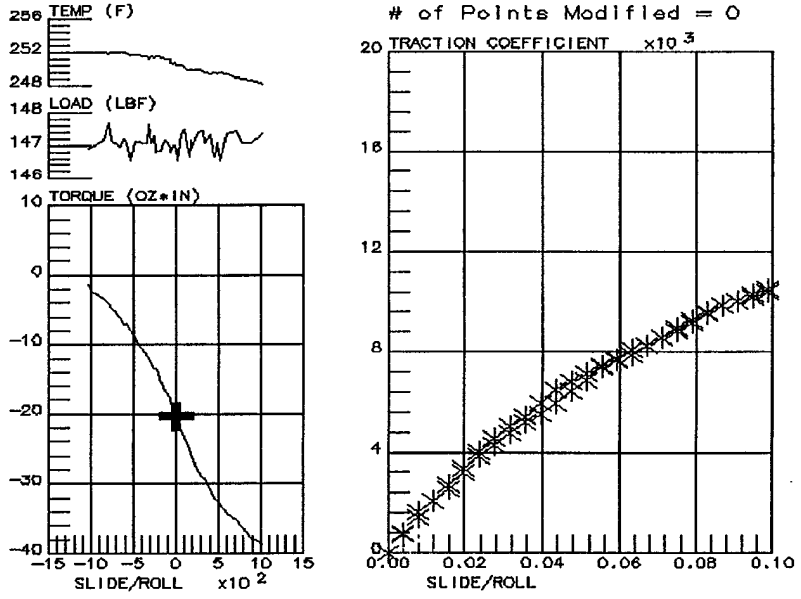
CP 90-715 ~300 Hatcol 3110 #190
250F 62LBF 7770RPM 3 FILE: cp250h



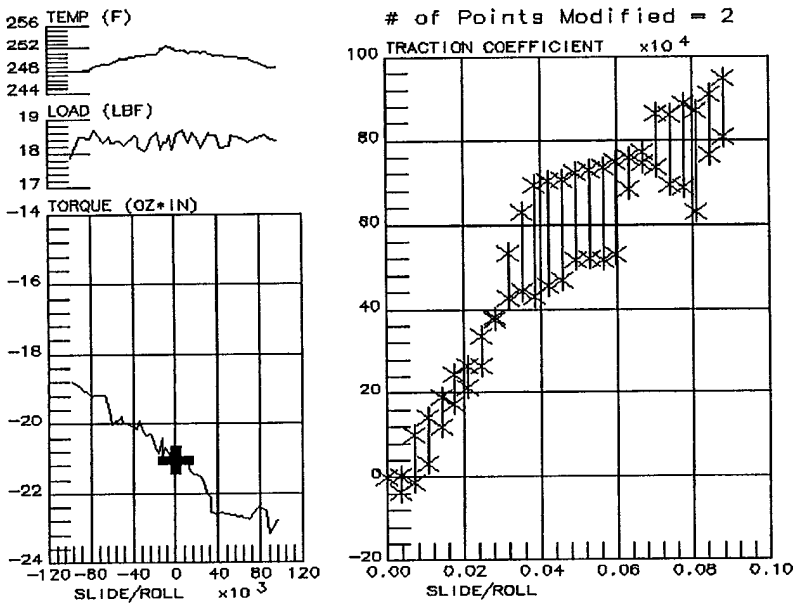
CP 90-715 ~300 Hatcol 3110 #191
250F 99LBF 7770RPM 4 FILE: cp250h



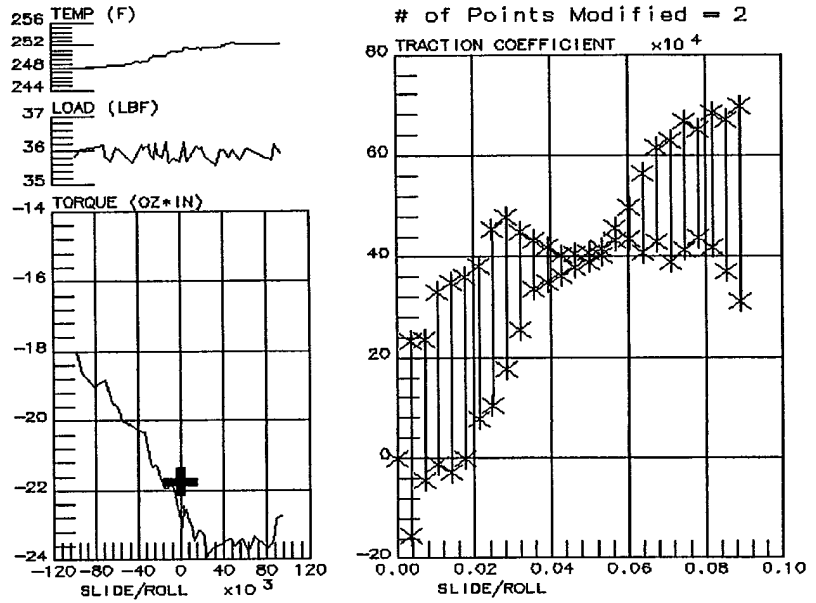
CP 90-715 ~300 Hatcol 3110 #192
250F 147LBF 7770RPM 5 FILE: cp250h



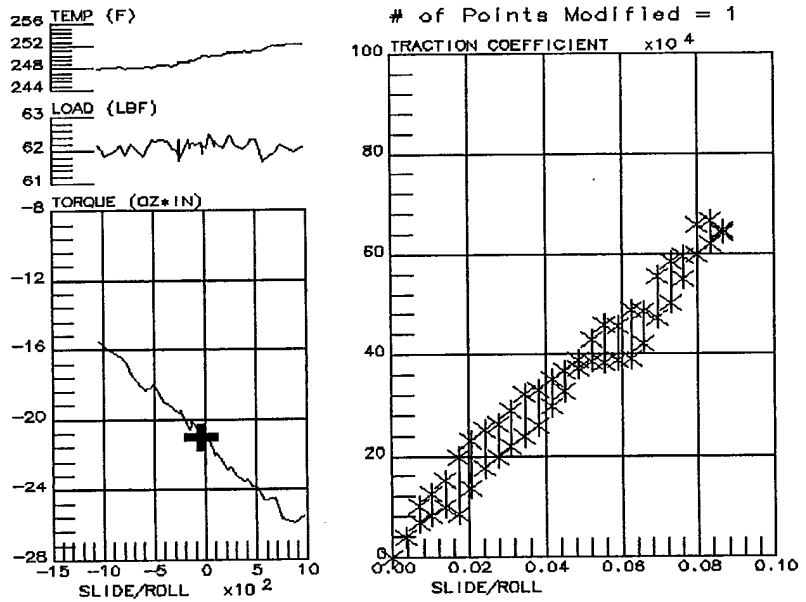
CP 90-715 ~300 Hatcol 3110 #193
250F 18LBF 10370RPM 8 FILE: cp250h



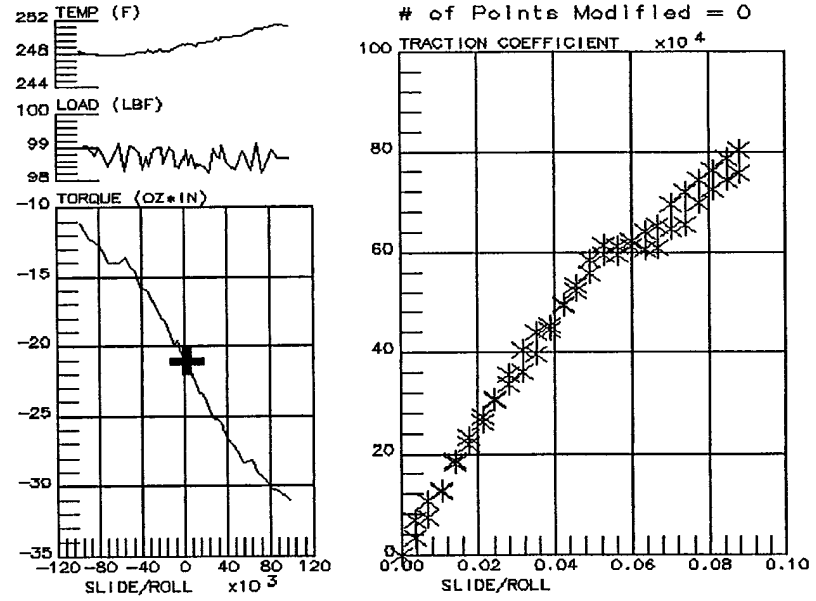
CP 90-715 ~300 Hatcol 3110 #194
250F 36LBF 10370RPM 7 FILE: cp250h



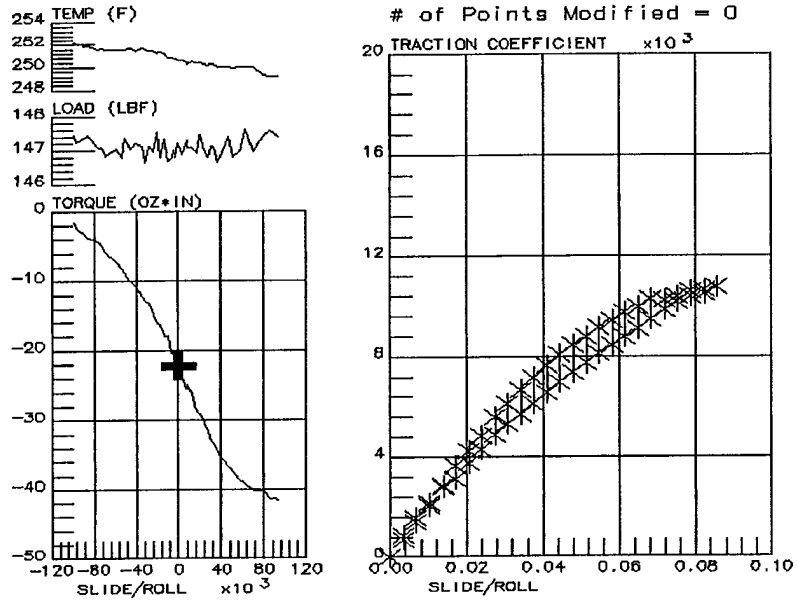
CP 90-715 ~300 Hatcol 3110 #195
250F 62LBF 10370RPM 8 FILE: cp250h



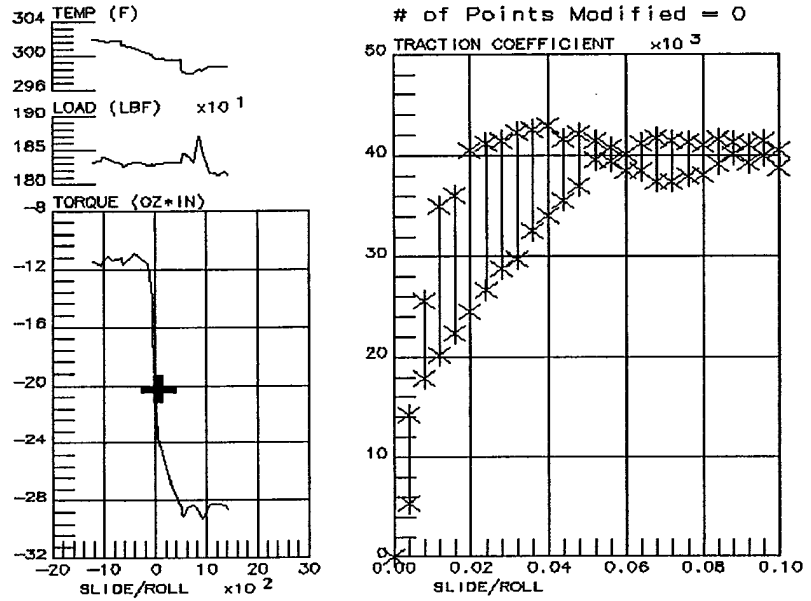
CP 90-715 ~300 Hatcol 3110 #196
250F 99LBF 10370RPM 9 FILE: cp250h



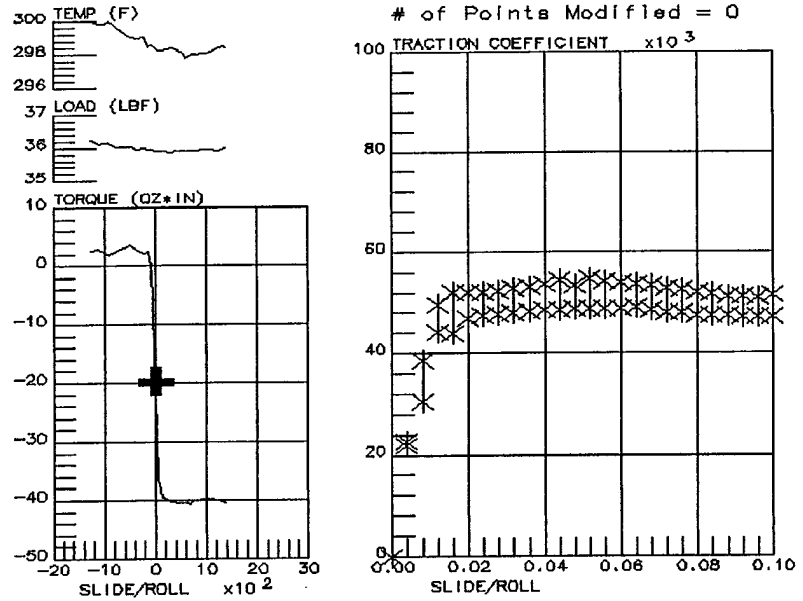
CP 90-715 ~300 Hatcol 3110 #197
250F 147LBF 10370RPM 10 FILE: cp250h



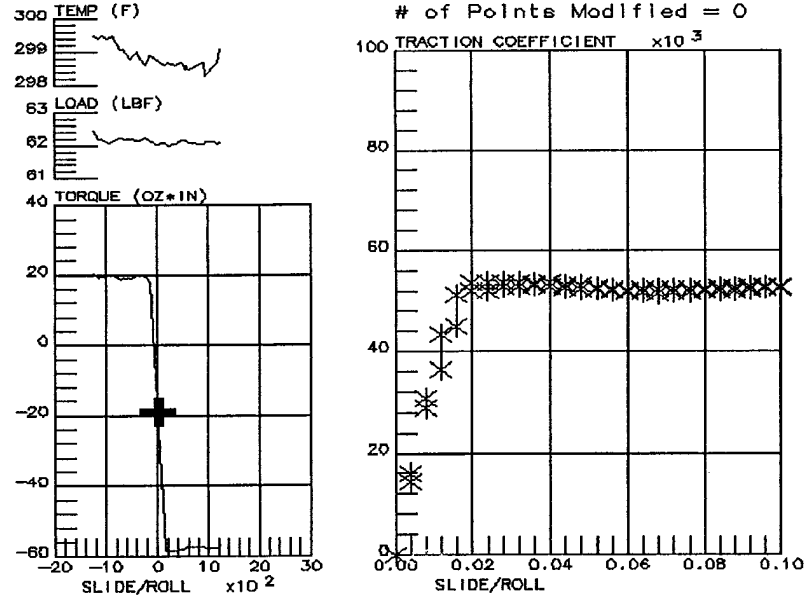
CP 90-715 ~300 Hatcol 3110 #198
300F 18LBF 310RPM 1 FILE: cp3001



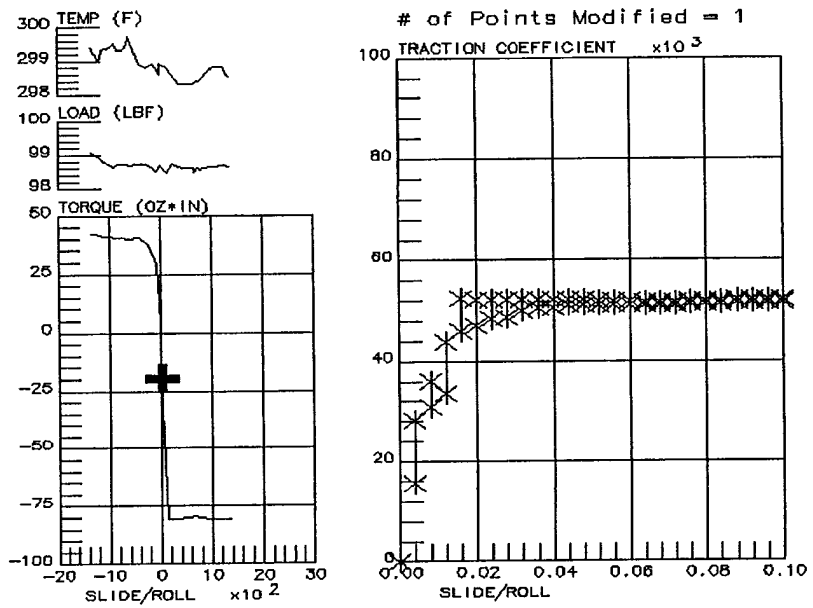
CP 90-715 ~300 Hatcol 3110 #199
300F 36LBF 310RPM 2 FILE: cp3001



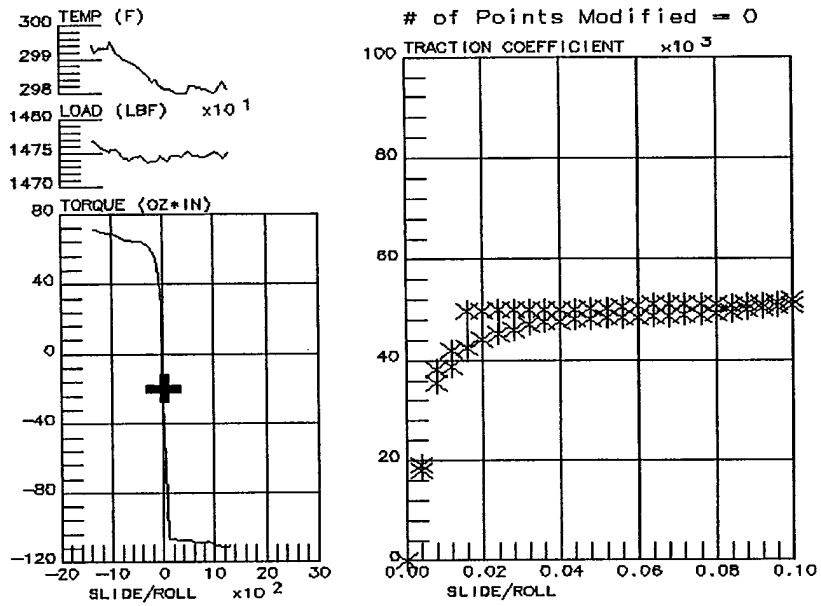
CP 90-715 ~300 Hatcol 3110 #200
300F 62LBF 310RPM 3 FILE: cp3001



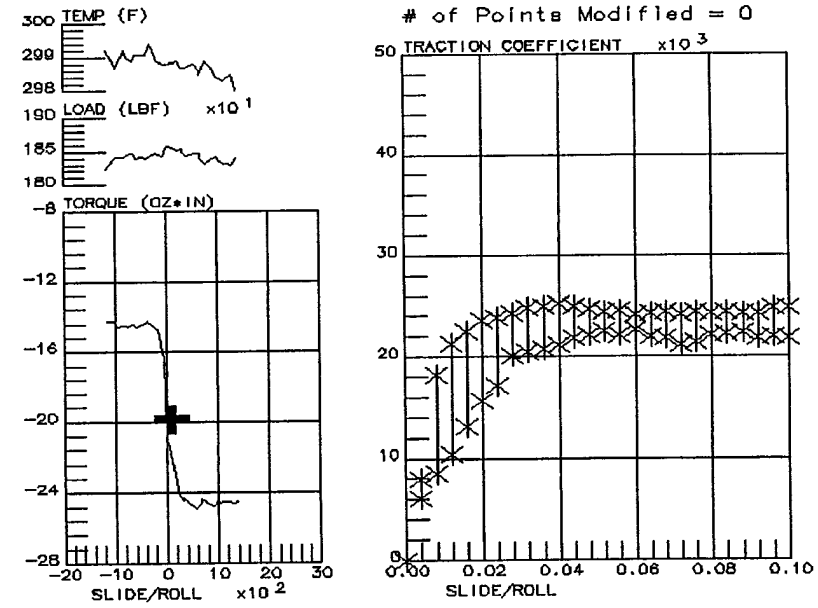
CP 90-715 ~300 Hatcol 3110 #201
300F 99LBF 310RPM 4 FILE: cp3001



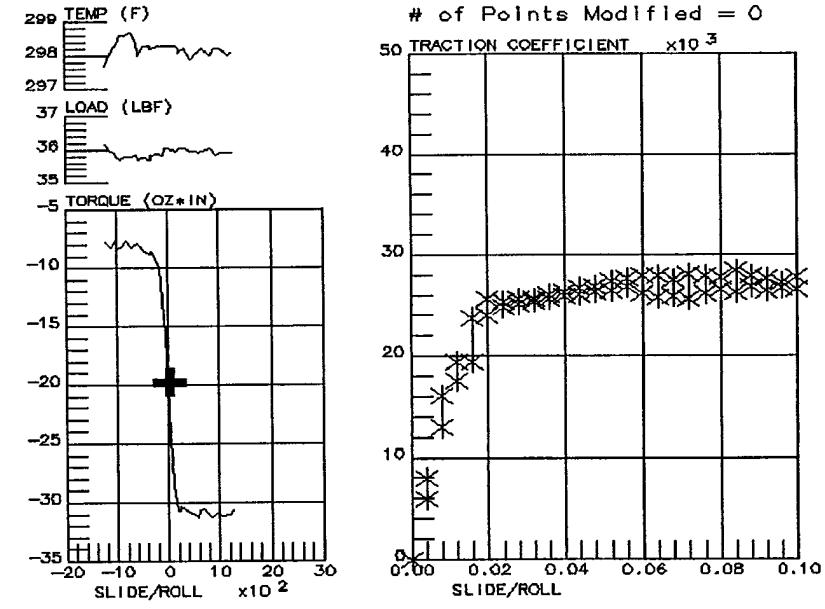
CP 90-715 ~300 Hatcol 3110 #202
300F 147LBF 310RPM 5 FILE: cp3001



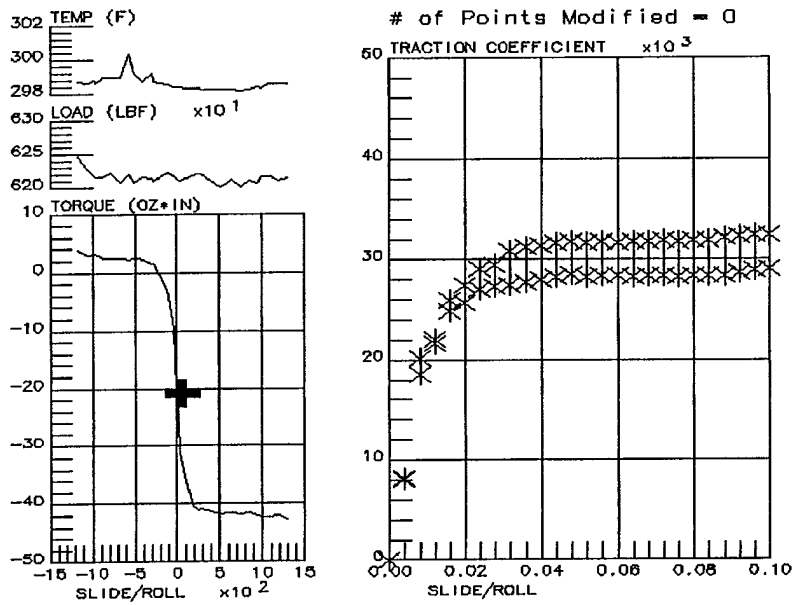
CP 90-715 ~300 Hatcol 3110 #203
300F 18LBF 660RPM 6 FILE: cp3001



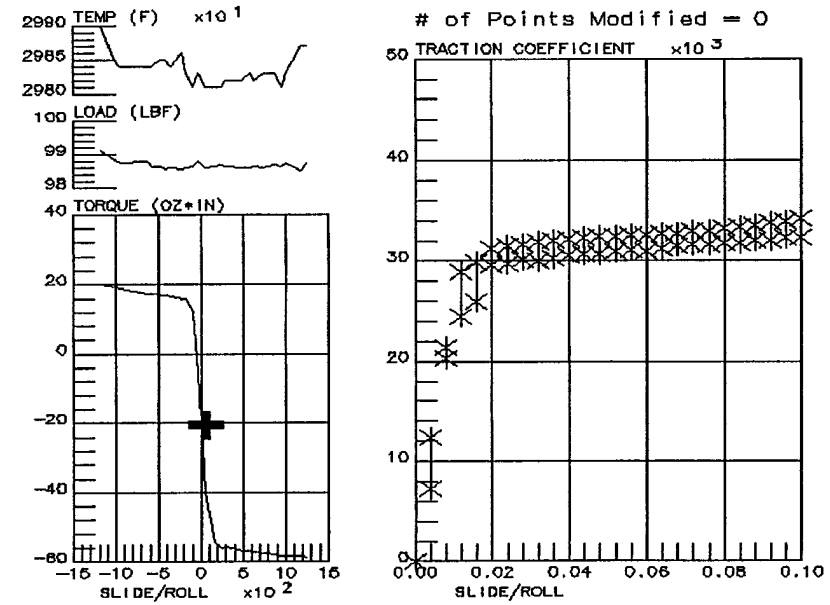
CP 90-715 ~300 Hatcol 3110 #204
300F 36LBF 660RPM 7 FILE: cp3001



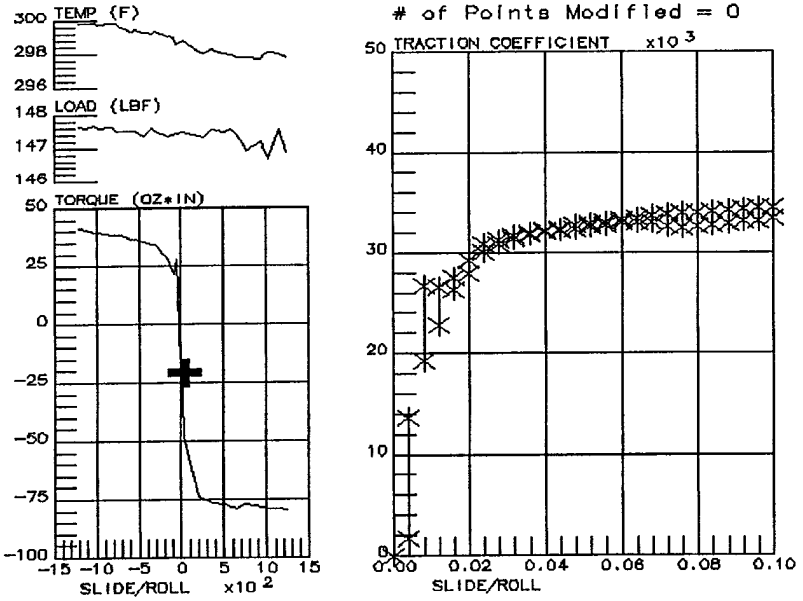
CP 90-715 ~300 Hatcol 3110 #205
300F 62LBF 660RPM 8 FILE: cp3001



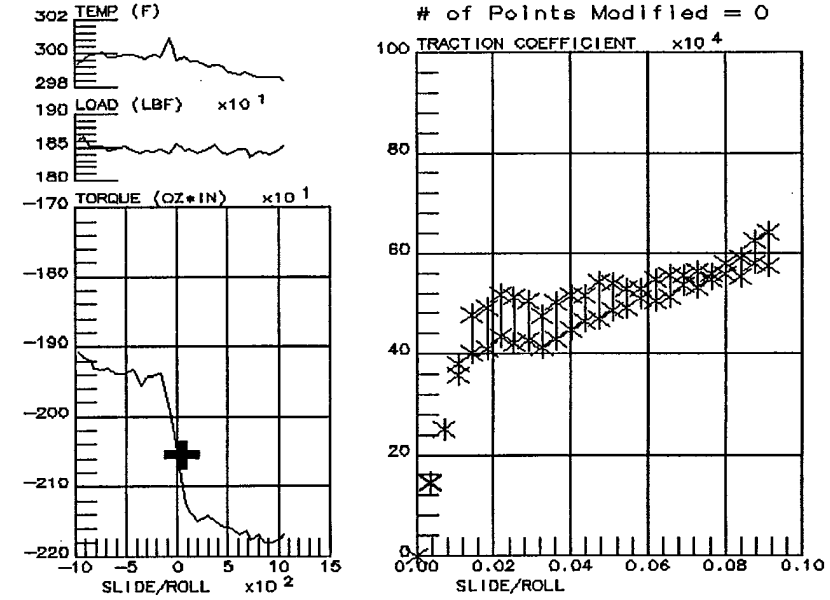
CP 90-715 ~300 Hatcol 3110 #206
300F 99LBF 660RPM 9 FILE: cp3001



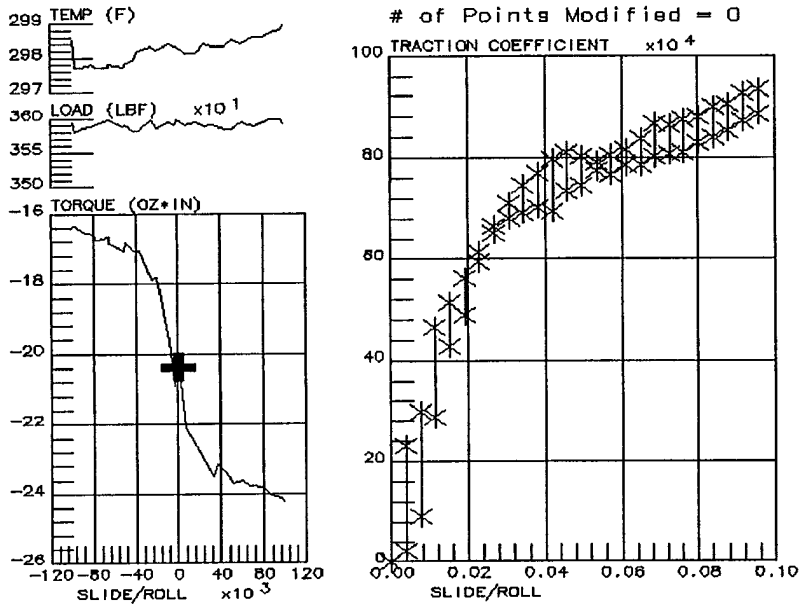
CP 90-715 ~300 Hatcol 3110 #207
300F 147LBF 660RPM 10 FILE: cp3001



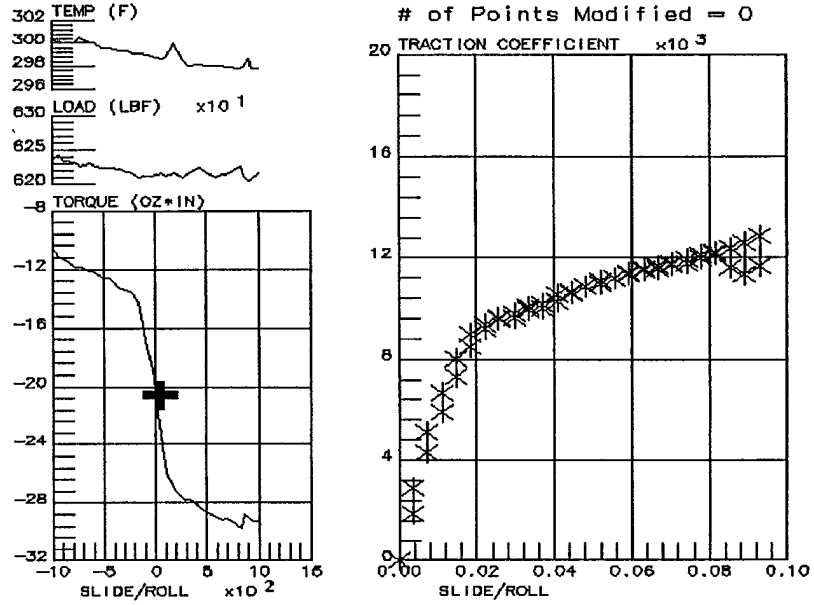
CP 90-715 ~300 Hatcol 3110 #208
300F 18LBF 1280RPM 11 FILE: cp3001



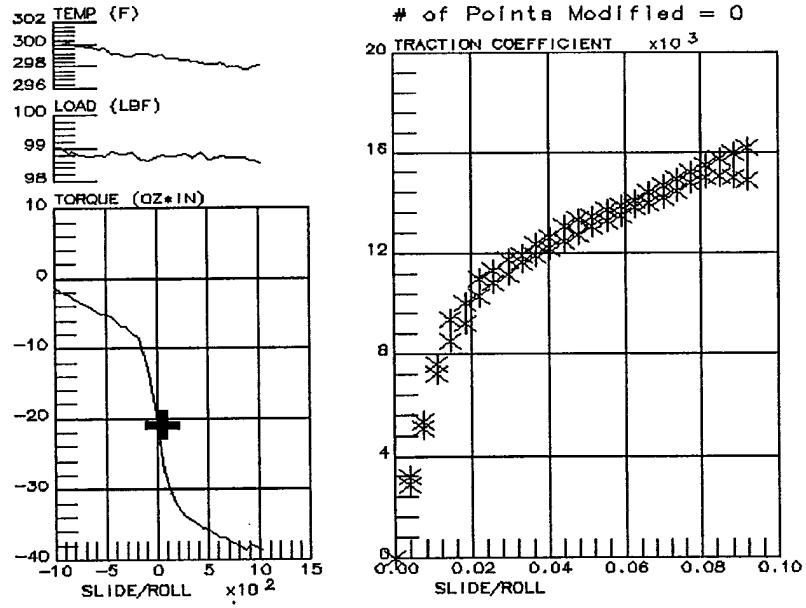
CP 90-715 ~300 Hatcol 3110 #209
300F 36LBF 1280RPM 12 FILE: cp3001



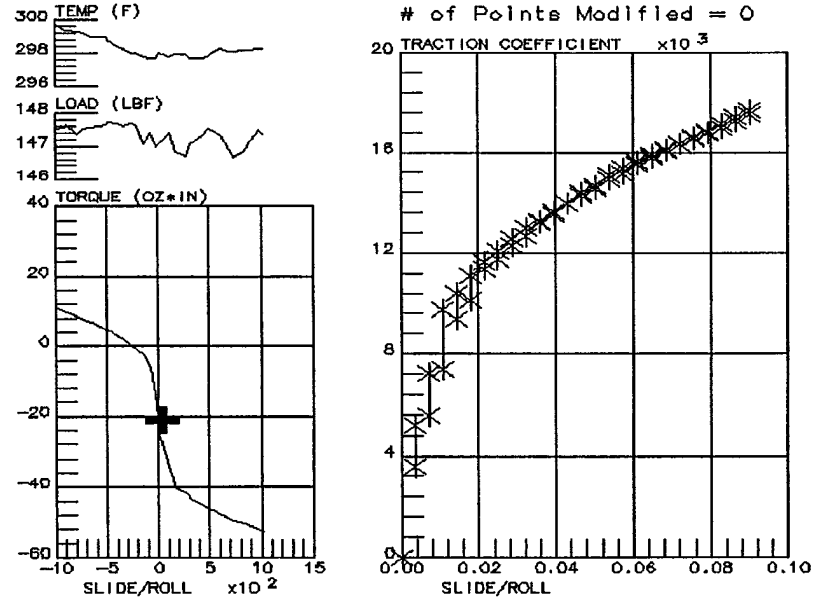
CP 90-715 ~300 Hatcol 3110 #210
300F 62LBF 1280RPM 13 FILE: cp3001



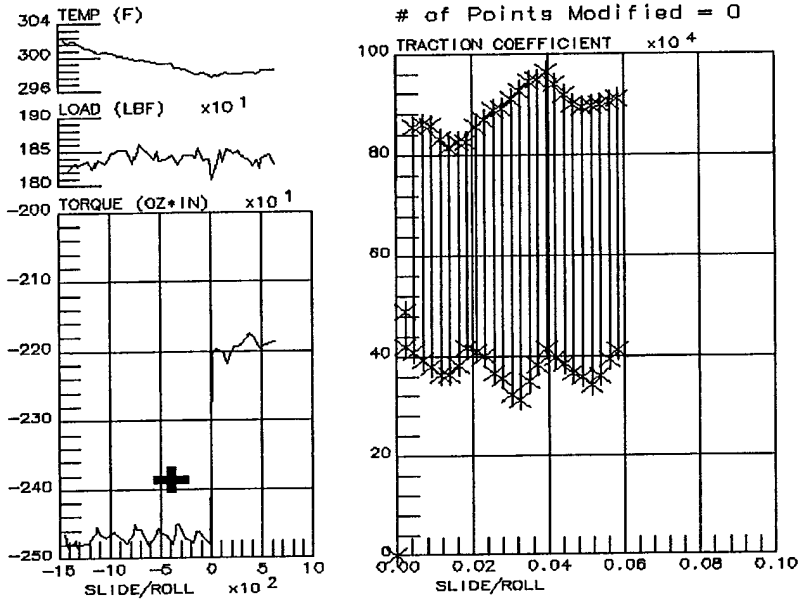
CP 90-715 ~300 Hatcol 3110 #211
300F 99LBF 1280RPM 14 FILE: cp3001



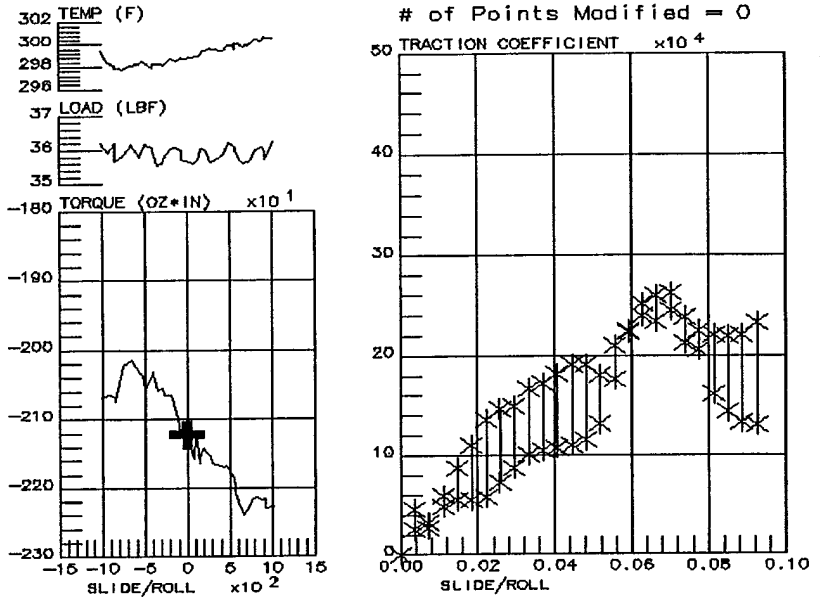
CP 90-715 ~300 Hatcol 3110 #212
300F 147LBF 1280RPM 15 FILE: cp3001



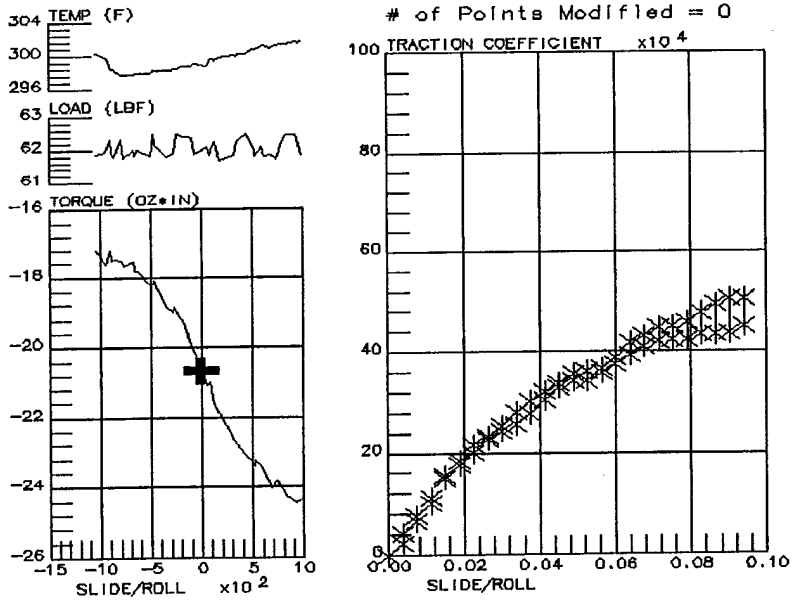
CP 90-715 ~300 Hatcol 3110 #213
300F 18LBF 2603RPM 1 FILE: cp300m



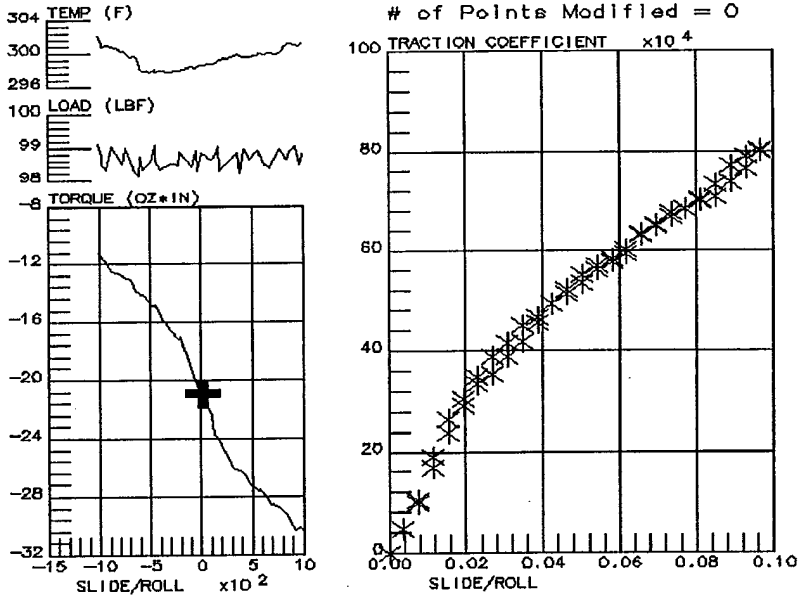
CP 90-715 ~300 Hatcol 3110 #214
300F 36LBF 2603RPM 2 FILE: cp300m



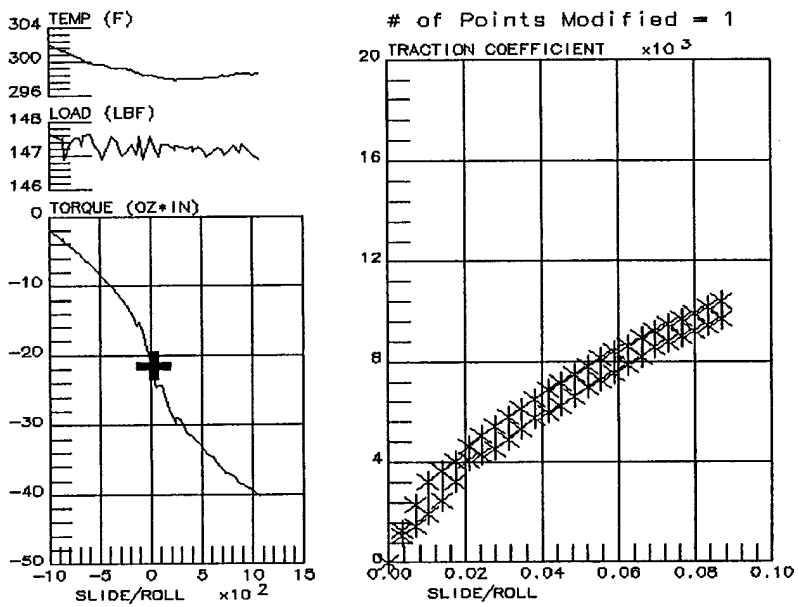
CP 90-715 ~300 Hatcol 3110 #215
300F 62LBF 2603RPM 3 FILE: cp300m



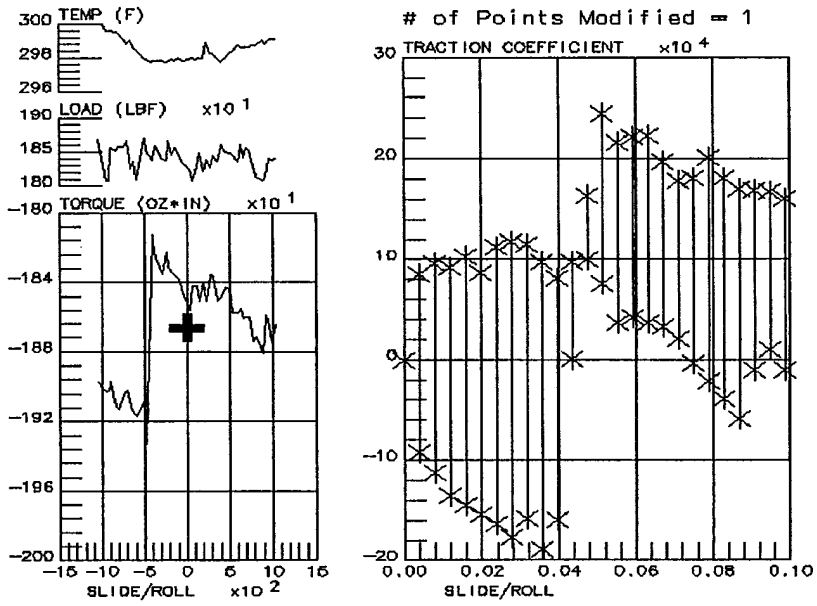
CP 90-715 ~300 Hatcol 3110 #216
300F 99LBF 2603RPM 4 FILE: cp300m



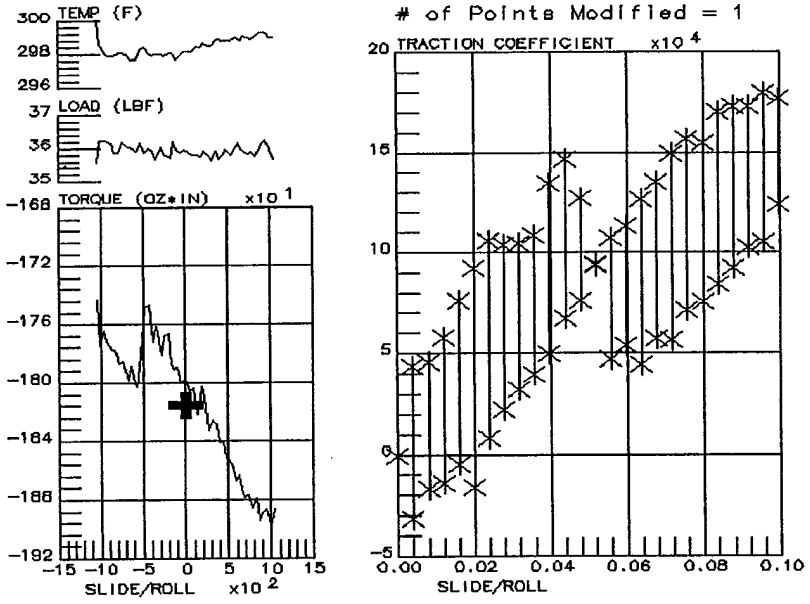
CP 90-715 ~300 Hatcol 3110 #217
300F 147LBF 2603RPM 5 FILE: cp300m



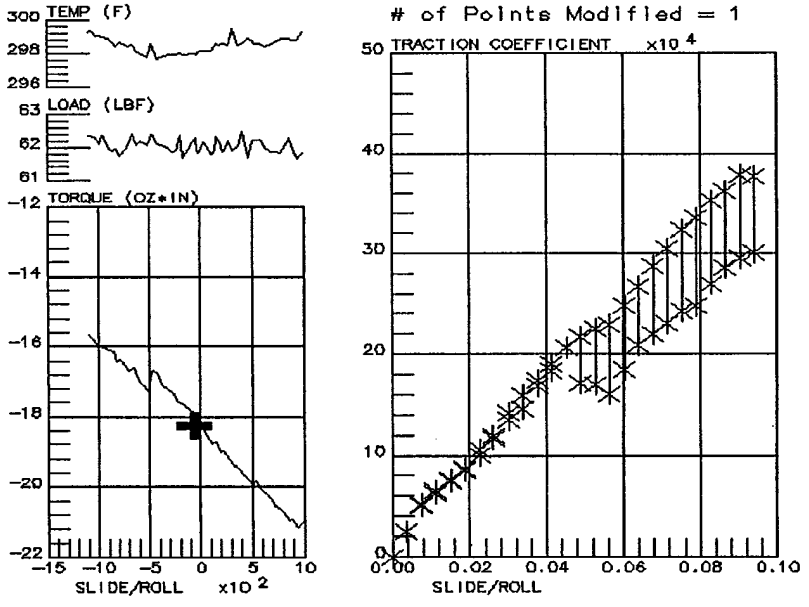
CP 90-715 ~300 Hatcol 3110 #218
300F 18LBF 5165RPM 6 FILE: cp300m



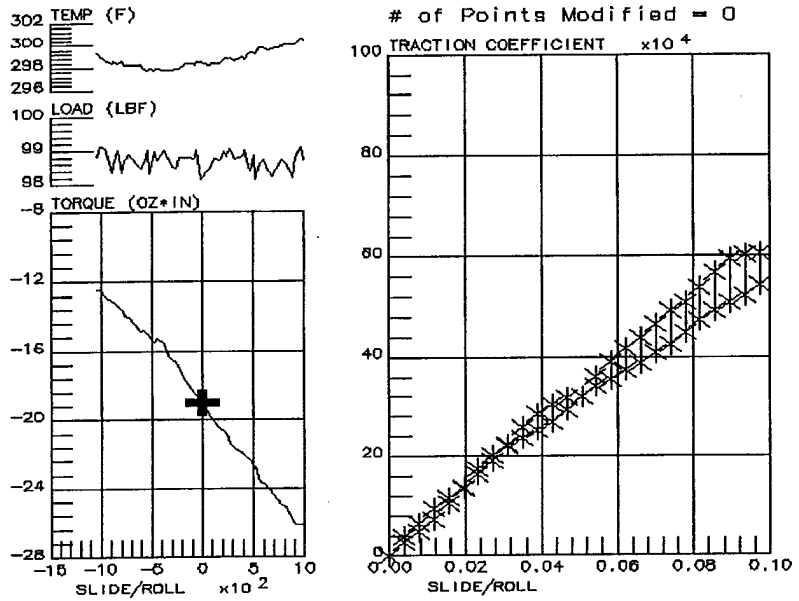
CP 90-715 ~300 Hatcol 3110 #219
300F 36LBF 5165RPM 7 FILE: cp300m



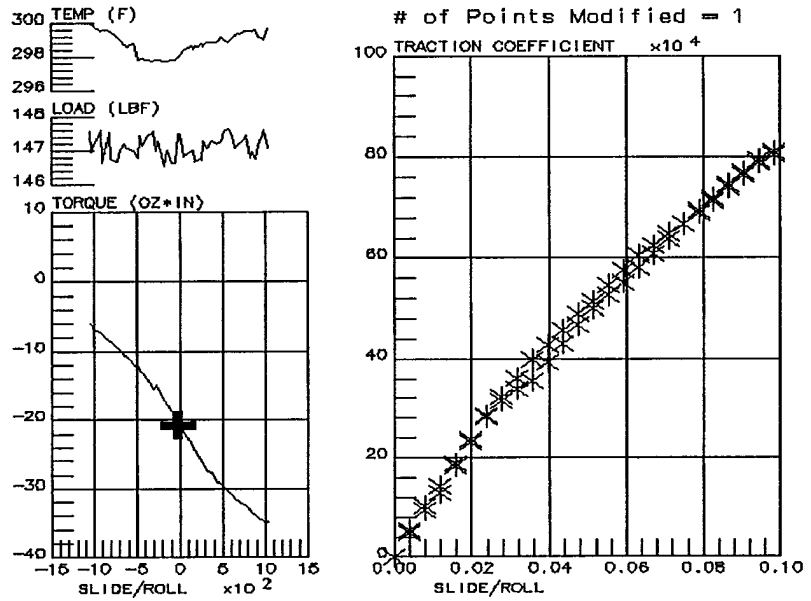
CP 90-715 ~300 Hatcol 3110 #220
300F 62LBF 5165RPM 8 FILE: cp300m



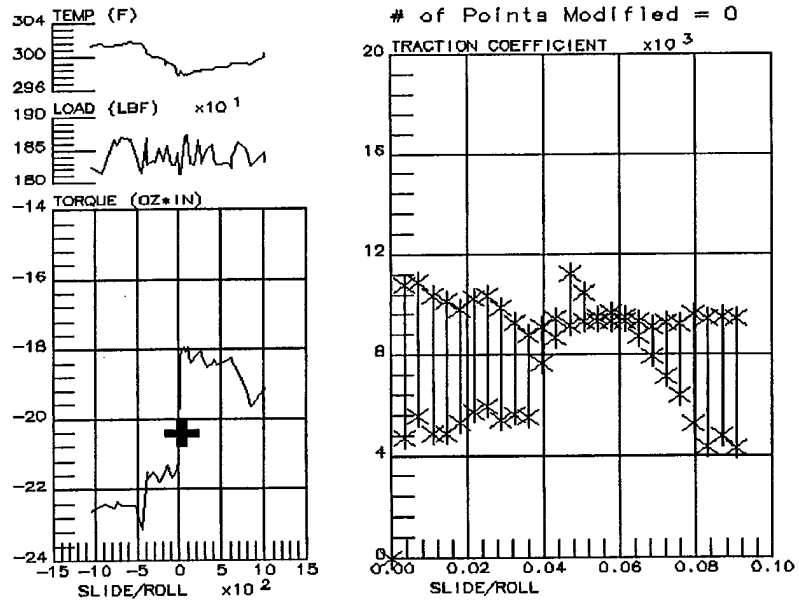
CP 90-715 ~300 Hatcol 3110 #221
300F 99LBF 5165RPM 9 FILE: cp300m



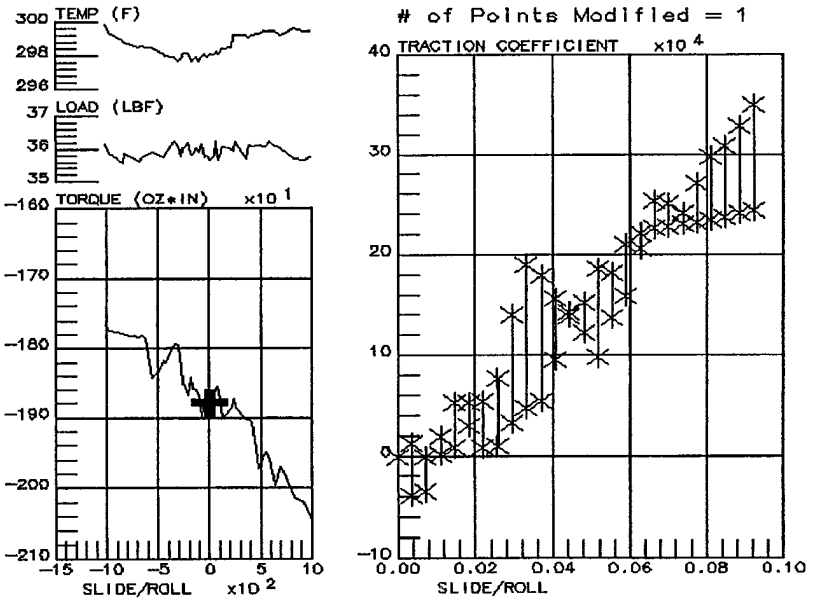
CP 90-715 ~300 Hatcol 3110 #222
300F 147LBF 5165RPM 10 FILE: cp300m



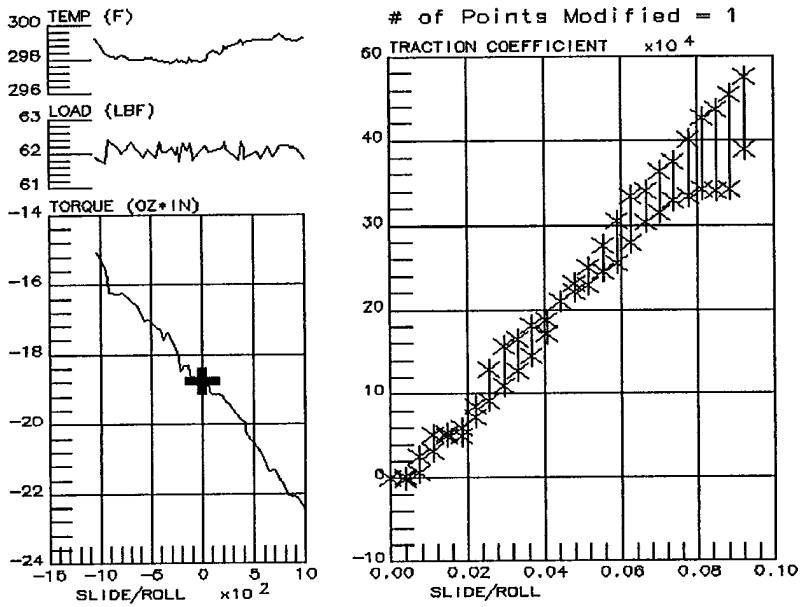
CP 90-715 ~300 Hatcol 3110 #223
300F 18LBF 7770RPM 1 FILE: cp300h



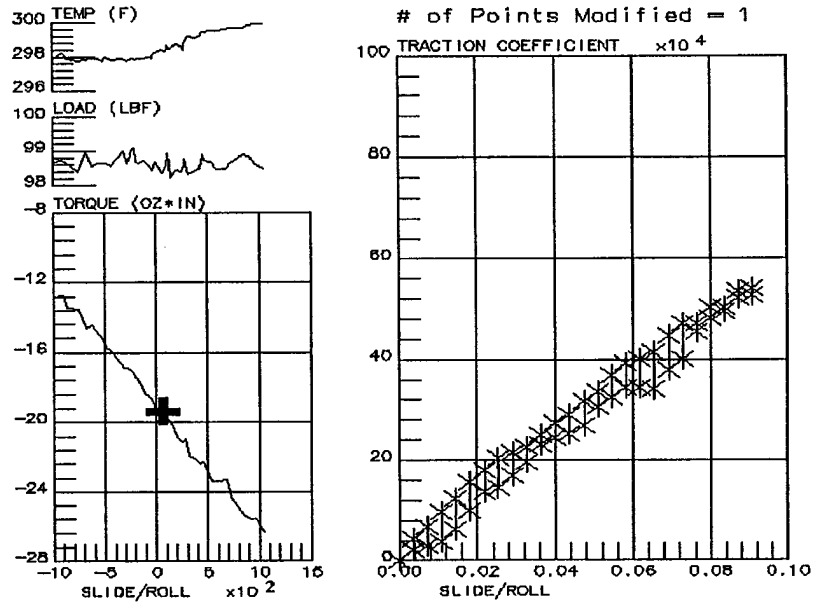
CP 90-715 ~300 Hatcol 3110 #224
300F 36LBF 7770RPM 2 FILE: cp300h



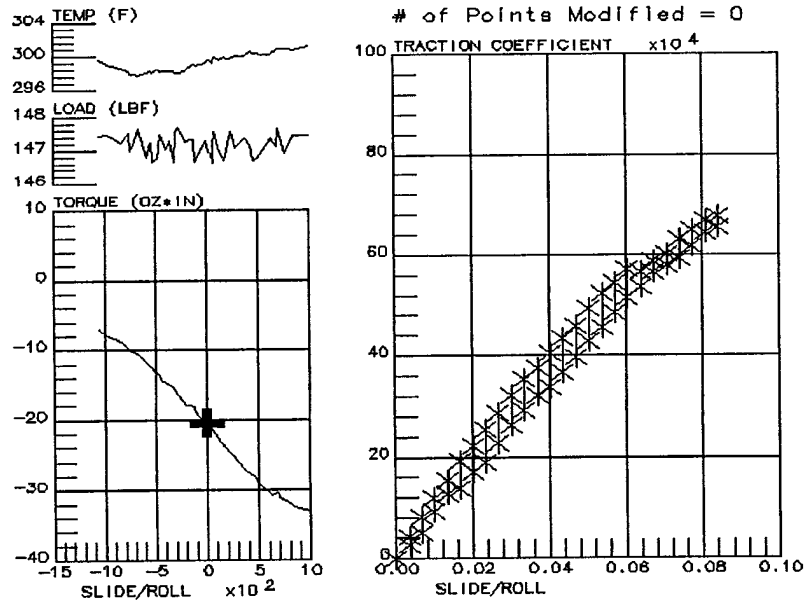
CP 90-715 ~300 Hatcol 3110 #225
300F 62LBF 7770RPM 3 FILE: cp300h



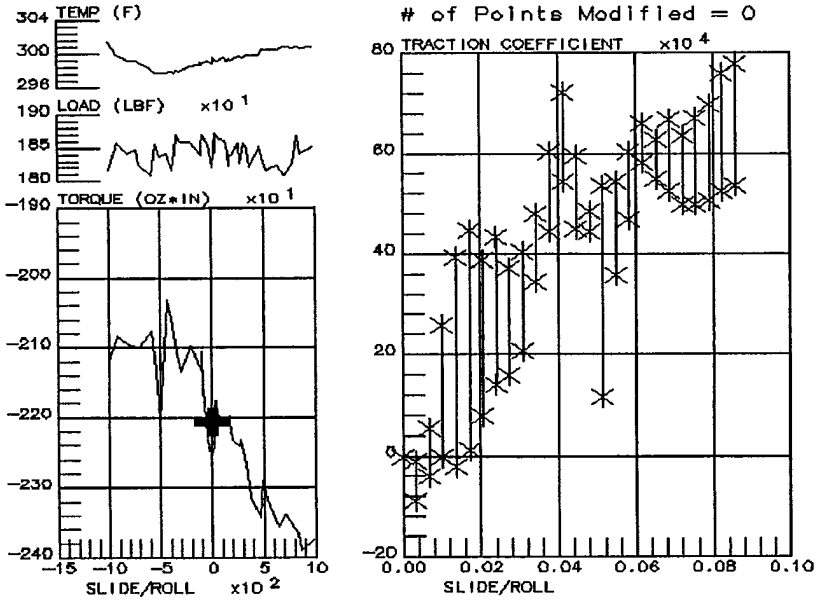
CP 90-715 ~300 Hatcol 3110 #226
300F 99LBF 7770RPM 4 FILE: cp300h



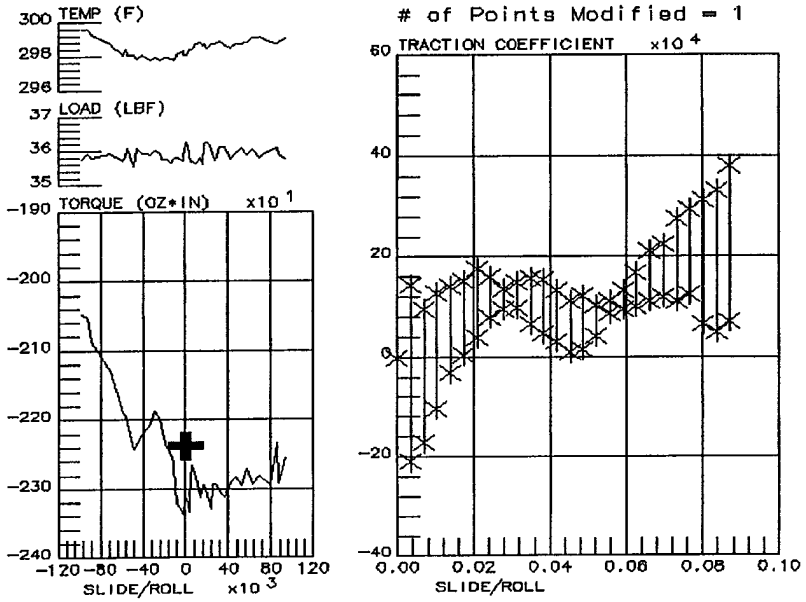
CP 90-715 ~300 Hatcol 3110 #227
300F 147LBF 7770RPM 5 FILE: cp300h



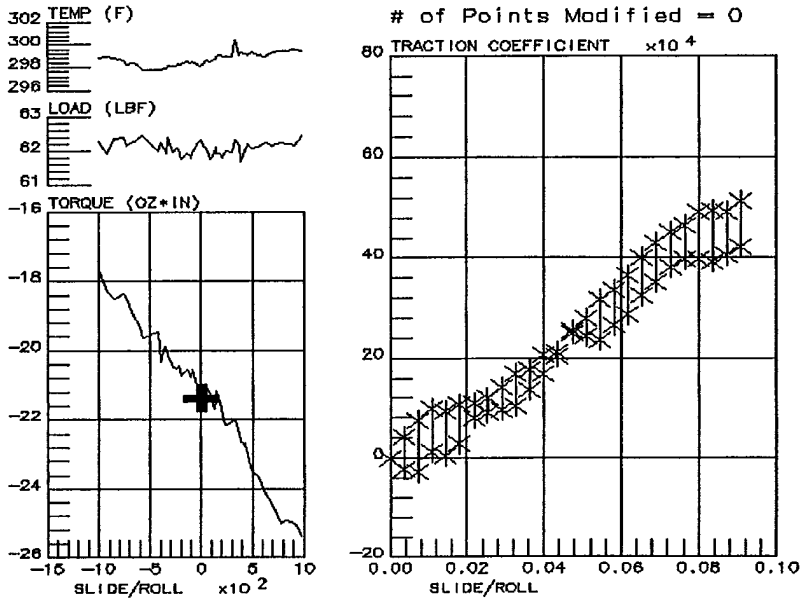
CP 90-715 ~300 Hatcol 3110 #228
300F 18LBF 10370RPM 6 FILE: cp300h



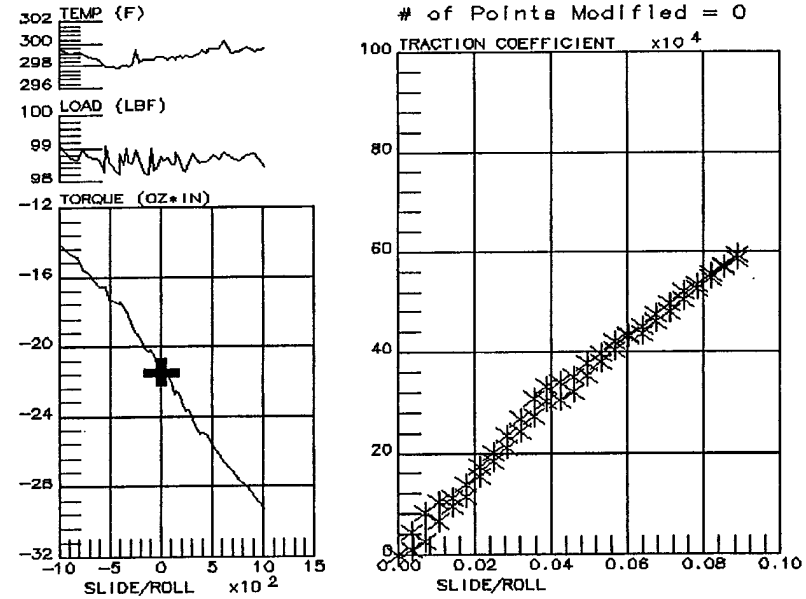
CP 90-715 ~300 Hatcol 3110 #229
300F 36LBF 10370RPM 7 FILE: cp300h



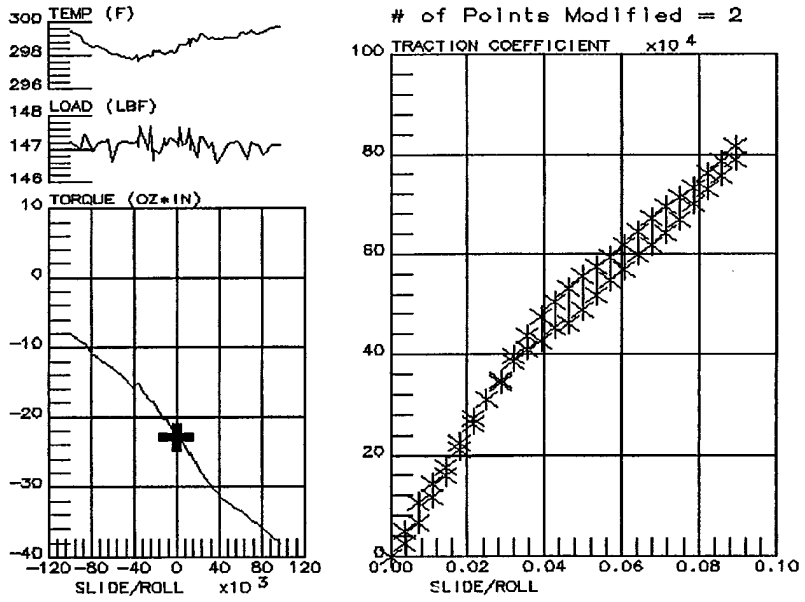
CP 90-715 ~300 Hatcol 3110 #230
300F 62LBF 10370RPM 8 FILE: cp300h



CP 90-715 ~300 Hatcol 3110 #231
300F 99LBF 10370RPM 9 FILE: cp300h



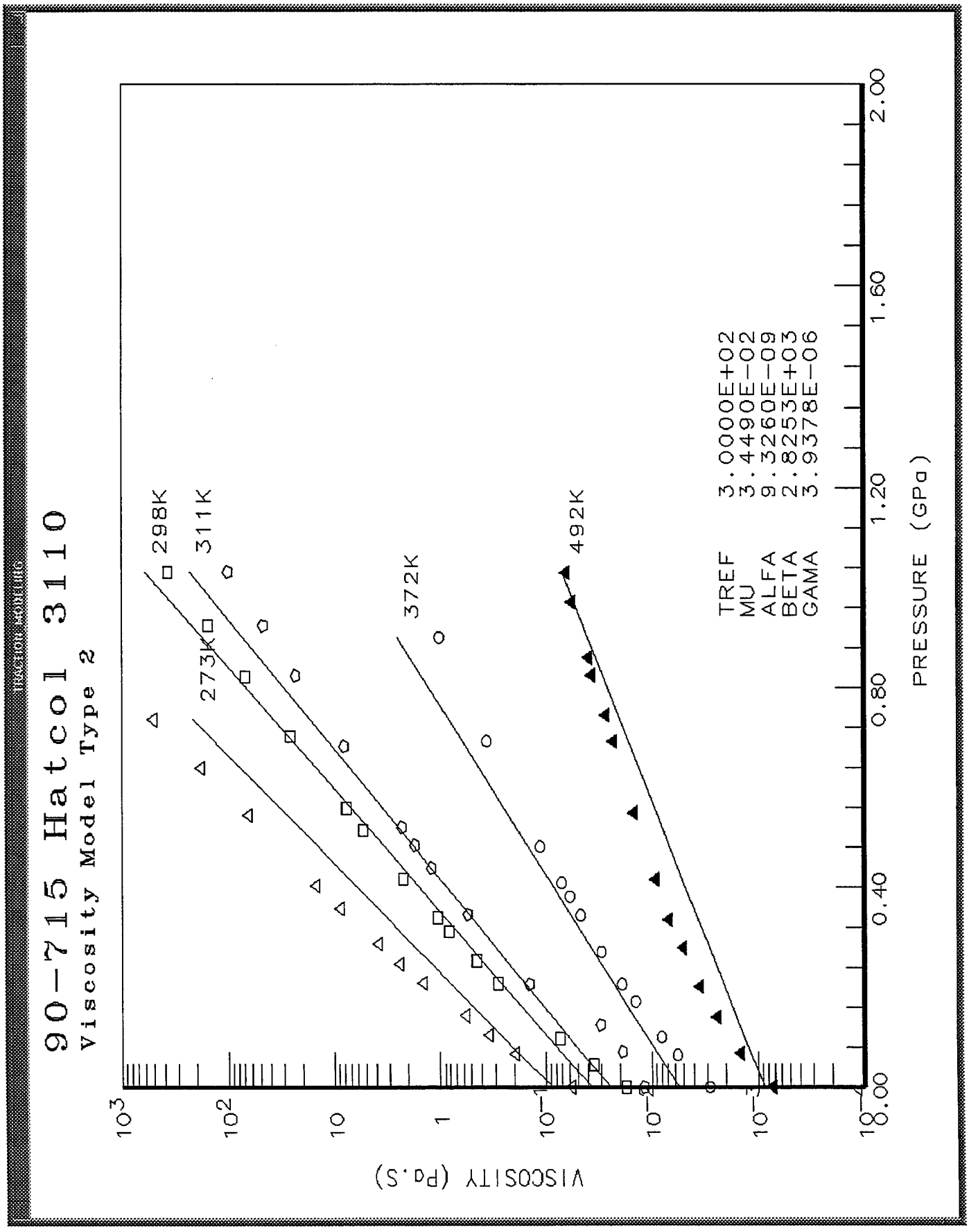
CP 90-715 ~300 Hatcol 3110 #232
300F 147LBF 10370RPM 10 FILE: cp300h



Lubricant name = CP 90-715 Hatcol 3110

NEWTONIAN MODEL TYPE 1

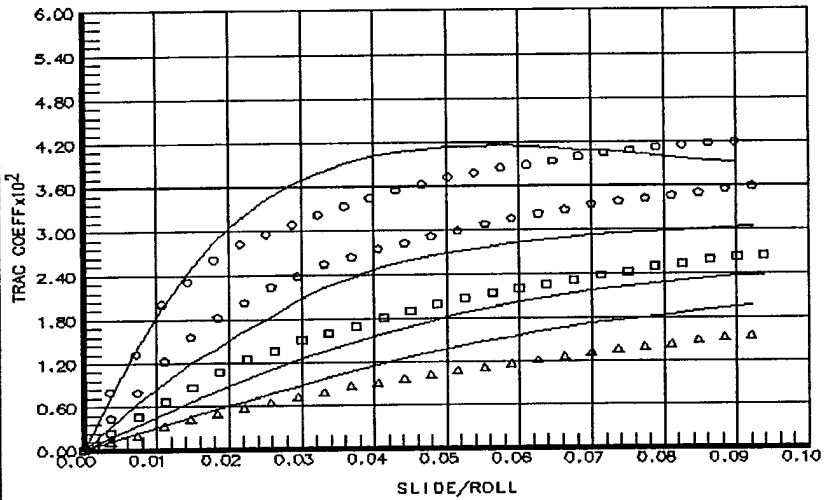
Dataset Name	Inlet Temp (K)	Roll Velocity (M/S)	XMU* (Pa.S)	ALFA* (1/Pa)	BETA* (1/K)
cp2.dat	3.0000E+02	2.5109E+00	9.2051E-01	5.0000E-09	4.3473E-01
cp3.dat	3.0000E+02	5.1062E+00	6.7526E-01	5.0000E-09	1.3732E-01
cp4.dat	3.0000E+02	1.0132E+01	4.5299E-01	5.0000E-09	6.6092E-02
cp5.dat	3.0000E+02	1.5242E+01	4.4691E-01	5.0000E-09	5.6217E-02
cp6.dat	3.0000E+02	2.0342E+01	5.9185E-01	5.0000E-09	6.6681E-02
cp8.dat	3.1111E+02	2.5109E+00	5.8793E-01	5.0000E-09	5.1887E-01
cp9.dat	3.1111E+02	5.1062E+00	4.5114E-01	5.0000E-09	1.4422E-01
cp10.dat	3.1111E+02	1.0132E+01	2.8924E-01	5.0000E-09	6.7605E-02
cp11.dat	3.1111E+02	1.5242E+01	3.2249E-01	5.0000E-09	7.0198E-02
cp12.dat	3.1111E+02	2.0342E+01	4.1836E-01	5.0000E-09	7.3390E-02
cp15.dat	3.3889E+02	5.1062E+00	1.1348E-01	5.0000E-09	1.6931E-01
cp16.dat	3.3889E+02	1.0132E+01	9.0962E-02	5.0000E-09	9.4484E-02
cp17.dat	3.3889E+02	1.5242E+01	9.2071E-02	5.0000E-09	7.6482E-02
cp18.dat	3.3889E+02	2.0342E+01	1.4068E-01	5.0000E-09	1.0353E-01
cp21.dat	3.6667E+02	5.1062E+00	4.6175E-02	5.0000E-09	3.2969E-01
cp22.dat	3.6667E+02	1.0132E+01	3.4040E-02	5.0000E-09	1.2959E-01
cp23.dat	3.6667E+02	1.5242E+01	3.5020E-02	5.0000E-09	9.9915E-02
cp24.dat	3.6667E+02	2.0342E+01	5.7679E-02	5.0000E-09	1.6787E-01
cp28.dat	3.9444E+02	1.0132E+01	1.2017E-02	5.0000E-09	2.4156E-01
cp29.dat	3.9444E+02	1.5242E+01	1.4485E-02	5.0000E-09	2.0209E-01
cp30.dat	3.9444E+02	2.0342E+01	1.6237E-02	5.0000E-09	1.7232E-01
cp34.dat	4.2222E+02	1.0132E+01	5.6320E-03	5.0000E-09	2.3484E-01
cp35.dat	4.2222E+02	1.5242E+01	5.4121E-03	5.0000E-09	2.9816E-01
cp36.dat	4.2222E+02	2.0342E+01	5.7573E-03	5.0000E-09	1.8792E-01


90-715 Hatcol 3110
Viscosity Model Type 2
298K
311K
273K
372K
492K
TREF 3.0000E+02
MU 3.4490E-02
ALFA 9.3260E-09
BETA 2.8253E+03
GAMA 3.9378E-06
VISCOSITY (Pa.S)
PRESSURE (GPa)
0.00
0.40
0.80
1.20
1.60
2.00

CP 90-715 ~300 Hatcol 3110

NEWTONIAN MODEL TYPE 1 cp2.dat

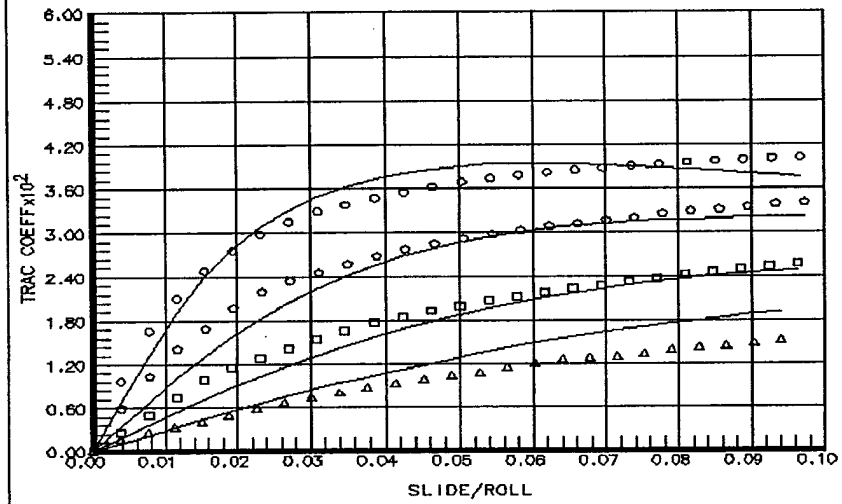
					XMU*	ALFA*	BETA*
△	830MPA	160N	2.51M/S	300K # 13	9.205E-01	5.000E-09	4.347E-01
□	996MPA	276N	2.51M/S	300K # 14	9.205E-01	5.000E-09	4.347E-01
○	1162MPA	440N	2.51M/S	300K # 16	9.205E-01	5.000E-09	4.347E-01
○	1328MPA	654N	2.51M/S	300K # 18	9.205E-01	5.000E-09	4.347E-01



CP 90-715 ~300 Hatcol 3110

NEWTONIAN MODEL TYPE 1 cp3.dat

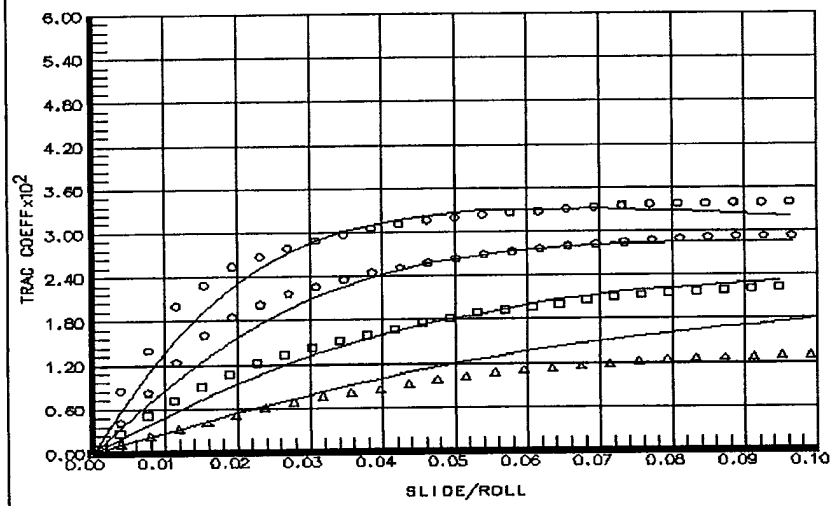
					XMU*	ALFA*	BETA*
△	830MPA	160N	5.11M/S	300K # 21	6.753E-01	5.000E-09	1.373E-01
□	997MPA	276N	5.11M/S	300K # 22	6.753E-01	5.000E-09	1.373E-01
○	1162MPA	440N	5.11M/S	300K # 23	6.753E-01	5.000E-09	1.373E-01
○	1328MPA	654N	5.11M/S	300K # 29	6.753E-01	5.000E-09	1.373E-01



CP 90-715 ~300 Hatcol 3110

NEWTONIAN MODEL TYPE 1 cp4.dat

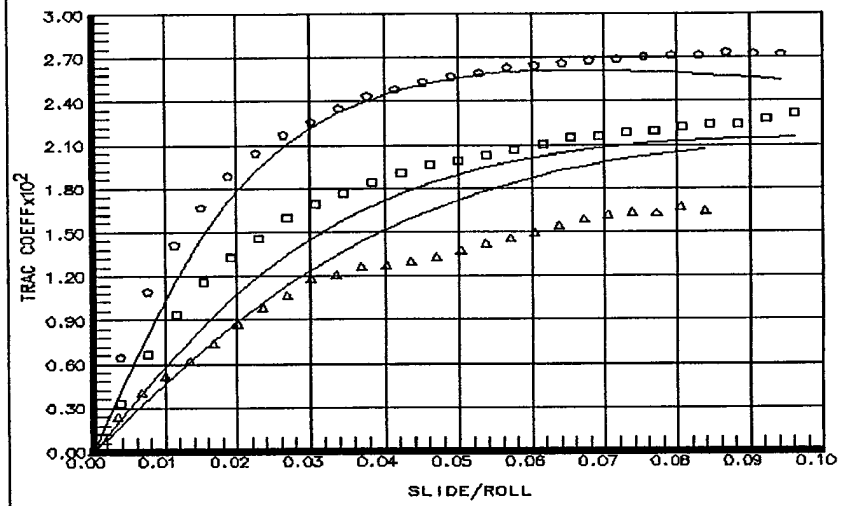
					XMU*	ALFA*	BETA*
△	831MPA	160N	10.13M/S	300K # 26	4.530E-01	5.000E-09	6.609E-02
□	996MPA	276N	10.13M/S	300K # 27	4.530E-01	5.000E-09	6.609E-02
○	1163MPA	440N	10.13M/S	300K # 28	4.530E-01	5.000E-09	6.609E-02
○	1328MPA	654N	10.13M/S	300K # 30	4.530E-01	5.000E-09	6.609E-02



CP 90-715 ~300 Hatcol 3110

NEWTONIAN MODEL TYPE 1 cp5.dat

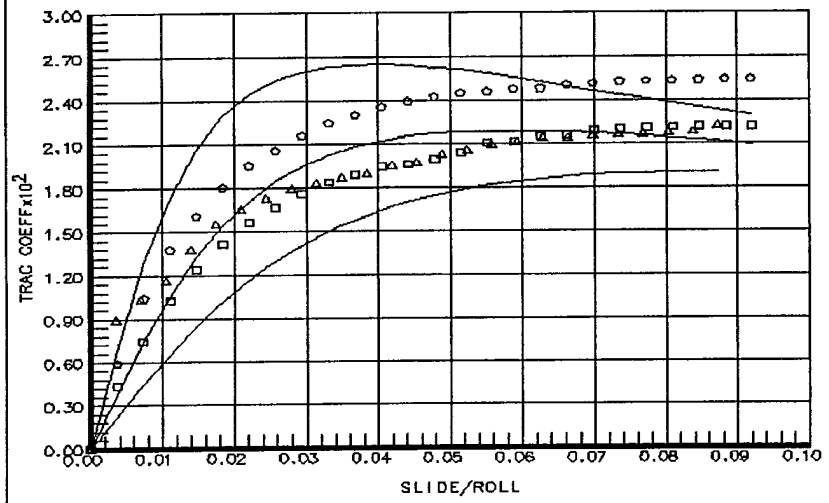
					XMU*	ALFA*	BETA*
△	830MPA	160N	15.24M/S	300K # 40	4.469E-01	5.000E-09	5.622E-02
□	996MPA	276N	15.24M/S	300K # 33	4.469E-01	5.000E-09	5.622E-02
○	1163MPA	440N	15.24M/S	300K # 34	4.469E-01	5.000E-09	5.622E-02



CP 90-715 ~300 Hatcol 3110

NEWTONIAN MODEL TYPE 1 cp6.dat

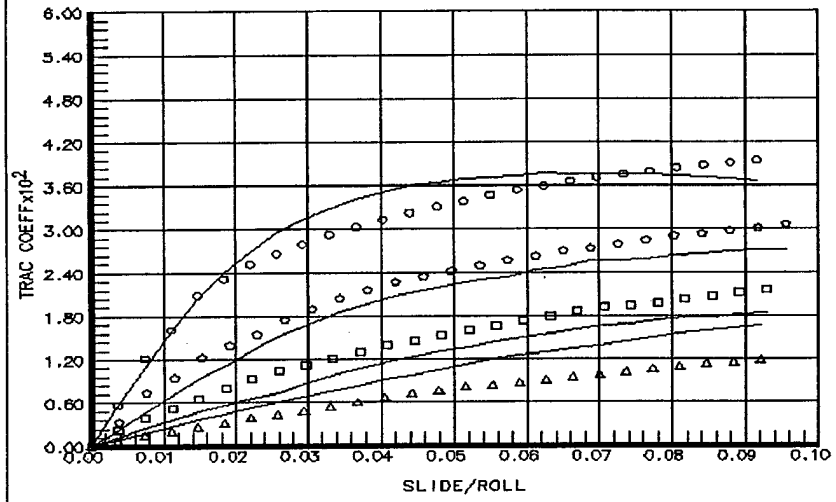
					XMU*	ALFA*	BETA*
△	830MPA	160N	20.34M/S	300K # 36	5.919E-01	5.000E-09	6.668E-02
□	997MPA	276N	20.34M/S	300K # 37	5.919E-01	5.000E-09	6.668E-02
○	1163MPA	440N	20.34M/S	300K # 38	5.919E-01	5.000E-09	6.668E-02



CP 90-715 ~300 Hatcol 3110

NEWTONIAN MODEL TYPE 1 cp8.dat

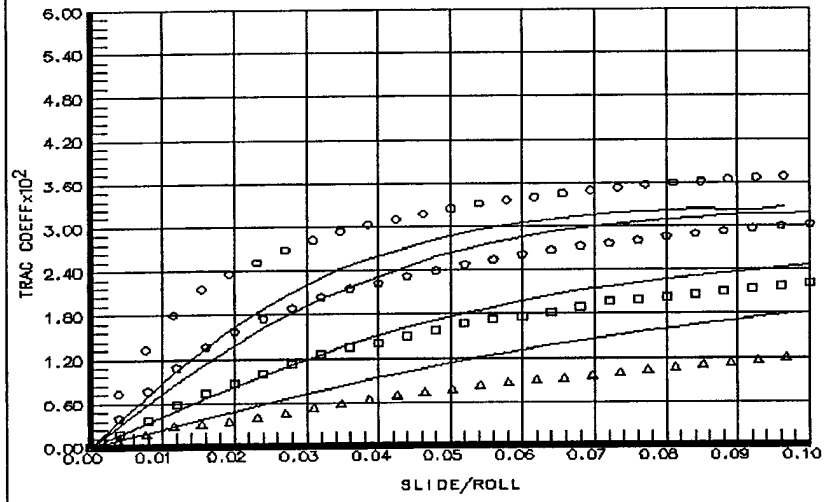
					XMU*	ALFA*	BETA*
△	830MPA	160N	2.51M/S	311K # 55	5.879E-01	5.000E-09	5.189E-01
□	996MPA	276N	2.51M/S	311K # 56	5.879E-01	5.000E-09	5.189E-01
○	1163MPA	440N	2.51M/S	311K # 57	5.879E-01	5.000E-09	5.189E-01
◇	1328MPA	654N	2.51M/S	311K # 60	5.879E-01	5.000E-09	5.189E-01



CP 90-715 ~300 Hatcol 3110

NEWTONIAN MODEL TYPE 1 cp9.dat

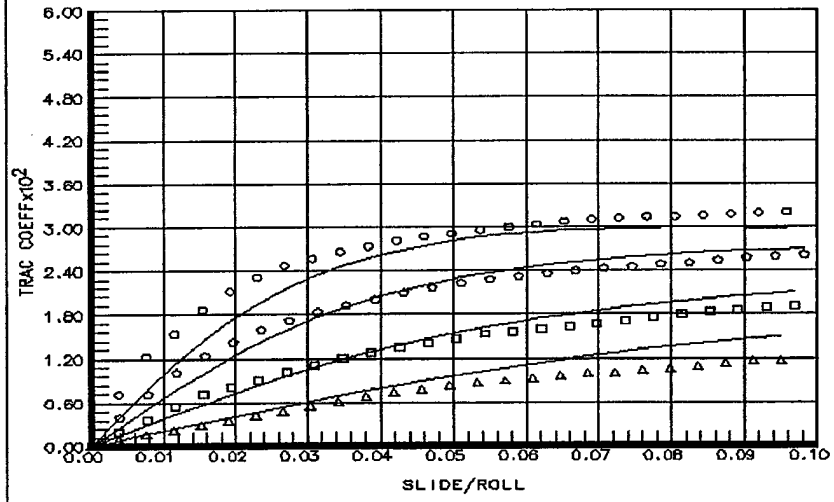
					XMU*	ALFA*	BETA*
△	830MPA	160N	5.11M/S	311K # 63	4.511E-01	5.000E-09	1.442E-01
□	996MPA	276N	5.11M/S	311K # 64	4.511E-01	5.000E-09	1.442E-01
○	1163MPA	440N	5.11M/S	311K # 65	4.511E-01	5.000E-09	1.442E-01
◇	1328MPA	654N	5.11M/S	311K # 71	4.511E-01	5.000E-09	1.442E-01



CP 90-715 ~300 Hatcol 3110

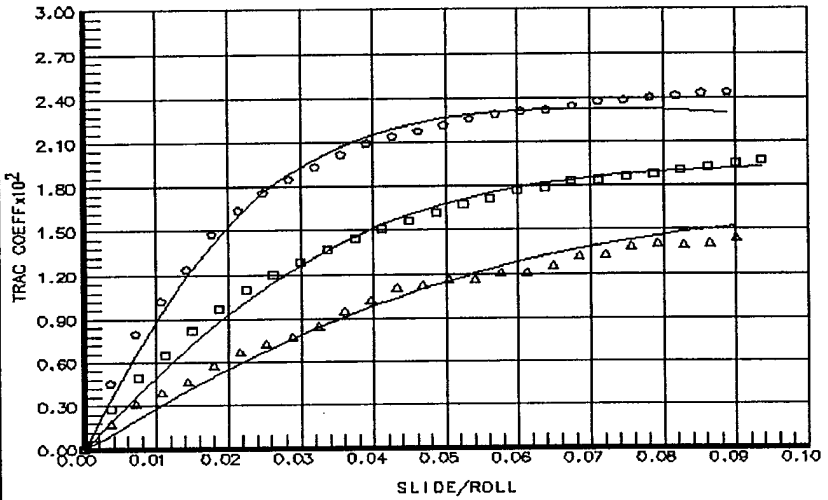
NEWTONIAN MODEL TYPE 1 cp10.dat

					XMU*	ALFA*	BETA*
△	830MPA	160N	10.13M/S	311K # 68	2.892E-01	5.000E-09	6.761E-02
□	997MPA	276N	10.13M/S	311K # 69	2.892E-01	5.000E-09	6.761E-02
○	1163MPA	440N	10.13M/S	311K # 70	2.892E-01	5.000E-09	6.761E-02
◇	1328MPA	654N	10.13M/S	311K # 72	2.892E-01	5.000E-09	6.761E-02



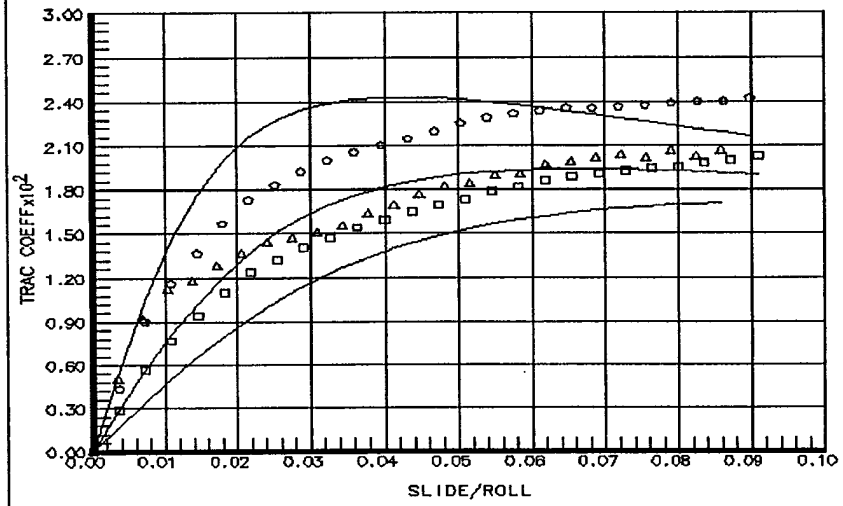
CP 90-715 ~300 Hatcol 3110
NEWTONIAN MODEL TYPE 1 op11.dat

				XMU*	ALFA*	BETA*
△	830MPA	160N	15.24M/S 311K # 86	3.226E-01	5.000E-09	7.020E-02
□	996MPA	276N	15.24M/S 311K # 76	3.226E-01	5.000E-09	7.020E-02
○	1163MPA	440N	15.24M/S 311K # 66	3.226E-01	5.000E-09	7.020E-02



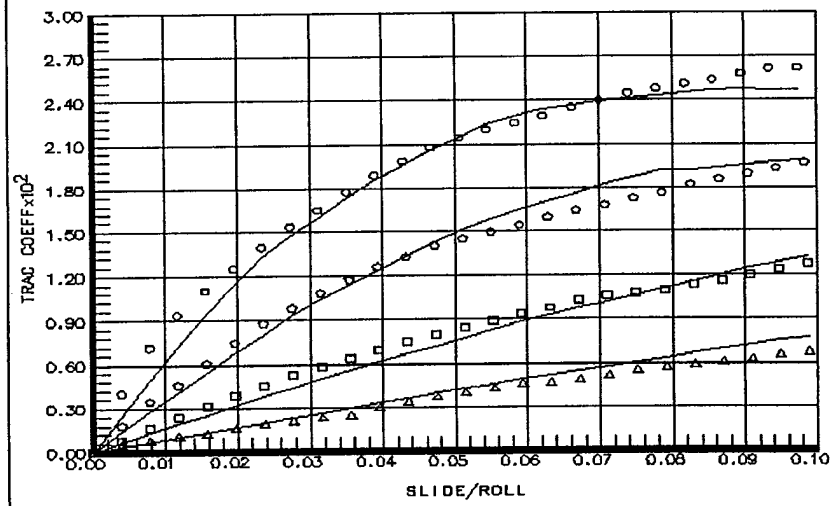
CP 90-715 ~300 Hatcol 3110
NEWTONIAN MODEL TYPE 1 op12.dat

				XMU*	ALFA*	BETA*
△	830MPA	160N	20.34M/S 311K # 78	4.184E-01	5.000E-09	7.339E-02
□	996MPA	276N	20.34M/S 311K # 98	4.184E-01	5.000E-09	7.339E-02
○	1163MPA	440N	20.34M/S 311K # 80	4.184E-01	5.000E-09	7.339E-02



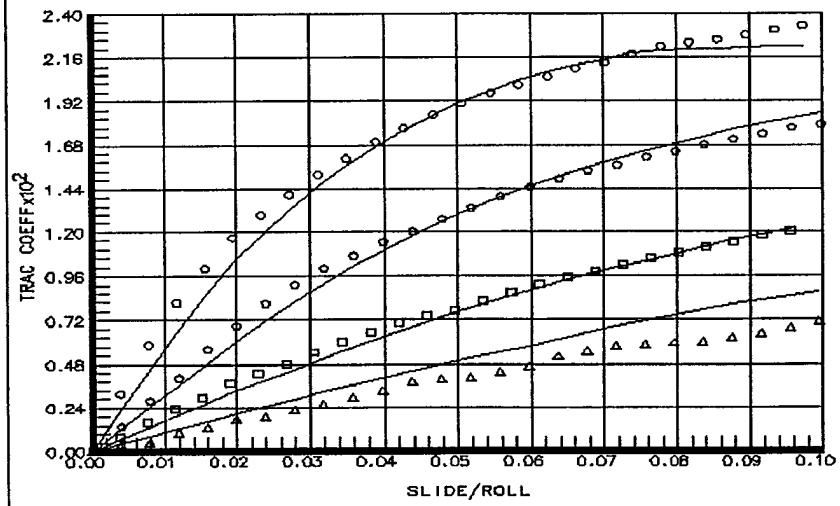
CP 90-715 ~300 Hatcol 3110
NEWTONIAN MODEL TYPE 1 op15.dat

				XMU*	ALFA*	BETA*
△	830MPA	160N	5.11M/S 339K #113	1.135E-01	5.000E-09	1.693E-01
□	996MPA	276N	5.11M/S 339K #114	1.135E-01	5.000E-09	1.693E-01
○	1163MPA	440N	5.11M/S 339K #115	1.135E-01	5.000E-09	1.693E-01
◇	1328MPA	654N	5.11M/S 339K #120	1.135E-01	5.000E-09	1.693E-01



CP 90-715 ~300 Hatcol 3110
NEWTONIAN MODEL TYPE 1 op16.dat

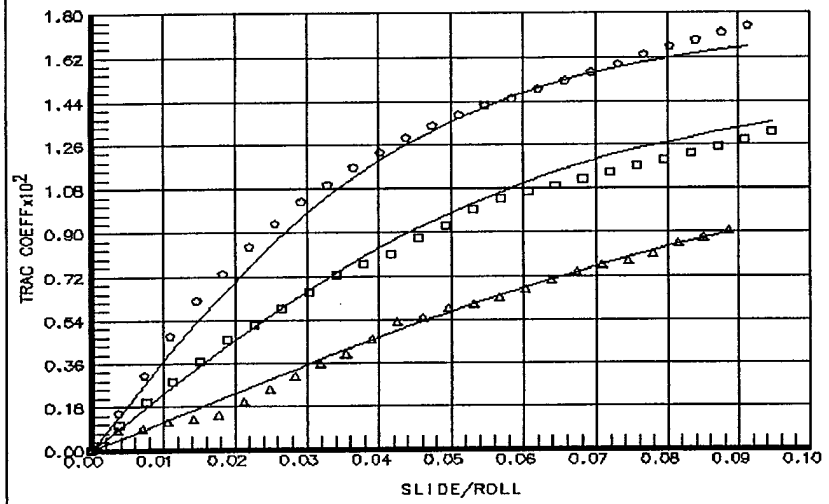
				XMU*	ALFA*	BETA*
△	830MPA	160N	10.13M/S 339K #117	9.096E-02	5.000E-09	9.448E-02
□	996MPA	276N	10.13M/S 339K #118	9.096E-02	5.000E-09	9.448E-02
○	1163MPA	440N	10.13M/S 339K #119	9.096E-02	5.000E-09	9.448E-02
◇	1328MPA	654N	10.13M/S 339K #121	9.096E-02	5.000E-09	9.448E-02



CP 90-715 ~300 Hatcol 3110

NEWTONIAN MODEL TYPE 1 op17.dat

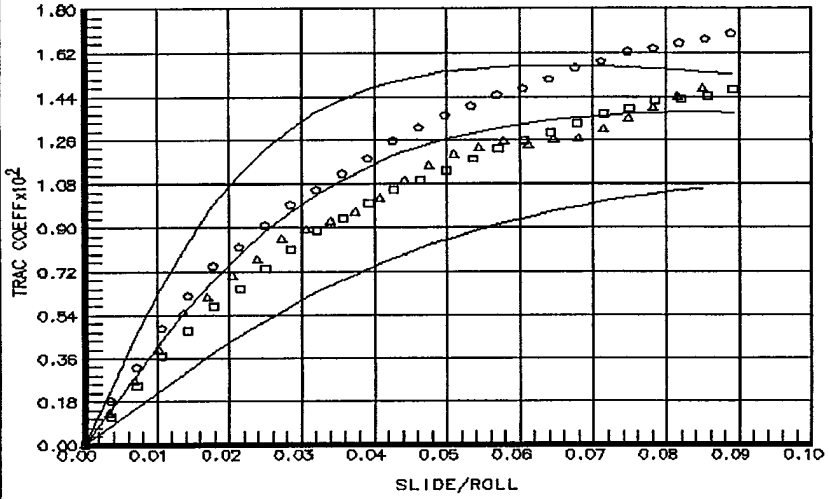
					XMU*	ALFA*	BETA*
△	830MPA	160N	15.24M/S	339K #123	9.207E-02	5.000E-09	7.648E-02
□	996MPA	276N	15.24M/S	339K #124	9.207E-02	5.000E-09	7.648E-02
○	1163MPA	440N	15.24M/S	339K #125	9.207E-02	5.000E-09	7.648E-02



CP 90-715 ~300 Hatcol 3110

NEWTONIAN MODEL TYPE 1 op18.dat

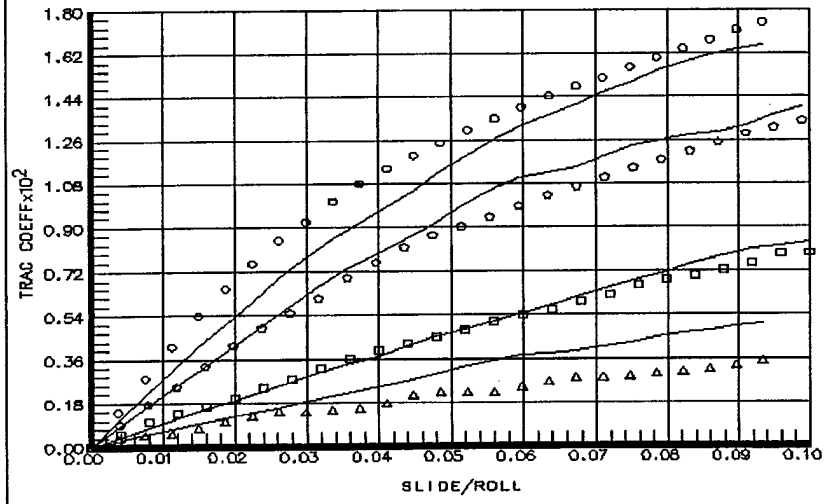
					XMU*	ALFA*	BETA*
△	830MPA	160N	20.34M/S	339K #127	1.407E-01	5.000E-09	1.035E-01
□	996MPA	276N	20.34M/S	339K #128	1.407E-01	5.000E-09	1.035E-01
○	1163MPA	440N	20.34M/S	339K #129	1.407E-01	5.000E-09	1.035E-01



CP 90-715 ~300 Hatcol 3110

NEWTONIAN MODEL TYPE 1 op21.dat

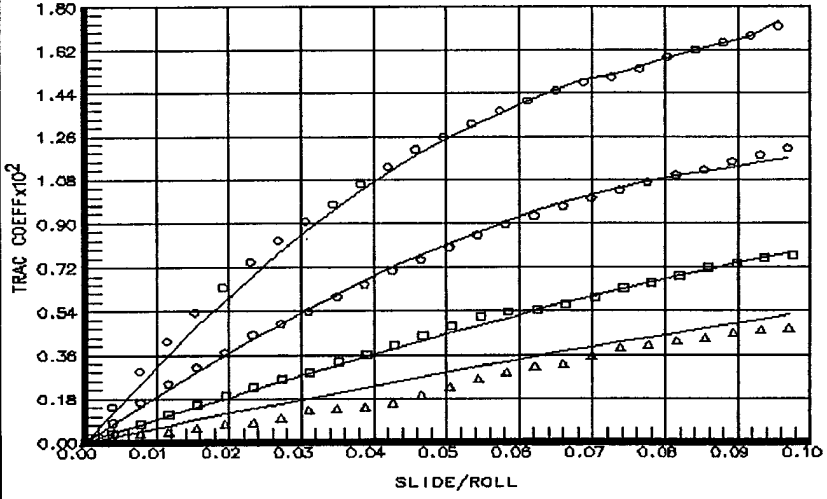
					XMU*	ALFA*	BETA*
△	830MPA	160N	5.11M/S	367K #146	4.617E-02	5.000E-09	3.297E-01
□	996MPA	276N	5.11M/S	367K #147	4.617E-02	5.000E-09	3.297E-01
○	1163MPA	440N	5.11M/S	367K #148	4.617E-02	5.000E-09	3.297E-01
◇	1328MPA	654N	5.11M/S	367K #153	4.617E-02	5.000E-09	3.297E-01



CP 90-715 ~300 Hatcol 3110

NEWTONIAN MODEL TYPE 1 op22.dat

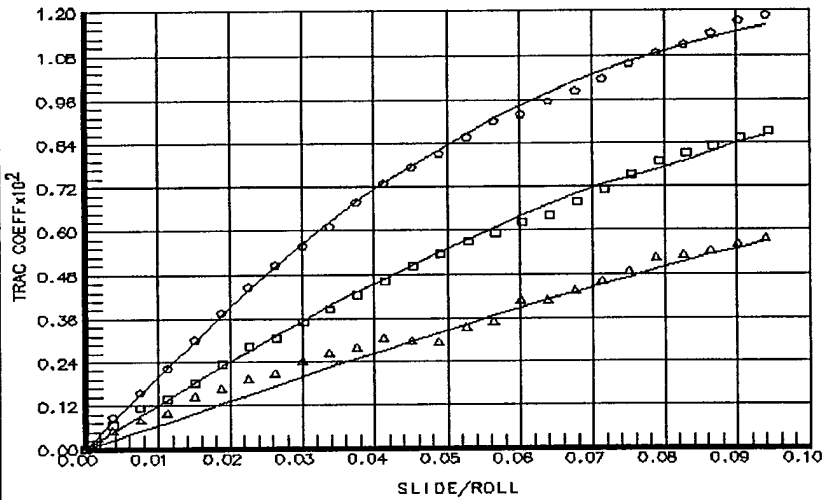
					XMU*	ALFA*	BETA*
△	830MPA	160N	10.13M/S	367K #150	3.404E-02	5.000E-09	1.296E-01
□	996MPA	276N	10.13M/S	367K #151	3.404E-02	5.000E-09	1.296E-01
○	1162MPA	440N	10.13M/S	367K #152	3.404E-02	5.000E-09	1.296E-01
◇	1328MPA	654N	10.13M/S	367K #154	3.404E-02	5.000E-09	1.296E-01



CP 90-715 ~300 Hatcol 3110

NEWTONIAN MODEL TYPE 1 op23.dat

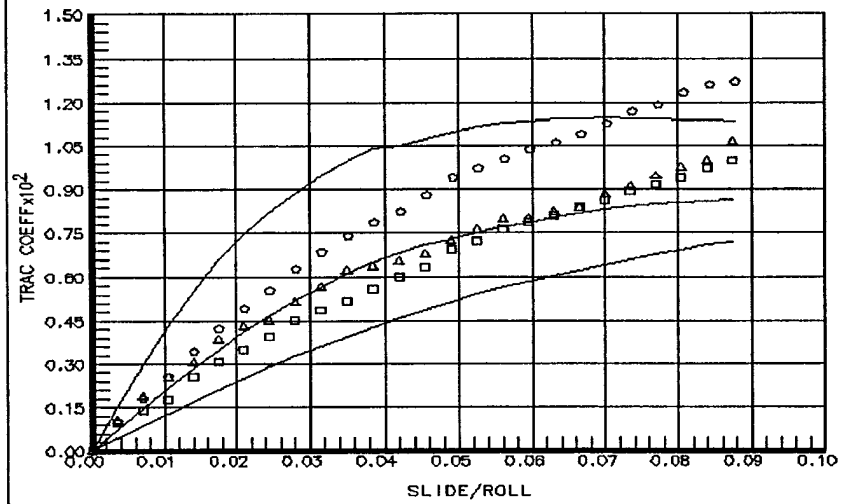
				XMU*	ALFA*	BETA*
△	830MPA	160N	15.24M/S 367K #156	3.502E-02	5.000E-09	9.991E-02
□	996MPA	276N	15.24M/S 367K #157	3.502E-02	5.000E-09	9.991E-02
○	1163MPA	440N	15.24M/S 367K #158	3.502E-02	5.000E-09	9.991E-02



CP 90-715 ~300 Hatcol 3110

NEWTONIAN MODEL TYPE 1 op24.dat

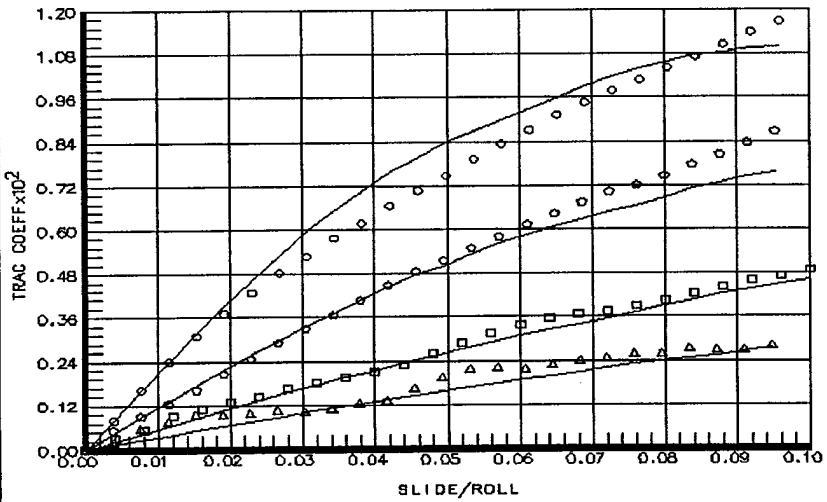
				XMU*	ALFA*	BETA*
△	830MPA	160N	20.34M/S 367K #160	5.768E-02	5.000E-09	1.679E-01
□	996MPA	276N	20.34M/S 367K #161	5.768E-02	5.000E-09	1.679E-01
○	1162MPA	440N	20.34M/S 367K #162	5.768E-02	5.000E-09	1.679E-01



CP 90-715 ~300 Hatcol 3110

NEWTONIAN MODEL TYPE 1 op28.dat

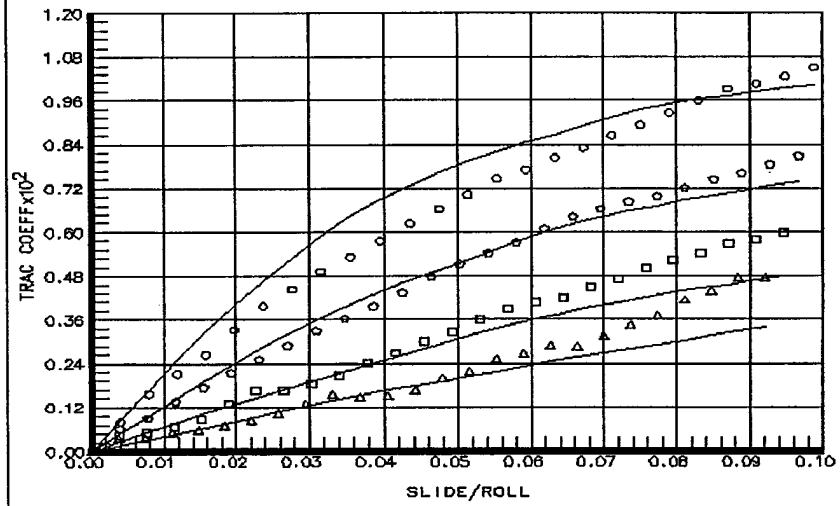
				XMU*	ALFA*	BETA*
△	830MPA	160N	10.13M/S 394K #184	1.202E-02	5.000E-09	2.416E-01
□	996MPA	276N	10.13M/S 394K #185	1.202E-02	5.000E-09	2.416E-01
○	1163MPA	440N	10.13M/S 394K #186	1.202E-02	5.000E-09	2.416E-01
◇	1328MPA	654N	10.13M/S 394K #187	1.202E-02	5.000E-09	2.416E-01



CP 90-715 ~300 Hatcol 3110

NEWTONIAN MODEL TYPE 1 op29.dat

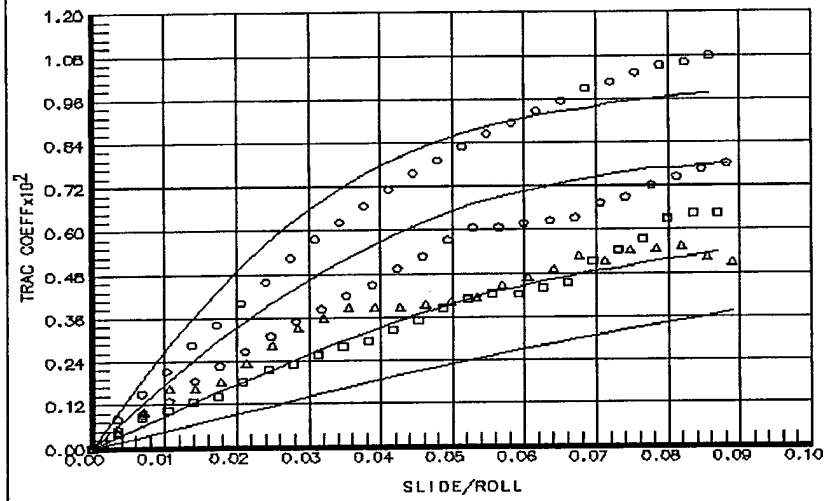
				XMU*	ALFA*	BETA*
△	830MPA	160N	15.24M/S 394K #189	1.449E-02	5.000E-09	2.021E-01
□	996MPA	276N	15.24M/S 394K #190	1.449E-02	5.000E-09	2.021E-01
○	1163MPA	440N	15.24M/S 394K #191	1.449E-02	5.000E-09	2.021E-01
◇	1328MPA	654N	15.24M/S 394K #192	1.449E-02	5.000E-09	2.021E-01



CP 90-715 ~300 Hatcol 3110

NEWTONIAN MODEL TYPE 1 op30.dat

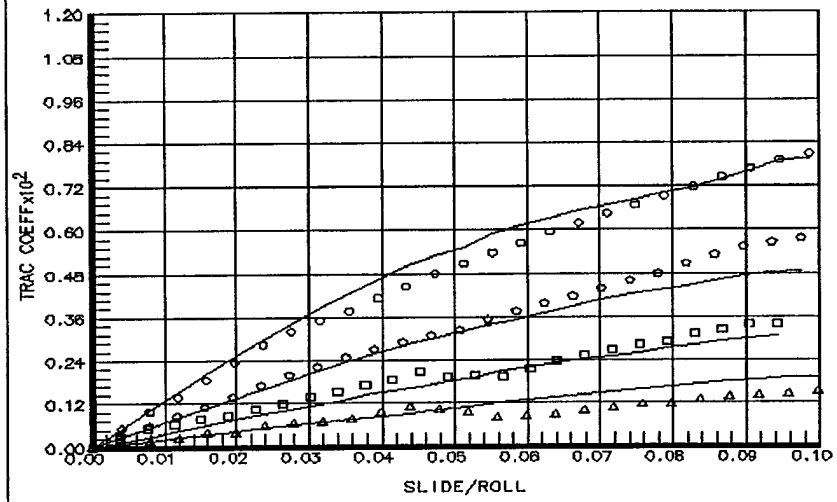
					XMU*	ALFA*	BETA*
△	830MPA	160N	20.34M/S	394K #194	1.624E-02	5.000E-09	1.723E-01
□	996MPA	276N	20.34M/S	394K #195	1.624E-02	5.000E-09	1.723E-01
○	1163MPA	440N	20.34M/S	394K #196	1.624E-02	5.000E-09	1.723E-01
○	1328MPA	654N	20.34M/S	394K #197	1.624E-02	5.000E-09	1.723E-01



CP 90-715 ~300 Hatcol 3110

NEWTONIAN MODEL TYPE 1 op34.dat

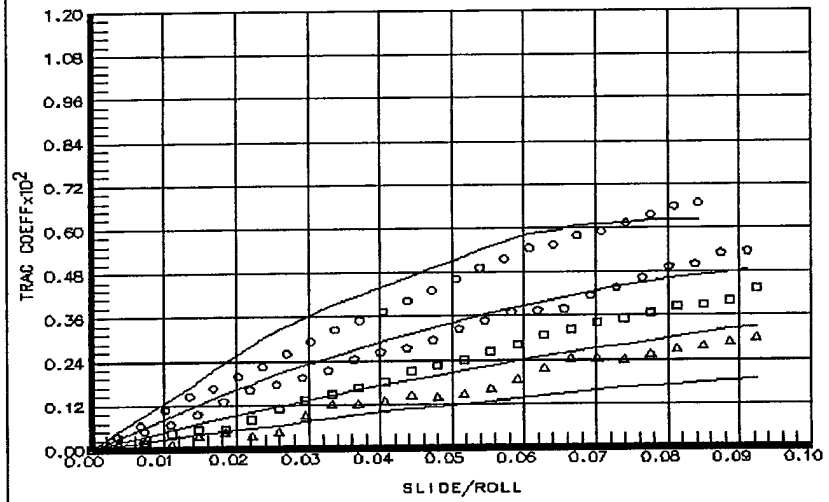
					XMU*	ALFA*	BETA*
△	830MPA	160N	10.13M/S	422K #219	5.632E-03	5.000E-09	2.348E-01
□	996MPA	276N	10.13M/S	422K #220	5.632E-03	5.000E-09	2.348E-01
○	1163MPA	440N	10.13M/S	422K #221	5.632E-03	5.000E-09	2.348E-01
○	1328MPA	654N	10.13M/S	422K #222	5.632E-03	5.000E-09	2.348E-01



CP 90-715 ~300 Hatcol 3110

NEWTONIAN MODEL TYPE 1 op35.dat

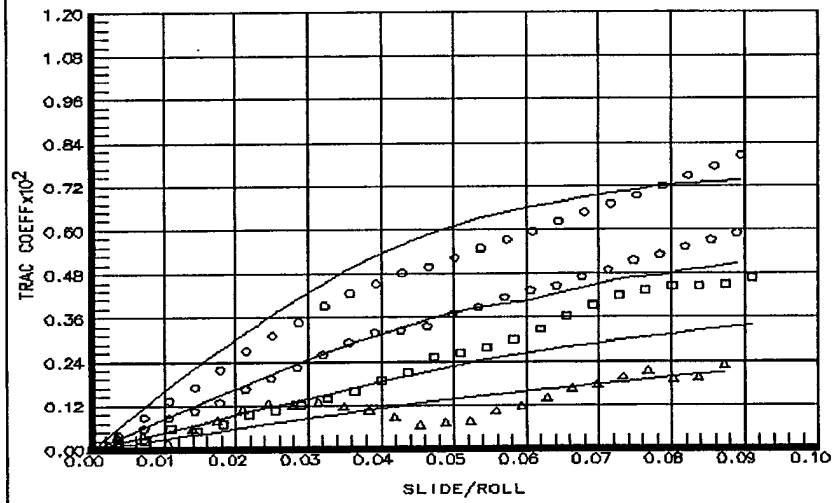
					XMU*	ALFA*	BETA*
△	830MPA	160N	15.24M/S	422K #224	5.412E-03	5.000E-09	2.982E-01
□	996MPA	276N	15.24M/S	422K #225	5.412E-03	5.000E-09	2.982E-01
○	1163MPA	440N	15.24M/S	422K #226	5.412E-03	5.000E-09	2.982E-01
○	1328MPA	654N	15.24M/S	422K #227	5.412E-03	5.000E-09	2.982E-01



CP 90-715 ~300 Hatcol 3110

NEWTONIAN MODEL TYPE 1 op36.dat

					XMU*	ALFA*	BETA*
△	830MPA	160N	20.34M/S	422K #229	5.757E-03	5.000E-09	1.879E-01
□	997MPA	276N	20.34M/S	422K #230	5.757E-03	5.000E-09	1.879E-01
○	1163MPA	440N	20.34M/S	422K #231	5.757E-03	5.000E-09	1.879E-01
○	1328MPA	654N	20.34M/S	422K #232	5.757E-03	5.000E-09	1.879E-01



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13. Traction Data Set L: 91-119 Pennzane

Data set name: BP 91-119 Pennzane
Rolling radii [Disks 1 & 2] (in): 0.75 0.75
Crown radii [Disks 1 & 2] (in): 15.00 13.00

Number of data sets found = 156

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
1	80.00	20.52	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	6.37E-06	bp80h #1
2	80.00	71.64	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	6.29E-06	bp80h #2
3	80.00	171.75	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	1.03E-05	bp80h #3
4	80.00	20.52	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	3.55E-05	bp80h #4
5	80.00	71.64	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	8.62E-06	bp80h #5
6	80.00	171.75	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	7.46E-06	bp80h #6
7	80.00	20.52	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	1.37E-05	bp80h #7
8	80.00	71.64	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	3.78E-06	bp80h #8
9	80.00	171.75	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	8.60E-06	bp80h #9
10	80.00	1.35	68.00	84.00	76.00	100	0.71	1.49	1.00	1.00	1.00	5.38E-03	bp80l #1
11	80.00	3.48	68.00	84.00	76.00	100	0.71	1.49	1.00	1.00	1.00	4.31E-04	bp80l #2
12	80.00	8.45	68.00	84.00	76.00	100	0.71	1.49	1.00	1.00	1.00	3.92E-04	bp80l #3
13	80.00	20.52	68.00	84.00	76.00	100	0.71	1.49	1.00	1.00	1.00	7.75E-05	bp80l #4
14	80.00	71.64	68.00	84.00	76.00	100	0.71	1.49	1.00	1.00	1.00	8.04E-04	bp80l #5
15	80.00	171.75	68.00	84.00	76.00	100	0.71	1.49	1.00	1.00	1.00	2.18E-03	bp80l #6
16	80.00	1.35	137.00	167.00	152.00	100	0.71	1.49	1.00	1.00	1.00	2.26E-03	bp80l #7
17	80.00	3.48	137.00	167.00	152.00	100	0.71	1.49	1.00	1.00	1.00	2.15E-04	bp80l #8
18	80.00	8.45	137.00	167.00	152.00	100	0.71	1.49	1.00	1.00	1.00	1.13E-03	bp80l #9
19	80.00	20.52	137.00	167.00	152.00	100	0.71	1.49	1.00	1.00	1.00	1.73E-04	bp80l #10
20	80.00	71.64	137.00	167.00	152.00	100	0.71	1.49	1.00	1.00	1.00	4.98E-04	bp80l #11
21	80.00	171.75	137.00	167.00	152.00	100	0.71	1.49	1.00	1.00	1.00	1.15E-03	bp80l #12
22	80.00	1.35	318.00	368.00	343.00	100	0.71	1.49	1.00	1.00	1.00	4.60E-04	bp80l #13
23	80.00	3.48	318.00	368.00	343.00	100	0.71	1.49	1.00	1.00	1.00	8.64E-05	bp80l #14
24	80.00	8.45	318.00	368.00	343.00	100	0.71	1.49	1.00	1.00	1.00	1.73E-04	bp80l #15
25	80.00	20.52	318.00	368.00	343.00	100	0.71	1.49	1.00	1.00	1.00	1.77E-05	bp80l #16
26	80.00	71.64	318.00	368.00	343.00	100	0.71	1.49	1.00	1.00	1.00	7.44E-05	bp80l #17
27	80.00	171.75	318.00	368.00	343.00	100	0.71	1.49	1.00	1.00	1.00	2.15E-04	bp80l #18
28	80.00	1.35	1208.00	1388.00	1298.00	100	0.71	1.49	1.00	1.00	1.00	1.08E-04	bp80l #19
29	80.00	3.48	1208.00	1388.00	1298.00	100	0.71	1.49	1.00	1.00	1.00	2.66E-05	bp80l #20
30	80.00	8.45	1208.00	1388.00	1298.00	100	0.71	1.49	1.00	1.00	1.00	2.69E-05	bp80l #21
31	80.00	20.52	1208.00	1388.00	1298.00	100	0.71	1.49	1.00	1.00	1.00	4.68E-06	bp80l #22
32	80.00	71.64	1208.00	1388.00	1298.00	100	0.71	1.49	1.00	1.00	1.00	1.02E-05	bp80l #23
33	80.00	171.75	1208.00	1388.00	1298.00	100	0.71	1.49	1.00	1.00	1.00	1.78E-05	bp80l #24
34	80.00	20.52	2429.00	2689.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	4.70E-06	bp80lx #1
35	80.00	71.64	2429.00	2689.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	4.18E-06	bp80lx #2
36	80.00	171.75	2429.00	2689.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	6.81E-06	bp80lx #3
37	100.00	20.52	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	2.38E-05	bp100h #1
38	100.00	71.64	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	6.16E-06	bp100h #2
39	100.00	171.75	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	3.11E-05	bp100h #3
40	100.00	20.52	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	1.10E-05	bp100h #4
41	100.00	71.64	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	5.62E-06	bp100h #5
42	100.00	171.75	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	3.29E-05	bp100h #6
43	100.00	20.52	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	1.00E-05	bp100h #7
44	100.00	71.64	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	3.48E-06	bp100h #8
45	100.00	171.75	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	2.48E-06	bp100h #9
46	100.00	20.52	68.00	84.00	76.00	100	0.71	1.49	1.00	1.00	1.00	2.18E-04	bp100l #1
47	100.00	71.64	68.00	84.00	76.00	100	0.71	1.49	1.00	1.00	1.00	7.16E-04	bp100l #2
48	100.00	171.75	68.00	84.00	76.00	100	0.71	1.49	1.00	1.00	1.00	4.59E-03	bp100l #3
49	100.00	20.52	137.00	167.00	152.00	100	0.71	1.49	1.00	1.00	1.00	3.86E-05	bp100l #4
50	100.00	71.64	137.00	167.00	152.00	100	0.71	1.49	1.00	1.00	1.00	2.13E-04	bp100l #5

Data set: BP 91-119 Pennzane ....continued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
51	100.00	171.75	137.00	167.00	152.00	100	0.71	1.49	1.00	1.00	1.00	1.03E-04	bp100l #6
52	100.00	20.52	318.00	368.00	343.00	100	0.71	1.49	1.00	1.00	1.00	1.95E-05	bp100l #7
53	100.00	71.64	318.00	368.00	343.00	100	0.71	1.49	1.00	1.00	1.00	6.81E-05	bp100l #8
54	100.00	171.75	318.00	368.00	343.00	100	0.71	1.49	1.00	1.00	1.00	1.65E-04	bp100l #9
55	100.00	20.52	1208.00	1388.00	1298.00	100	0.71	1.49	1.00	1.00	1.00	4.98E-06	bp100l #10
56	100.00	71.64	1208.00	1388.00	1298.00	100	0.71	1.49	1.00	1.00	1.00	2.45E-05	bp100l #11
57	100.00	171.75	1208.00	1388.00	1298.00	100	0.71	1.49	1.00	1.00	1.00	7.28E-06	bp100l #12
58	100.00	20.52	2429.00	2689.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	1.41E-05	bp100l #13
59	100.00	71.64	2429.00	2689.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	2.79E-06	bp100l #14
60	100.00	171.75	2429.00	2689.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	9.98E-06	bp100l #15
61	150.00	20.52	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	3.00E-06	bp150h #1
62	150.00	71.64	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	6.91E-06	bp150h #2
63	150.00	171.75	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	2.01E-06	bp150h #3
64	150.00	20.52	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	2.37E-06	bp150h #4
65	150.00	71.64	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	1.78E-05	bp150h #5
66	150.00	171.75	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	4.39E-06	bp150h #6
67	150.00	20.52	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	4.01E-06	bp150h #7
68	150.00	71.64	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	5.18E-06	bp150h #8
69	150.00	171.75	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	3.71E-06	bp150h #9
70	150.00	20.52	68.00	84.00	76.00	100	0.71	1.49	1.00	1.00	1.00	4.27E-04	bp150l #1
71	150.00	71.64	68.00	84.00	76.00	100	0.71	1.49	1.00	1.00	1.00	2.45E-04	bp150l #2
72	150.00	171.75	68.00	84.00	76.00	100	0.71	1.49	1.00	1.00	1.00	2.49E-03	bp150l #3
73	150.00	20.52	137.00	167.00	152.00	100	0.71	1.49	1.00	1.00	1.00	1.35E-04	bp150l #4
74	150.00	71.64	137.00	167.00	152.00	100	0.71	1.49	1.00	1.00	1.00	7.23E-05	bp150l #5
75	150.00	171.75	137.00	167.00	152.00	100	0.71	1.49	1.00	1.00	1.00	6.30E-05	bp150l #6
76	150.00	20.52	318.00	368.00	343.00	100	0.71	1.49	1.00	1.00	1.00	1.82E-05	bp150l #7
77	150.00	71.64	318.00	368.00	343.00	100	0.71	1.49	1.00	1.00	1.00	1.94E-05	bp150l #8
78	150.00	171.75	318.00	368.00	343.00	100	0.71	1.49	1.00	1.00	1.00	4.40E-05	bp150l #9
79	150.00	20.52	1208.00	1388.00	1298.00	100	0.71	1.49	1.00	1.00	1.00	3.57E-06	bp150l #10
80	150.00	71.64	1208.00	1388.00	1298.00	100	0.71	1.49	1.00	1.00	1.00	2.35E-05	bp150l #11
81	150.00	171.75	1208.00	1388.00	1298.00	100	0.71	1.49	1.00	1.00	1.00	1.40E-05	bp150l #12
82	150.00	20.52	2429.00	2689.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	1.88E-05	bp150l #13
83	150.00	71.64	2429.00	2689.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	1.02E-05	bp150l #14
84	150.00	171.75	2429.00	2689.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	3.41E-06	bp150l #15
85	200.00	20.52	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	1.89E-05	bp200h #1
86	200.00	71.64	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	9.24E-07	bp200h #2
87	200.00	171.75	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	1.07E-05	bp200h #3
88	200.00	20.52	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	9.90E-06	bp200h #4
89	200.00	71.64	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	1.58E-06	bp200h #5
90	200.00	171.75	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	1.98E-06	bp200h #6
91	200.00	20.52	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	1.27E-04	bp200h #7
92	200.00	71.64	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	5.68E-07	bp200h #8
93	200.00	171.75	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	1.17E-06	bp200h #9
94	200.00	20.52	68.00	84.00	76.00	100	0.71	1.49	1.00	1.00	1.00	8.27E-05	bp200l #1
95	200.00	71.64	68.00	84.00	76.00	100	0.71	1.49	1.00	1.00	1.00	1.96E-04	bp200l #2
96	200.00	171.75	68.00	84.00	76.00	100	0.71	1.49	1.00	1.00	1.00	2.13E-04	bp200l #3
97	200.00	20.52	137.00	167.00	152.00	100	0.71	1.49	1.00	1.00	1.00	3.11E-05	bp200l #4
98	200.00	71.64	137.00	167.00	152.00	100	0.71	1.49	1.00	1.00	1.00	1.61E-04	bp200l #5
99	200.00	171.75	137.00	167.00	152.00	100	0.71	1.49	1.00	1.00	1.00	2.37E-04	bp200l #6
100	200.00	20.52	318.00	368.00	343.00	100	0.71	1.49	1.00	1.00	1.00	2.24E-06	bp200l #7
101	200.00	71.64	318.00	368.00	343.00	100	0.71	1.49	1.00	1.00	1.00	6.45E-06	bp200l #8
102	200.00	171.75	318.00	368.00	343.00	100	0.71	1.49	1.00	1.00	1.00	6.90E-05	bp200l #9
103	200.00	20.52	1208.00	1388.00	1298.00	100	0.71	1.49	1.00	1.00	1.00	1.51E-05	bp200l #10
104	200.00	71.64	1208.00	1388.00	1298.00	100	0.71	1.49	1.00	1.00	1.00	3.08E-06	bp200l #11
105	200.00	171.75	1208.00	1388.00	1298.00	100	0.71	1.49	1.00	1.00	1.00	5.07E-06	bp200l #12
106	200.00	20.52	2429.00	2689.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	3.99E-06	bp200l #13
107	200.00	71.64	2429.00	2689.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	8.92E-06	bp200l #14
108	200.00	171.75	2429.00	2689.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	1.42E-05	bp200l #15
109	250.00	20.52	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	7.18E-06	bp250h #1
110	250.00	71.64	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	2.28E-07	bp250h #2
111	250.00	171.75	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	2.32E-06	bp250h #3
112	250.00	20.52	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	1.18E-05	bp250h #4
113	250.00	71.64	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	4.90E-07	bp250h #5
114	250.00	171.75	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	2.85E-06	bp250h #6
115	250.00	20.52	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	3.21E-06	bp250h #7
116	250.00	71.64	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	6.25E-07	bp250h #8
117	250.00	171.75	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	2.96E-06	bp250h #9
118	250.00	20.52	68.00	84.00	76.00	100	0.71	1.49	1.00	1.00	1.00	3.36E-04	bp250l #1
119	250.00	71.64	68.00	84.00	76.00	100	0.71	1.49	1.00	1.00	1.00	1.72E-04	bp250l #2
120	250.00	171.75	68.00	84.00	76.00	100	0.71	1.49	1.00	1.00	1.00	3.77E-04	bp250l #3

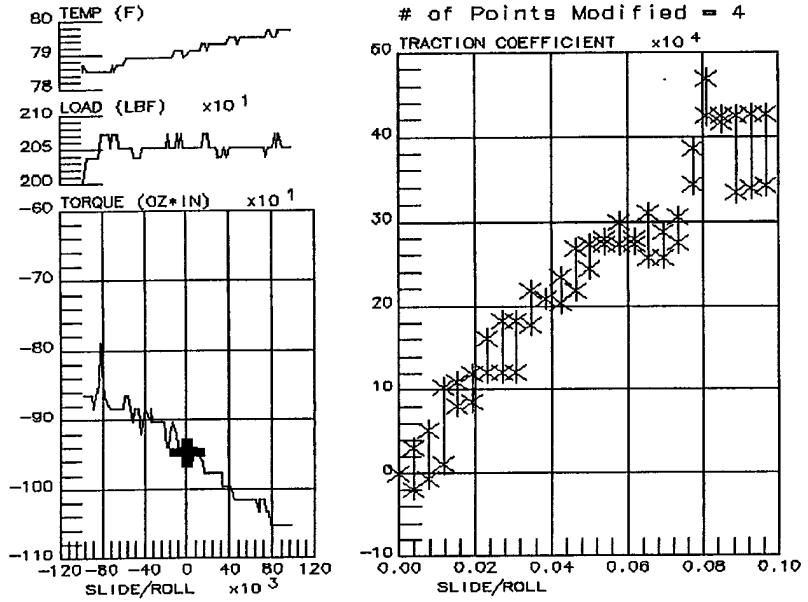
Data set: BP 91-119 Pennzane ....continued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
121	250.00	20.52	137.00	167.00	152.00	100	0.71	1.49	1.00	1.00	1.00	1.03E-05	bp250l #4
122	250.00	71.64	137.00	167.00	152.00	100	0.71	1.49	1.00	1.00	1.00	4.47E-05	bp250l #5
123	250.00	171.75	137.00	167.00	152.00	100	0.71	1.49	1.00	1.00	1.00	9.83E-05	bp250l #6
124	250.00	20.52	318.00	368.00	343.00	100	0.71	1.49	1.00	1.00	1.00	2.72E-06	bp250l #7
125	250.00	71.64	318.00	368.00	343.00	100	0.71	1.49	1.00	1.00	1.00	5.08E-06	bp250l #8
126	250.00	171.75	318.00	368.00	343.00	100	0.71	1.49	1.00	1.00	1.00	2.36E-05	bp250l #9
127	250.00	20.52	1208.00	1388.00	1298.00	100	0.71	1.49	1.00	1.00	1.00	1.33E-05	bp250l #10
128	250.00	71.64	1208.00	1388.00	1298.00	100	0.71	1.49	1.00	1.00	1.00	1.63E-06	bp250l #11
129	250.00	171.75	1208.00	1388.00	1298.00	100	0.71	1.49	1.00	1.00	1.00	9.71E-07	bp250l #12
130	250.00	20.52	2429.00	2689.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	2.99E-06	bp250l #13
131	250.00	71.64	2429.00	2689.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	5.16E-07	bp250l #14
132	250.00	171.75	2429.00	2689.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	1.24E-06	bp250l #15
133	300.00	20.52	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	9.61E-06	bp300h #1
134	300.00	71.64	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	1.71E-07	bp300h #2
135	300.00	171.75	4830.00	5330.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	1.44E-07	bp300h #3
136	300.00	20.52	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	4.21E-06	bp300h #4
137	300.00	71.64	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	4.28E-07	bp300h #5
138	300.00	171.75	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	8.75E-07	bp300h #6
139	300.00	20.52	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	5.76E-06	bp300h #7
140	300.00	71.64	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	4.83E-07	bp300h #8
141	300.00	171.75	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	4.81E-07	bp300h #9
142	300.00	20.52	68.00	84.00	76.00	100	0.71	1.49	1.00	1.00	1.00	2.34E-04	bp300l #1
143	300.00	71.64	68.00	84.00	76.00	100	0.71	1.49	1.00	1.00	1.00	2.52E-04	bp300l #2
144	300.00	171.75	68.00	84.00	76.00	100	0.71	1.49	1.00	1.00	1.00	8.94E-04	bp300l #3
145	300.00	20.52	137.00	167.00	152.00	100	0.71	1.49	1.00	1.00	1.00	2.07E-05	bp300l #4
146	300.00	71.64	137.00	167.00	152.00	100	0.71	1.49	1.00	1.00	1.00	2.43E-05	bp300l #5
147	300.00	171.75	137.00	167.00	152.00	100	0.71	1.49	1.00	1.00	1.00	1.63E-05	bp300l #6
148	300.00	20.52	318.00	368.00	343.00	100	0.71	1.49	1.00	1.00	1.00	1.19E-05	bp300l #7
149	300.00	71.64	318.00	368.00	343.00	100	0.71	1.49	1.00	1.00	1.00	4.24E-06	bp300l #8
150	300.00	171.75	318.00	368.00	343.00	100	0.71	1.49	1.00	1.00	1.00	7.62E-06	bp300l #9
151	300.00	20.52	1208.00	1388.00	1298.00	100	0.71	1.49	1.00	1.00	1.00	2.08E-06	bp300l #10
152	300.00	71.64	1208.00	1388.00	1298.00	100	0.71	1.49	1.00	1.00	1.00	6.93E-07	bp300l #11
153	300.00	171.75	1208.00	1388.00	1298.00	100	0.71	1.49	1.00	1.00	1.00	6.93E-07	bp300l #12
154	300.00	20.52	2429.00	2689.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	4.15E-06	bp300l #13
155	300.00	71.64	2429.00	2689.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	9.21E-08	bp300l #14
156	300.00	171.75	2429.00	2689.00	2559.00	100	0.71	1.49	1.00	1.00	1.00	3.39E-07	bp300l #15

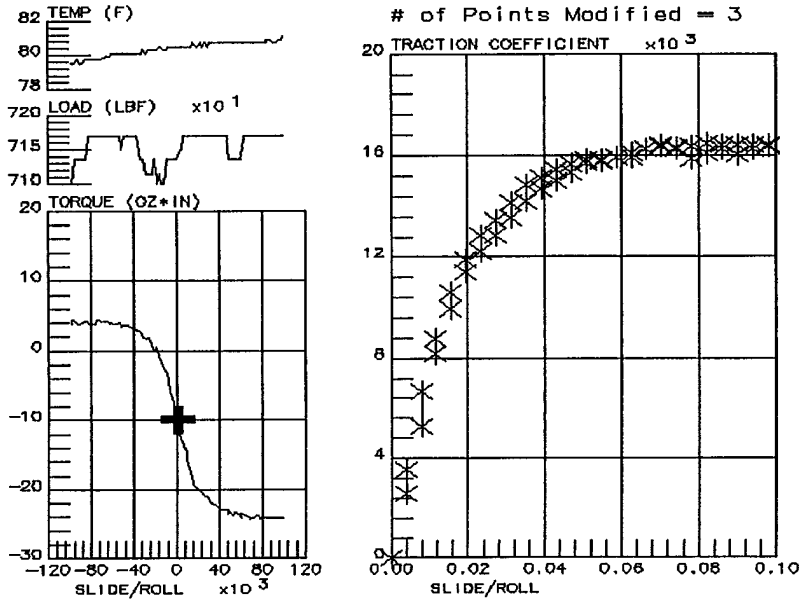
Summary of Select Data Files

Filename	Temp	RollRpm	DataCurve #	
bp1.dat	80.00	1298.00	32	33
bp2.dat	80.00	2559.00	35	36
bp3.dat	80.00	5080.00	2	3
bp4.dat	80.00	7639.00	5	6
bp5.dat	80.00	10198.00	8	9
bp6.dat	100.00	1298.00	56	57
bp7.dat	100.00	2559.00	59	60
bp8.dat	100.00	5080.00	38	39
bp9.dat	100.00	7639.00	41	42
bp10.dat	100.00	10198.00	44	45
bp11.dat	150.00	1298.00	80	81
bp12.dat	150.00	2559.00	83	84
bp13.dat	150.00	5080.00	62	63
bp14.dat	150.00	7639.00	65	66
bp15.dat	150.00	10198.00	68	69
bp16.dat	200.00	1298.00	104	105
bp17.dat	200.00	2559.00	107	108
bp18.dat	200.00	5080.00	86	87
bp19.dat	200.00	7639.00	89	90
bp20.dat	200.00	10198.00	92	93
bp21.dat	250.00	1298.00	128	129
bp22.dat	250.00	2559.00	131	132
bp23.dat	250.00	5080.00	110	111
bp24.dat	250.00	7639.00	113	114
bp25.dat	250.00	10198.00	116	117
bp26.dat	300.00	1298.00	152	153
bp27.dat	300.00	2559.00	155	156
bp28.dat	300.00	5080.00	134	135
bp29.dat	300.00	7639.00	137	138
bp30.dat	300.00	10198.00	140	141

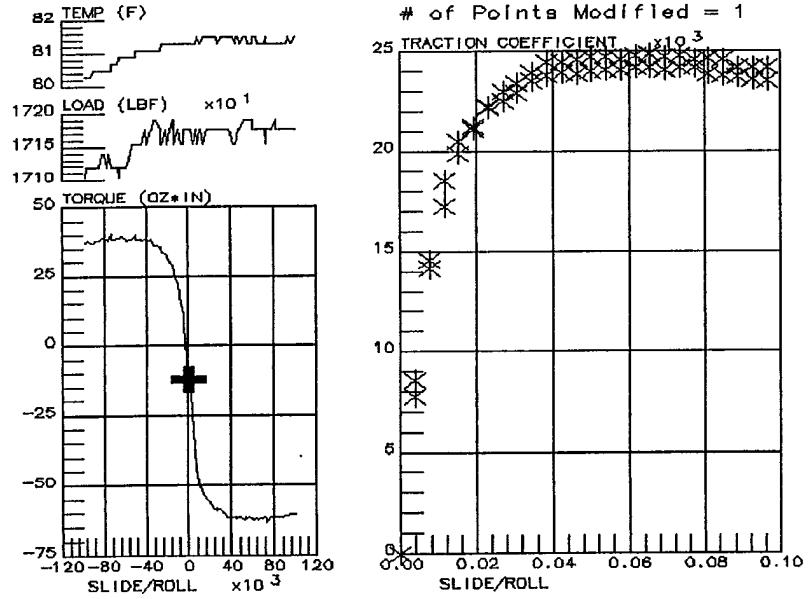
BP 91-119 Pennzane #1
80F 21LBF 5080RPM 1 FILE: bp80h



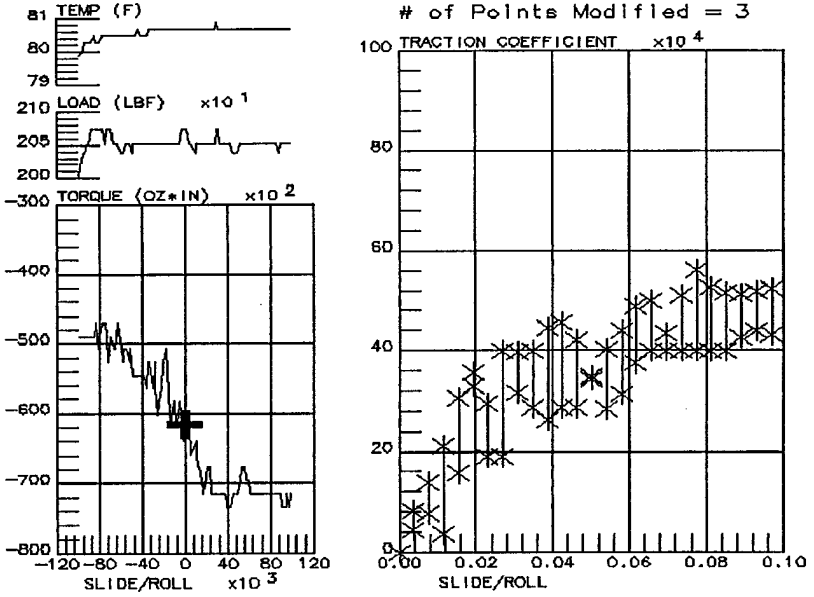
BP 91-119 Pennzane #2
80F 72LBF 5080RPM 2 FILE: bp80h

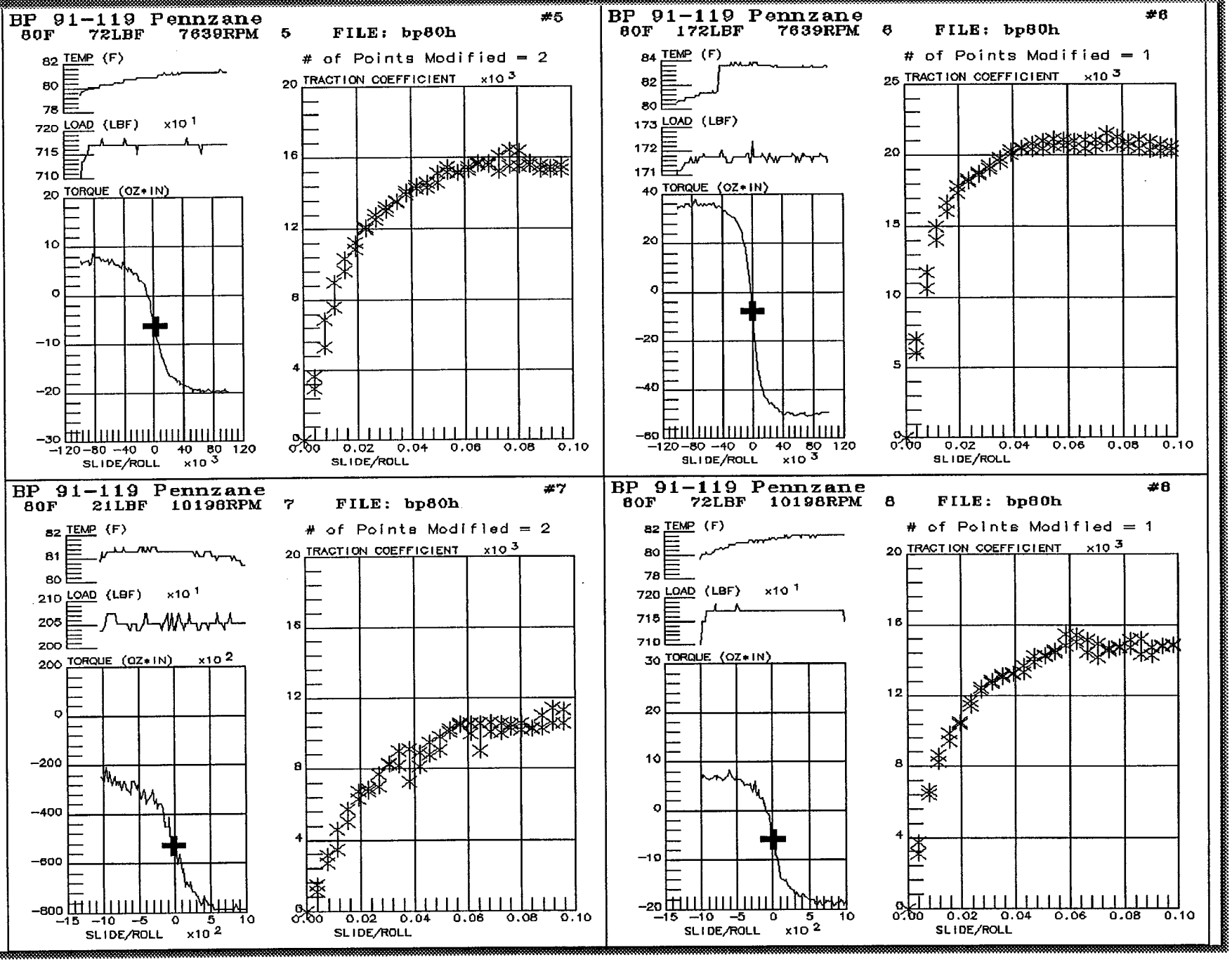


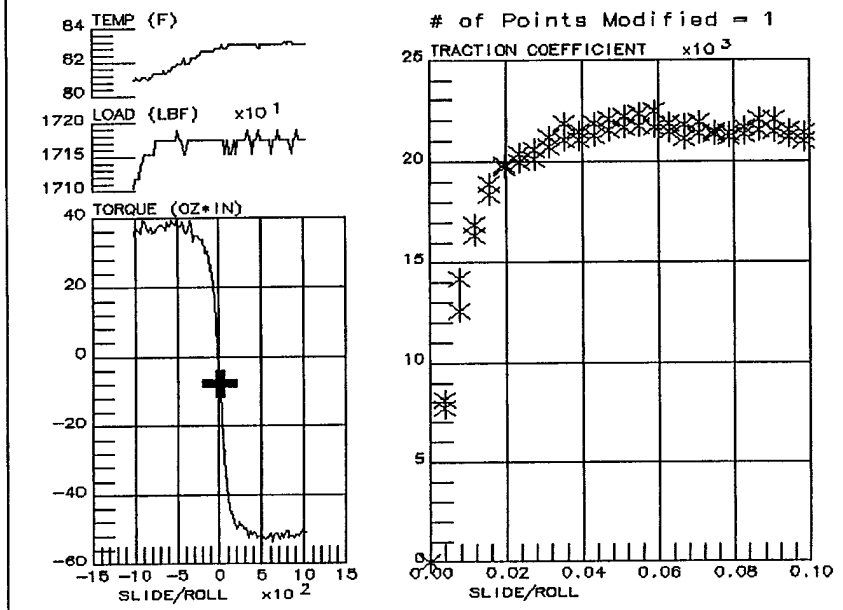
BP 91-119 Pennzane #3
80F 172LBF 5080RPM 3 FILE: bp80h

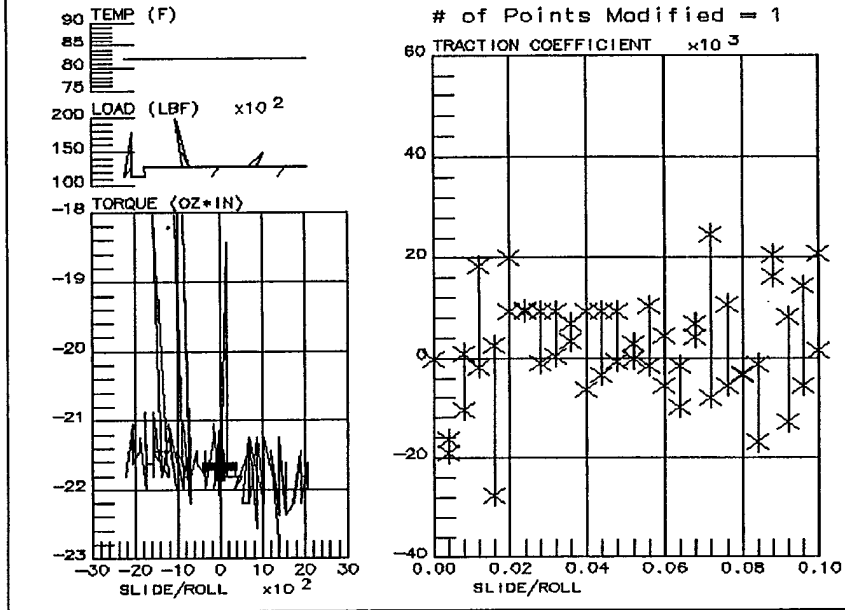


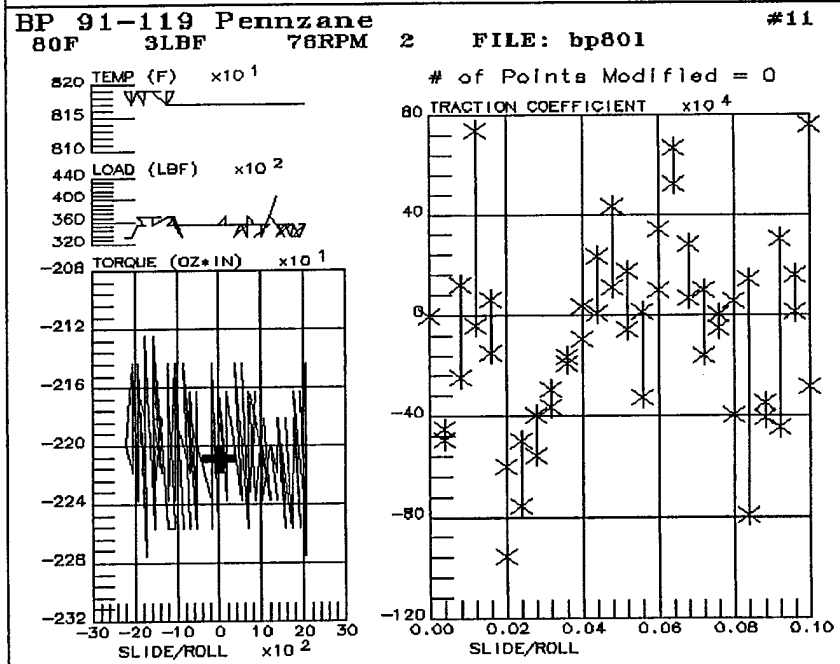
BP 91-119 Pennzane #4
80F 21LBF 7639RPM 4 FILE: bp80h

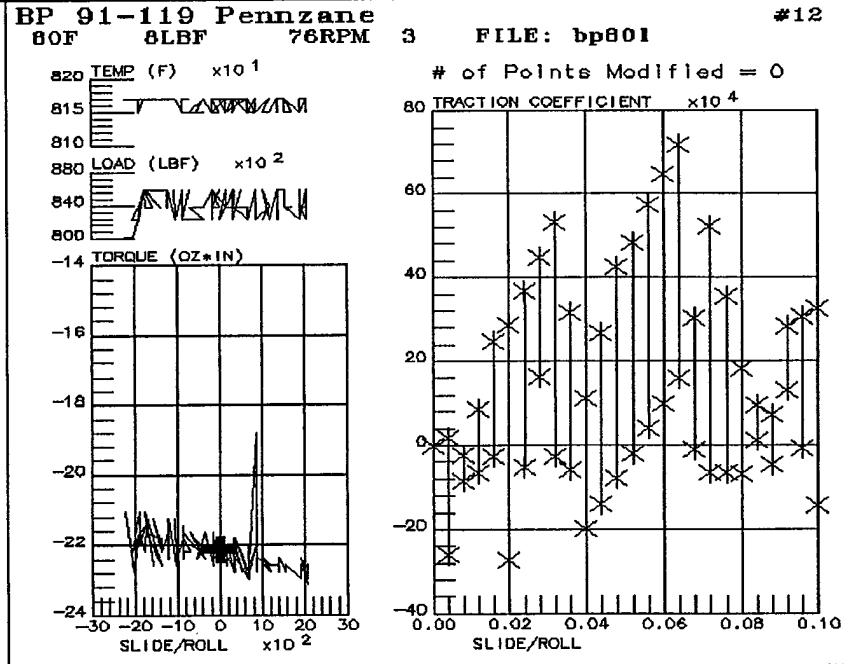



BP 91-119 Pennzane
80F 72LBF 7639RPM 5 FILE: bp80h
#5
# of Points Modified = 2
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 3
TRACTION COEFFICIENT x10 3
SLIDE/ROLL
BP 91-119 Pennzane
80F 172LBF 7639RPM 6 FILE: bp80h
#6
# of Points Modified = 1
TEMP (F)
LOAD (LBF)
TORQUE (OZ*IN)
SLIDE/ROLL x10 3
TRACTION COEFFICIENT x10 3
SLIDE/ROLL
BP 91-119 Pennzane
80F 21LBF 10198RPM 7 FILE: bp80h
#7
# of Points Modified = 2
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN) x10 2
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL
BP 91-119 Pennzane
80F 72LBF 10198RPM 8 FILE: bp80h
#8
# of Points Modified = 1
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL

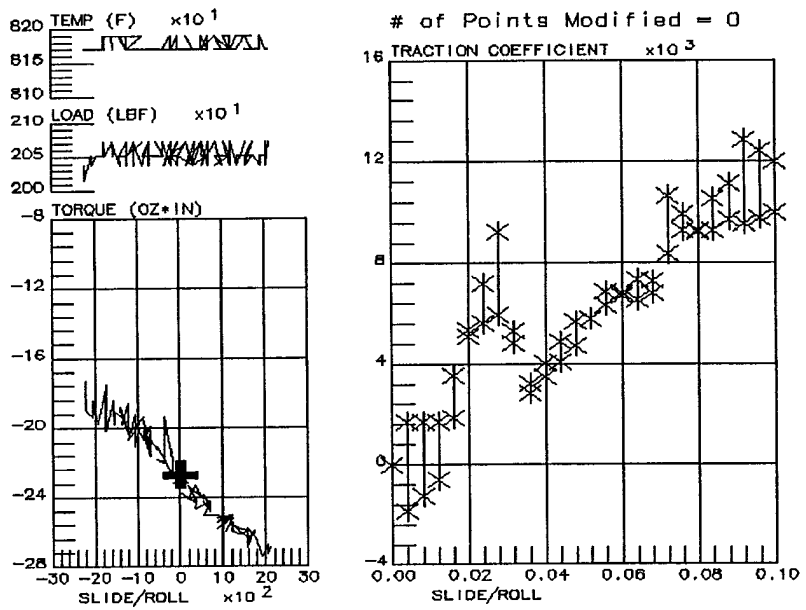

BP 91-119 Pennzane
#9
80F 172LBF 10198RPM 9 FILE: bp80h
# of Points Modified = 1
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL


BP 91-119 Pennzane
#10
80F 1LBF 76RPM 1 FILE: bp801
# of Points Modified = 1
TEMP (F)
LOAD (LBF) x10 2
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL


BP 91-119 Pennzane
#11
80F 3LBF 76RPM 2 FILE: bp801
# of Points Modified = 0
TEMP (F) x10 1
LOAD (LBF) x10 2
TORQUE (OZ*IN) x10 1
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 4
SLIDE/ROLL

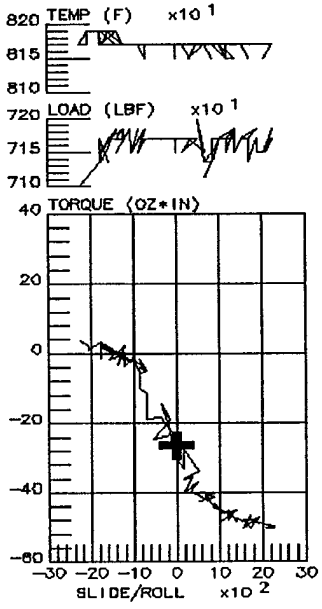

BP 91-119 Pennzane
#12
80F 8LBF 76RPM 3 FILE: bp801
# of Points Modified = 0
TEMP (F) x10 1
LOAD (LBF) x10 2
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 4
SLIDE/ROLL

BP 91-119 Pennzane #13
80F 21LBF 76RPM 4 FILE: bp801

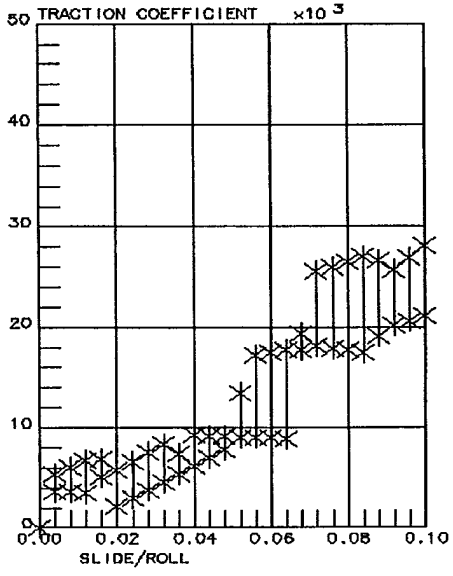


# of Points Modified = 0

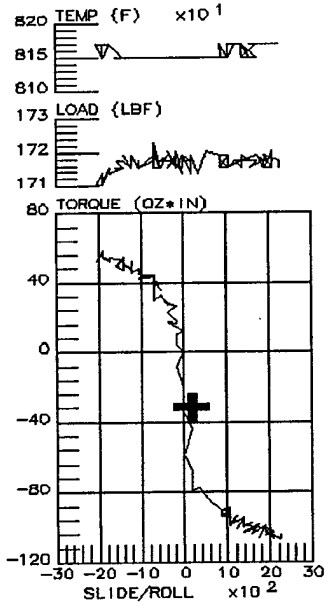
BP 91-119 Pennzane #14
80F 72LBF 76RPM 5 FILE: bp801



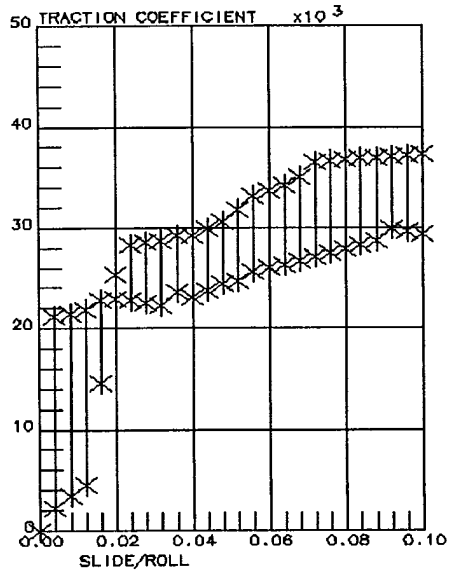
# of Points Modified = 0



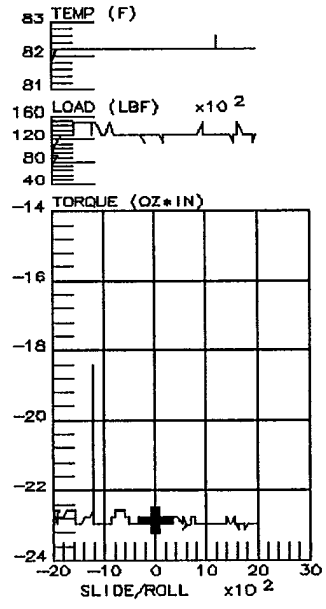
BP 91-119 Pennzane #15
80F 172LBF 76RPM 6 FILE: bp801



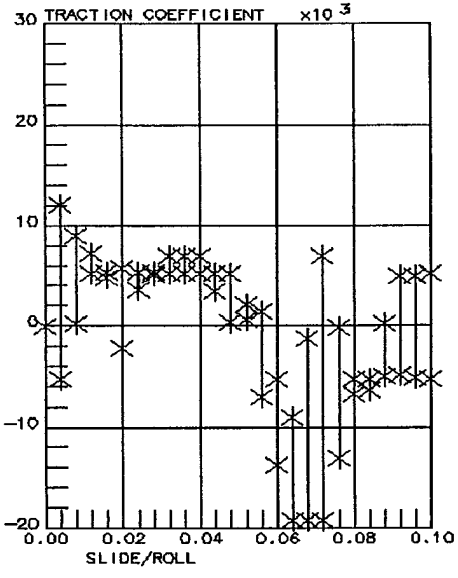
# of Points Modified = 1

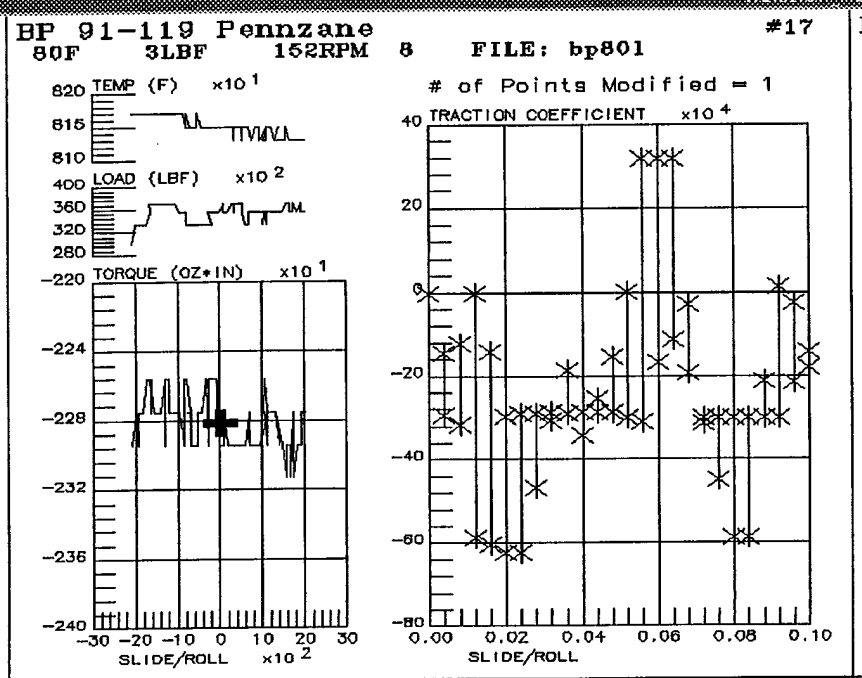


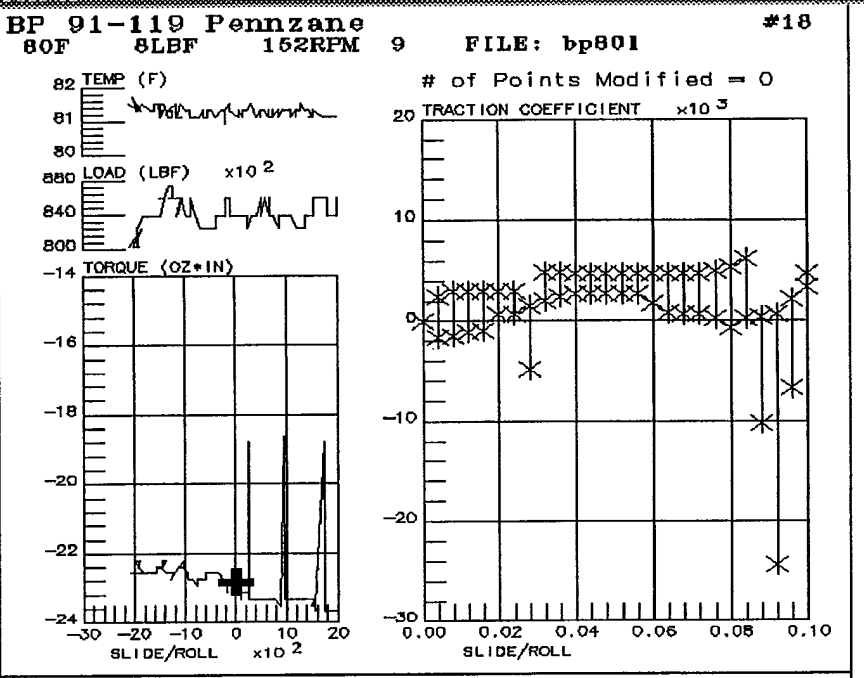
BP 91-119 Pennzane #16
80F 1LBF 152RPM 7 FILE: bp801

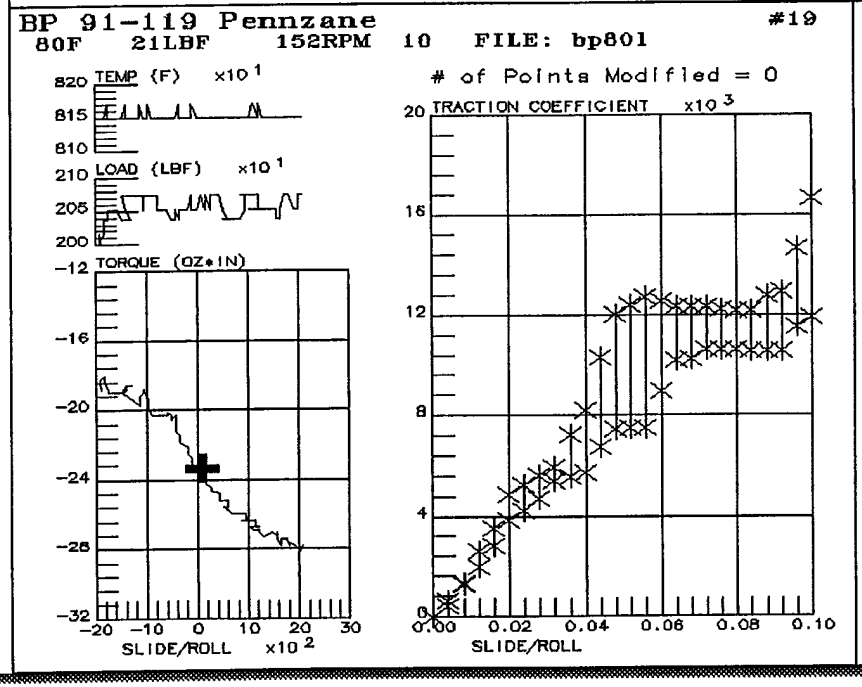


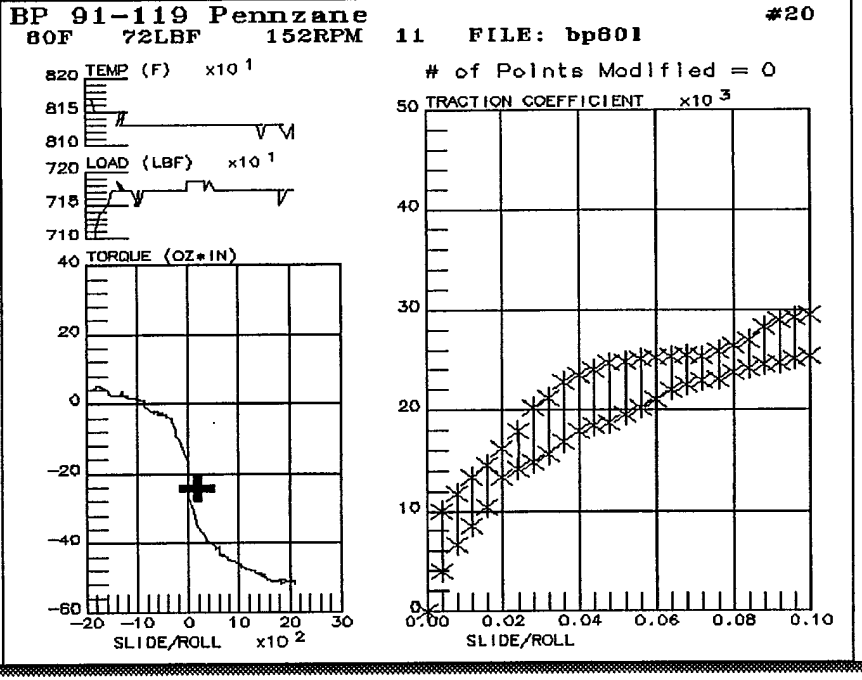
# of Points Modified = 2

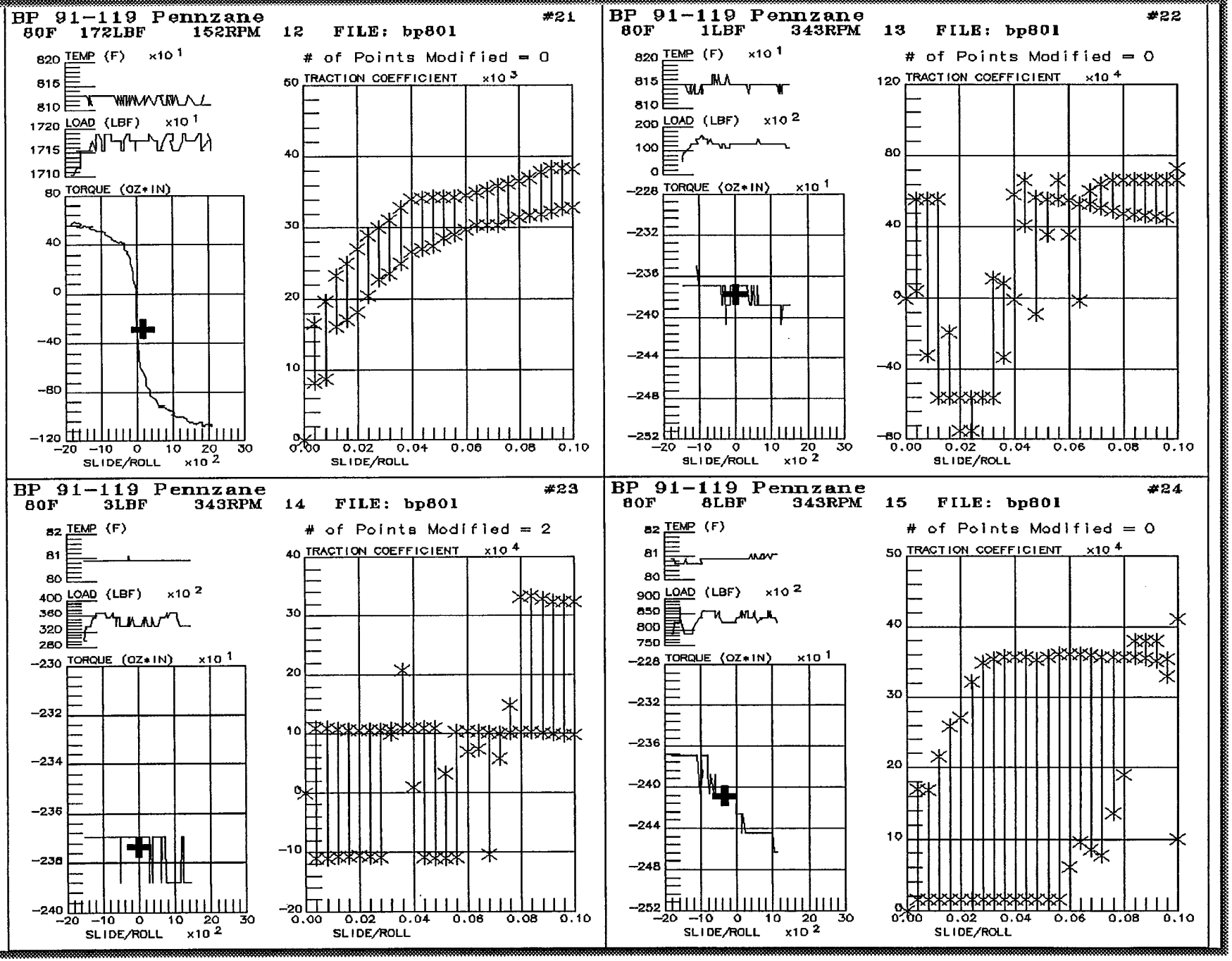



BP 91-119 Pennzane
80F 3LBF 152RPM 8 FILE: bp801
#17
# of Points Modified = 1
TEMP (F) x10 1
LOAD (LBF) x10 2
TORQUE (OZ*IN) x10 1
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 4
SLIDE/ROLL

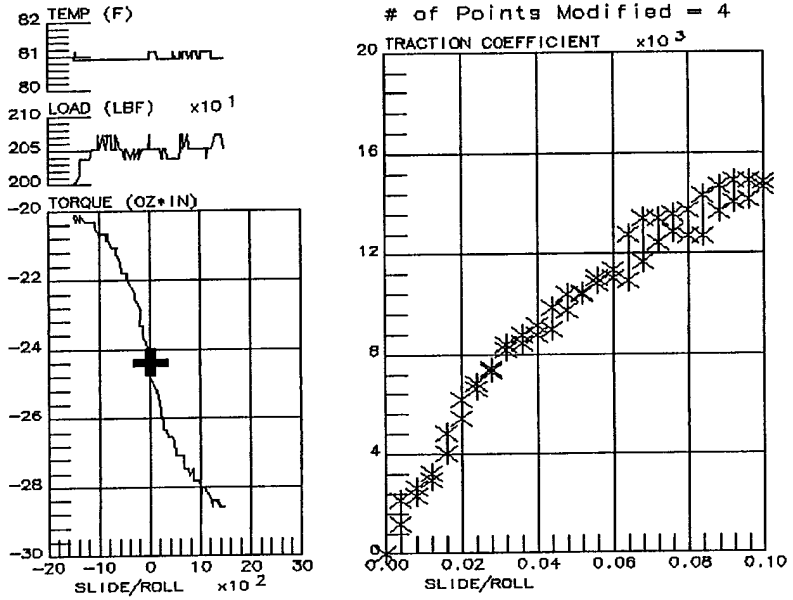

BP 91-119 Pennzane
80F 8LBF 152RPM 9 FILE: bp801
#18
# of Points Modified = 0
TEMP (F)
LOAD (LBF) x10 2
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL


BP 91-119 Pennzane
80F 21LBF 152RPM 10 FILE: bp801
#19
# of Points Modified = 0
TEMP (F) x10 1
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL


BP 91-119 Pennzane
80F 72LBF 152RPM 11 FILE: bp801
#20
# of Points Modified = 0
TEMP (F) x10 1
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL

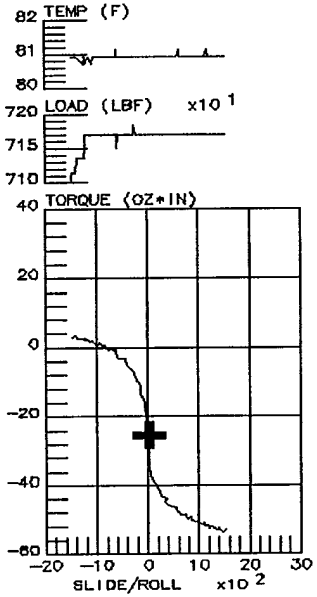

BP 91-119 Pennzane
80F 172LBF 152RPM
#21
12 FILE: bp801
# of Points Modified = 0
TEMP (F) x10 1
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL
BP 91-119 Pennzane
80F 1LBF 343RPM
#22
13 FILE: bp801
# of Points Modified = 0
TEMP (F) x10 1
LOAD (LBF) x10 2
TORQUE (OZ*IN) x10 1
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 4
SLIDE/ROLL
BP 91-119 Pennzane
80F 3LBF 343RPM
#23
14 FILE: bp801
# of Points Modified = 2
TEMP (F)
LOAD (LBF) x10 2
TORQUE (OZ*IN) x10 1
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 4
SLIDE/ROLL
BP 91-119 Pennzane
80F 8LBF 343RPM
#24
15 FILE: bp801
# of Points Modified = 0
TEMP (F)
LOAD (LBF) x10 2
TORQUE (OZ*IN) x10 1
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 4
SLIDE/ROLL

BP 91-119 Pennzane #25
80F 21LBF 343RPM 16 FILE: bp801

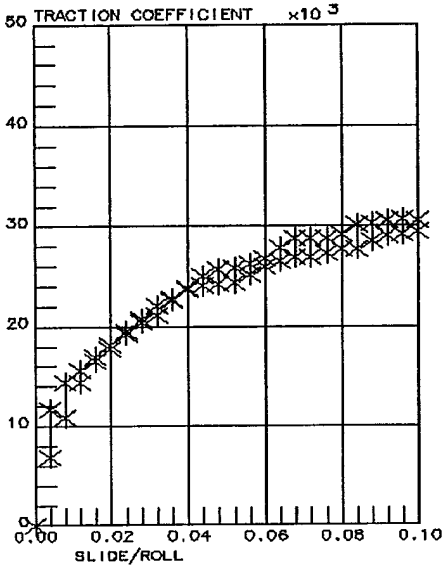


# of Points Modified = 4

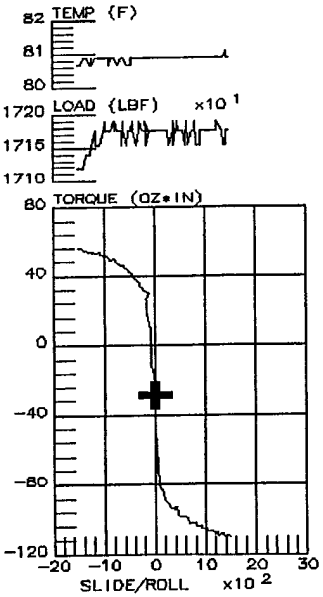
BP 91-119 Pennzane #26
80F 72LBF 343RPM 17 FILE: bp801



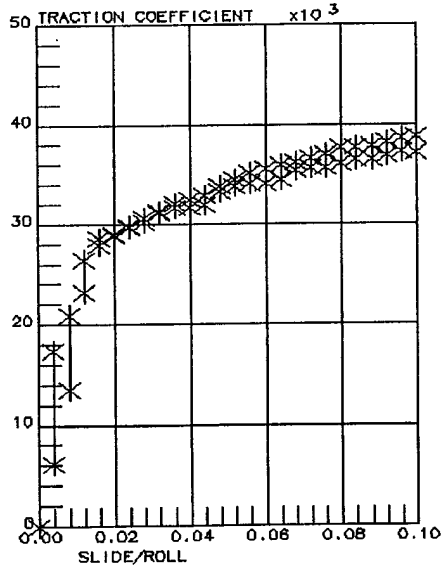
# of Points Modified = 1



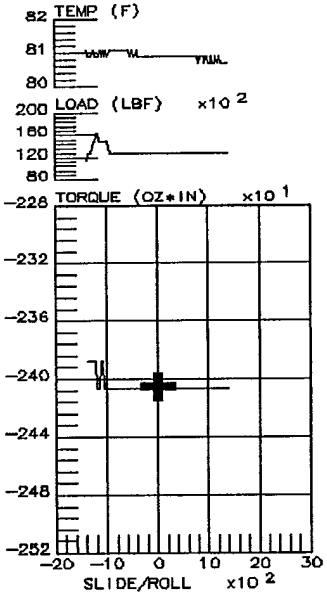
BP 91-119 Pennzane #27
80F 172LBF 343RPM 18 FILE: bp801



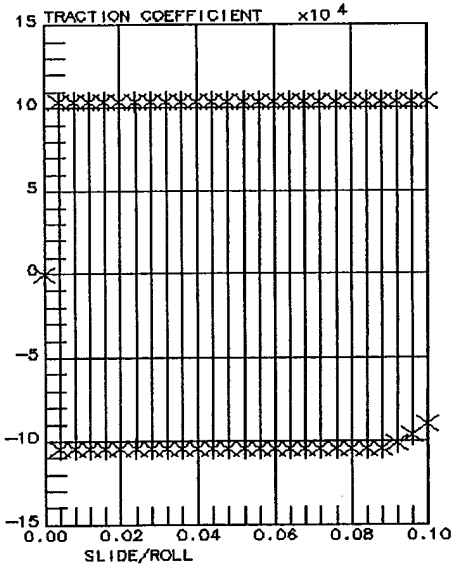
# of Points Modified = 0



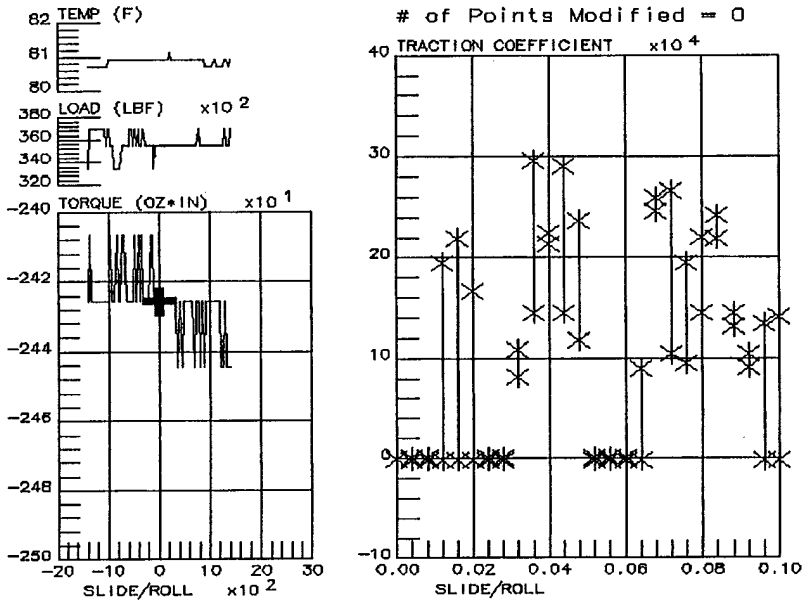
BP 91-119 Pennzane #28
80F 1LBF 1298RPM 19 FILE: bp801



# of Points Modified = 1

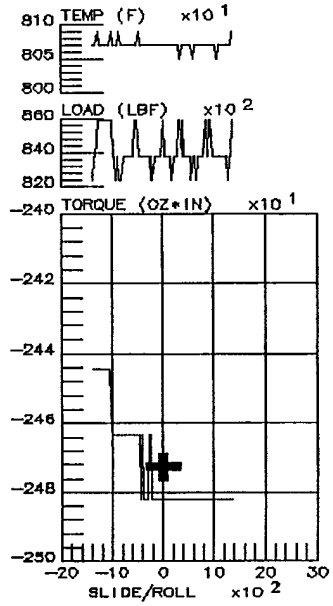


BP 91-119 Pennzane #29
80F 3LBF 1298RPM 20 FILE: bp801

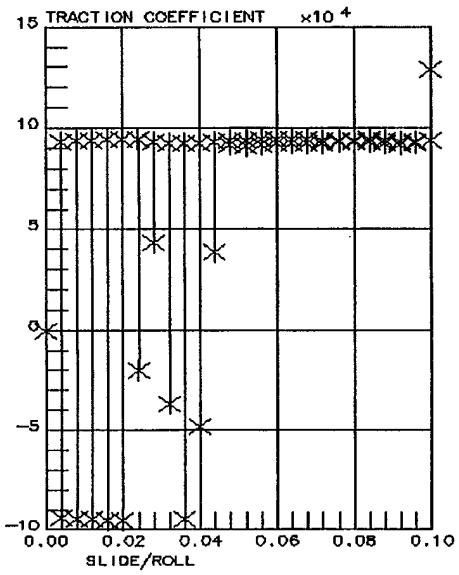


# of Points Modified = 0

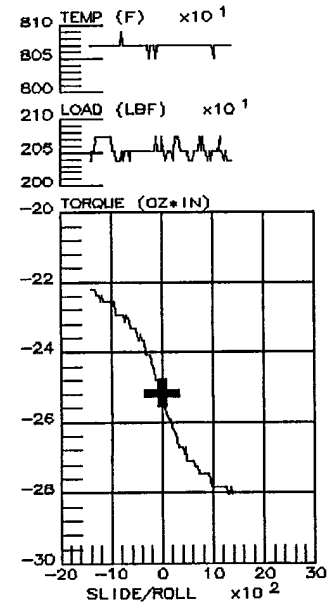
BP 91-119 Pennzane #30
80F 8LBF 1298RPM 21 FILE: bp801



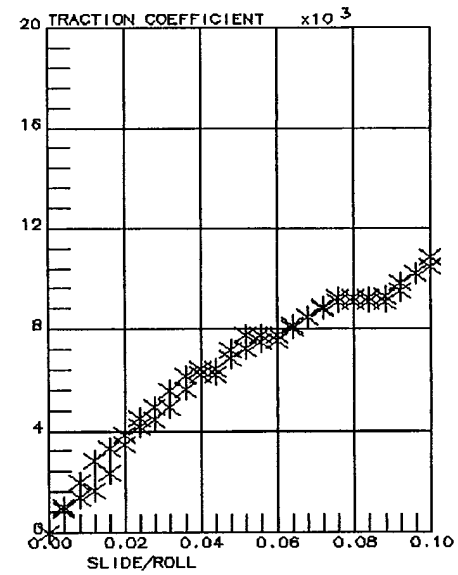
# of Points Modified = 2



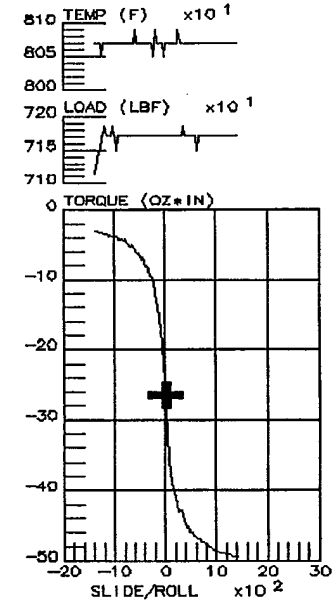
BP 91-119 Pennzane #31
80F 21LBF 1298RPM 22 FILE: bp801



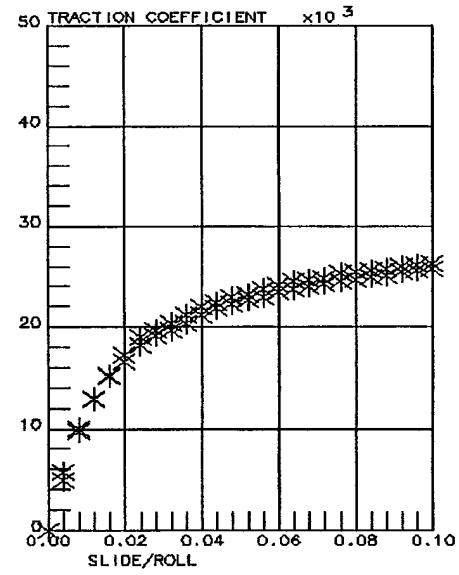
# of Points Modified = 1



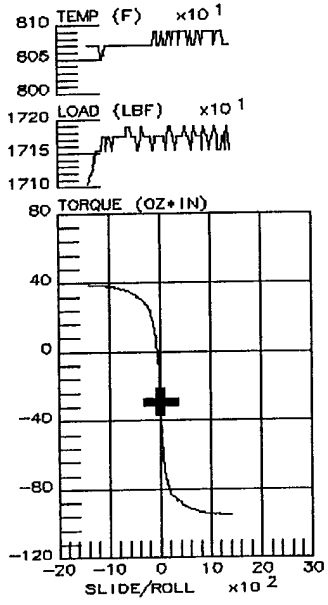
BP 91-119 Pennzane #32
80F 72LBF 1298RPM 23 FILE: bp801



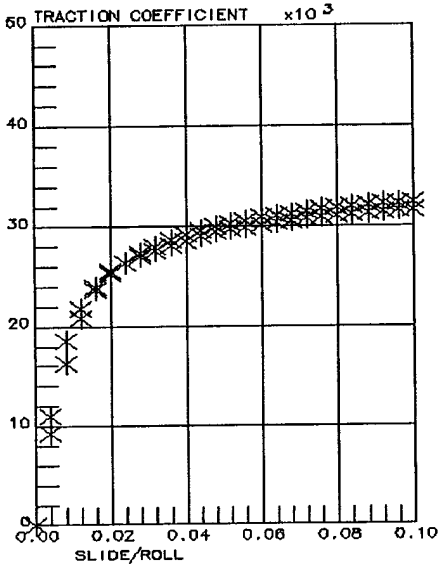
# of Points Modified = 1



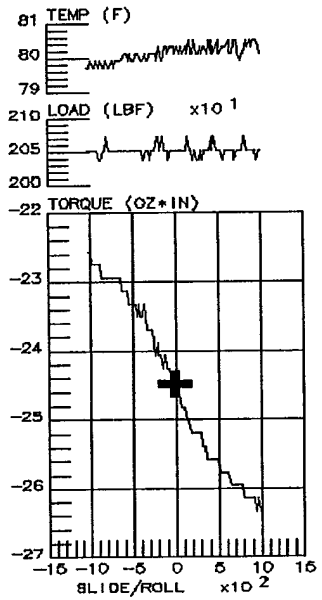
BP 91-119 Pennzane #33
80F 172LBF 1298RPM 24 FILE: bp801



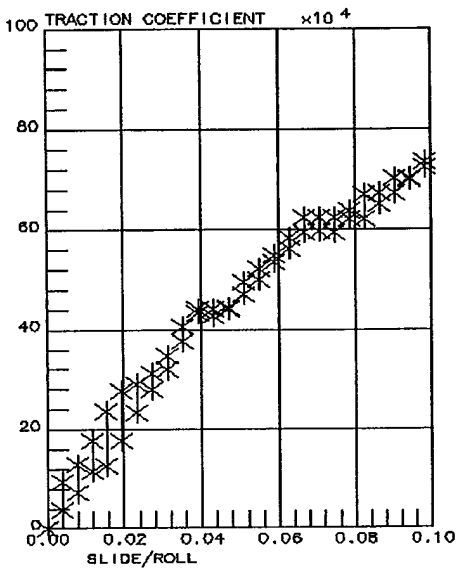
# of Points Modified = 1



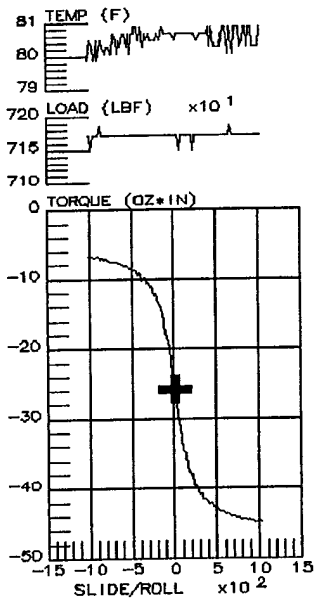
BP 91-119 Pennzane #34
80F 21LBF 2559RPM 1 FILE: bp801x



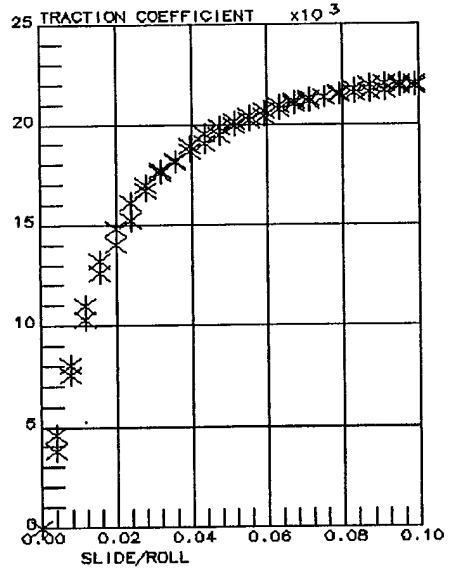
# of Points Modified = 0



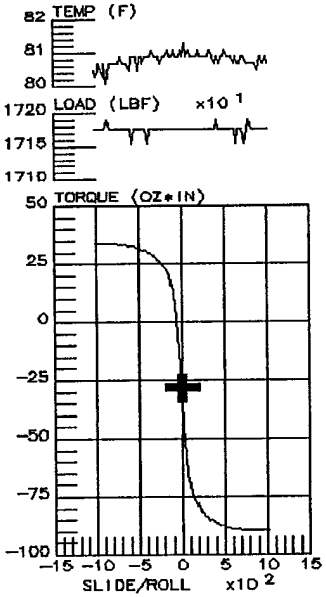
BP 91-119 Pennzane #35
80F 72LBF 2559RPM 2 FILE: bp801x



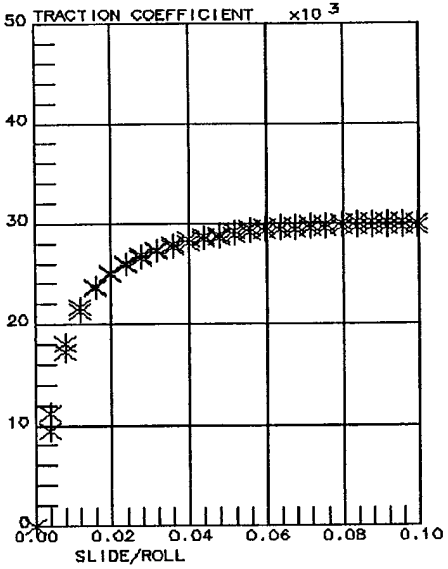
# of Points Modified = 2



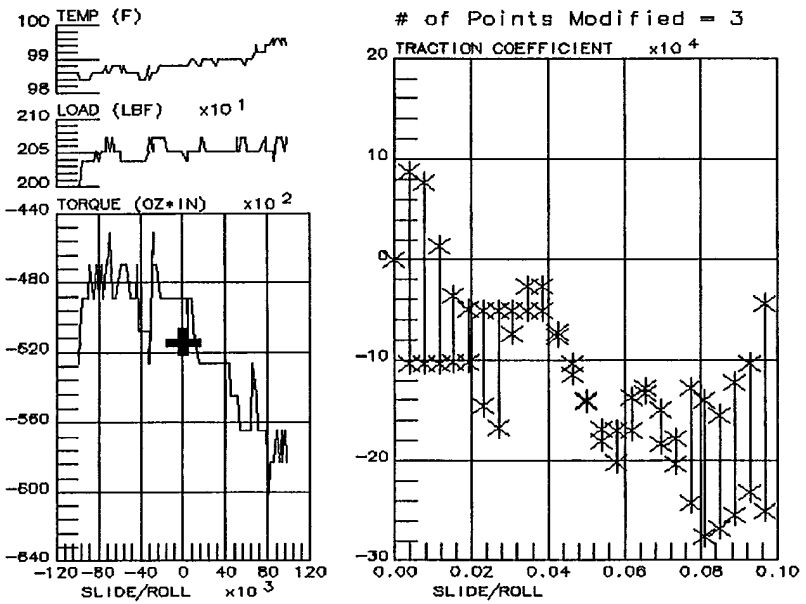
BP 91-119 Pennzane #36
80F 172LBF 2559RPM 3 FILE: bp801x



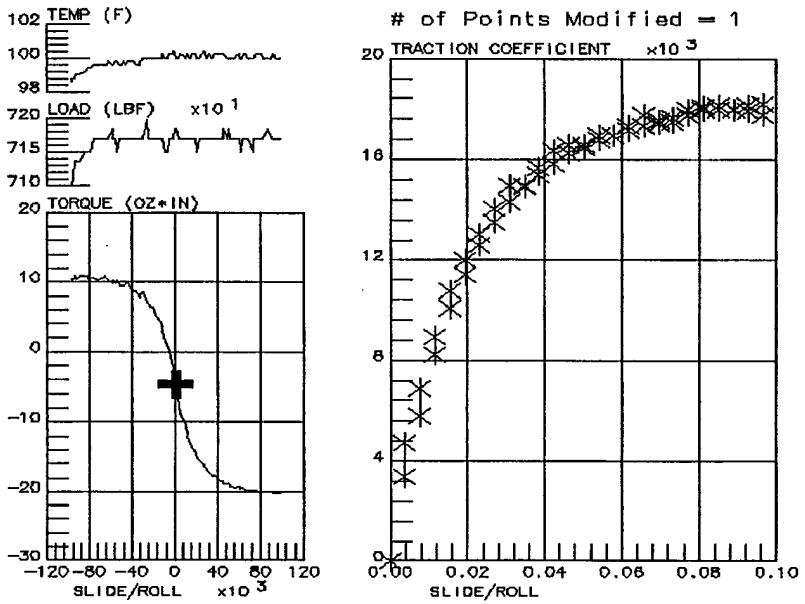
# of Points Modified = 2



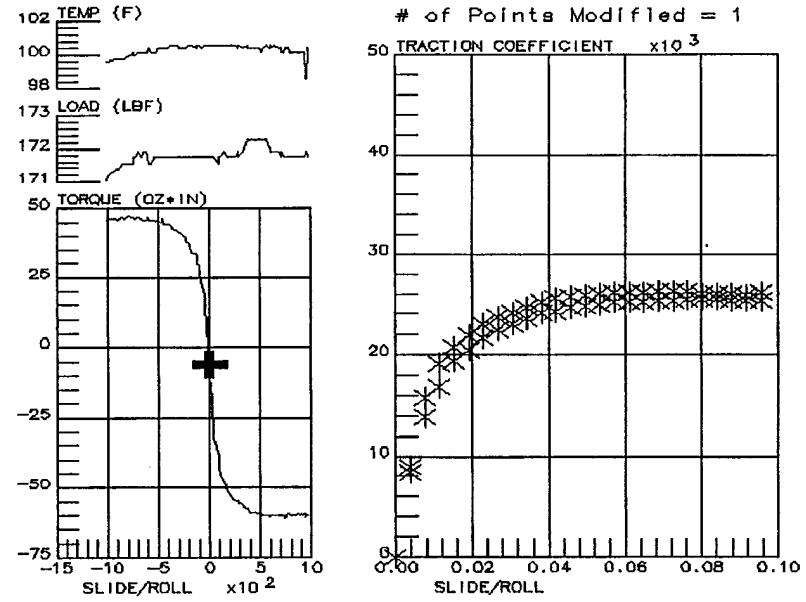
BP 91-119 Pennzane #37
100F 21LBF 5080RPM 1 FILE: bp100h



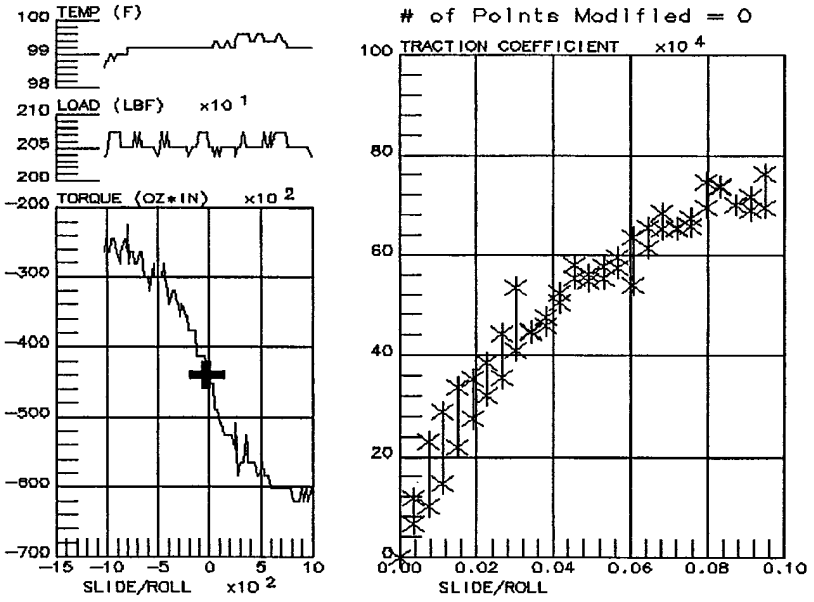
BP 91-119 Pennzane #38
100F 72LBF 5080RPM 2 FILE: bp100h



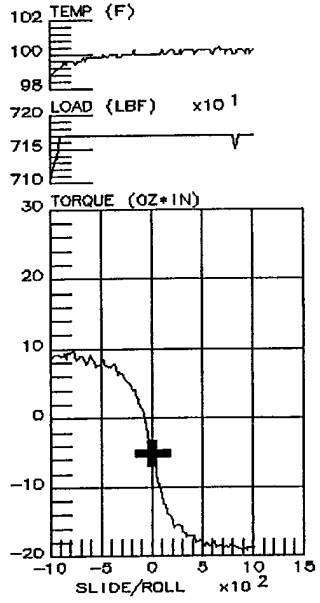
BP 91-119 Pennzane #39
100F 172LBF 5080RPM 3 FILE: bp100h



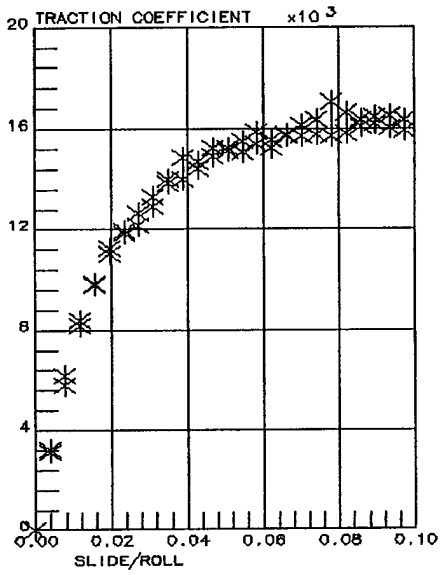
BP 91-119 Pennzane #40
100F 21LBF 7639RPM 4 FILE: bp100h



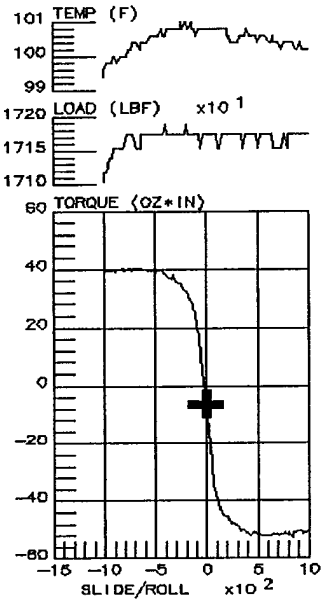
BP 91-119 Pennzane #41
100F 72LBF 7639RPM 5 FILE: bp100h



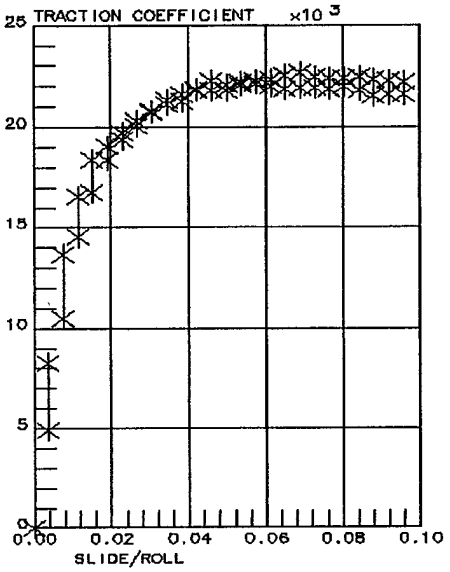
# of Points Modified = 1



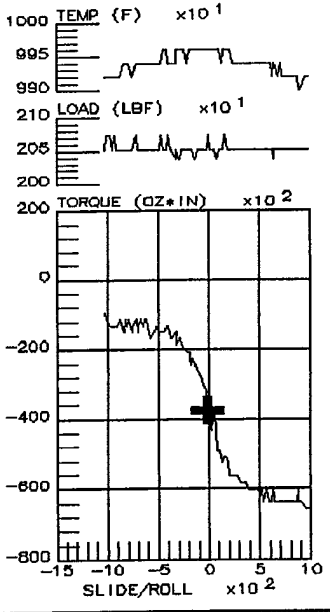
BP 91-119 Pennzane #42
100F 172LBF 7639RPM 6 FILE: bp100h



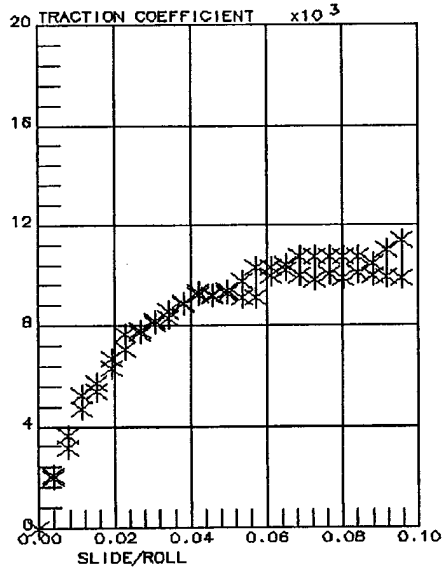
# of Points Modified = 4



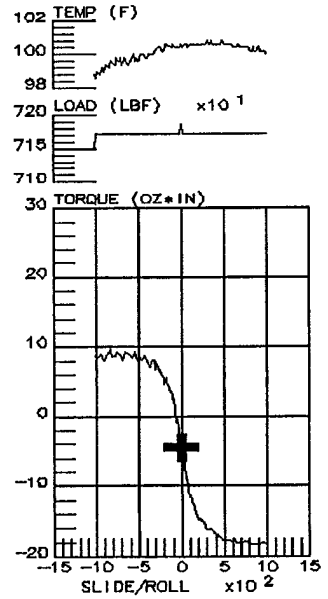
BP 91-119 Pennzane #43
100F 21LBF 10198RPM 7 FILE: bp100h



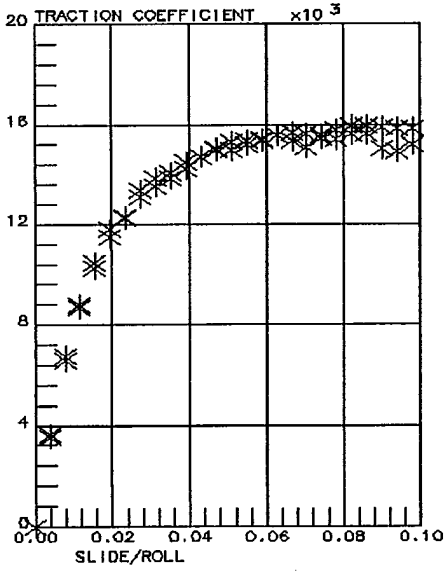
# of Points Modified = 4



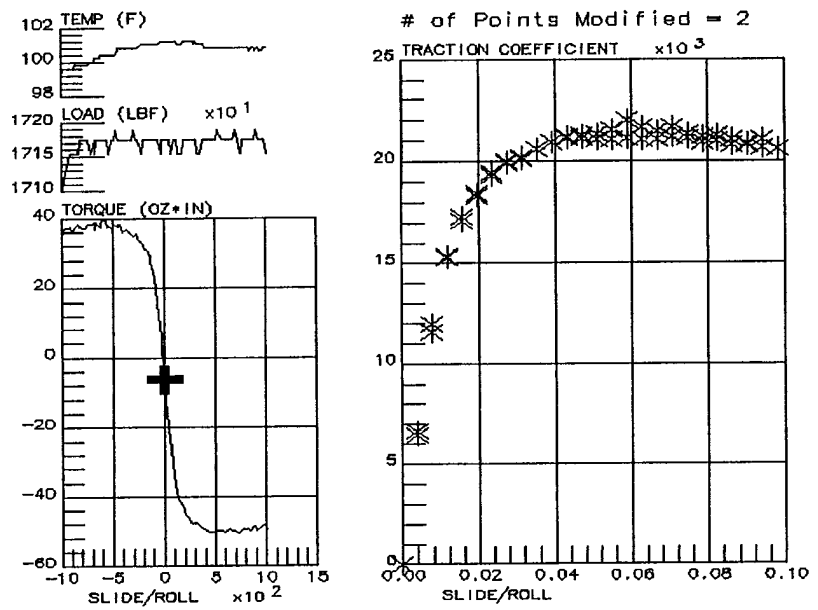
BP 91-119 Pennzane #44
100F 72LBF 10198RPM 8 FILE: bp100h



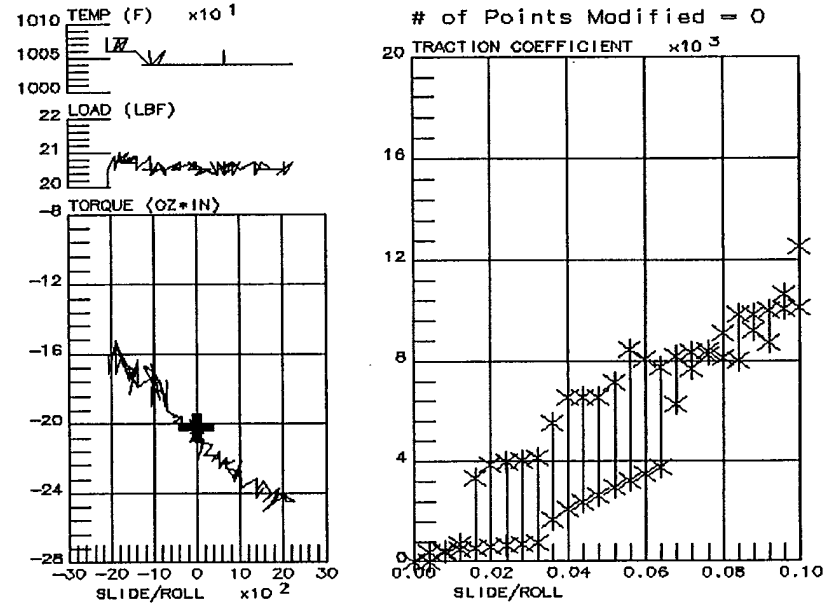
# of Points Modified = 2



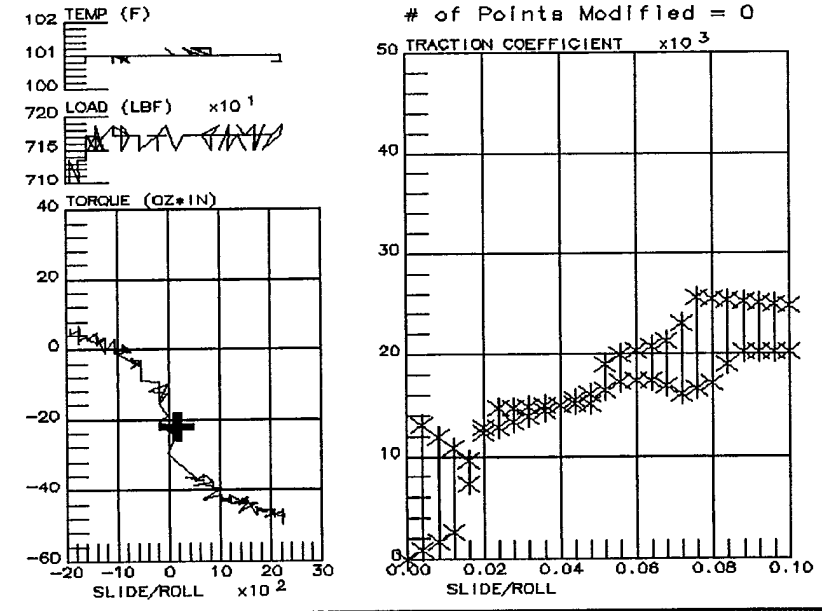
BP 91-119 Pennzane #45
100F 172LBF 10198RPM 9 FILE: bp100h



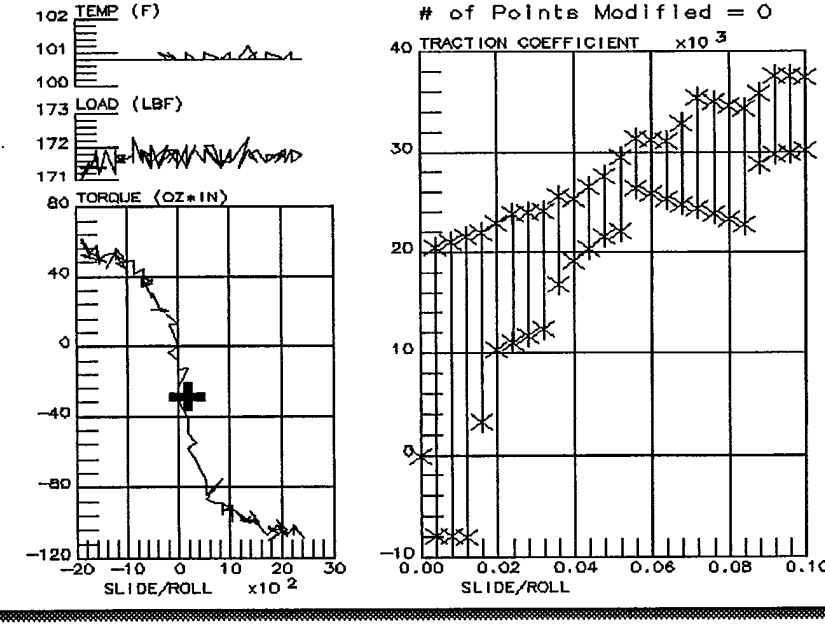
BP 91-119 Pennzane #46
100F 21LBF 76RPM 1 FILE: bp1001

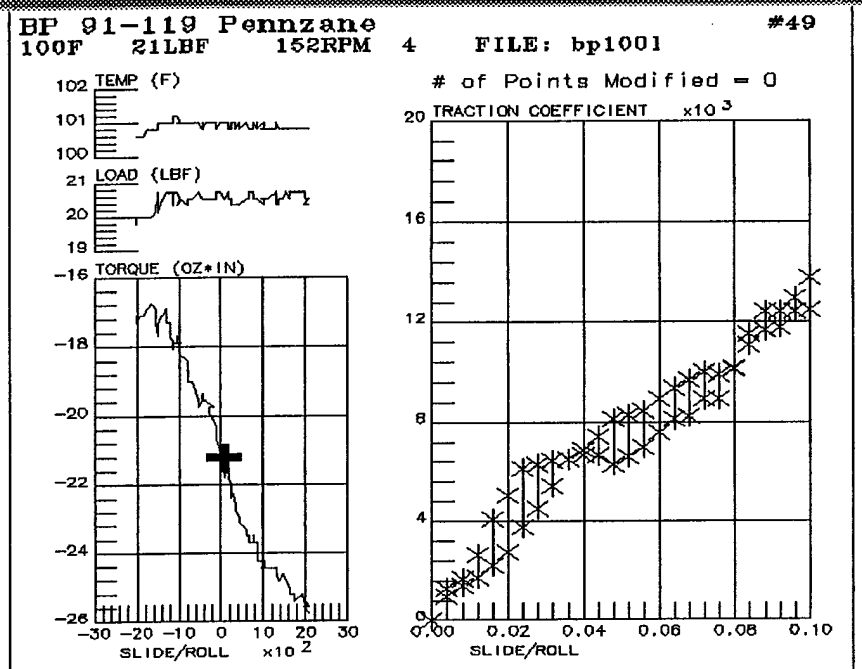


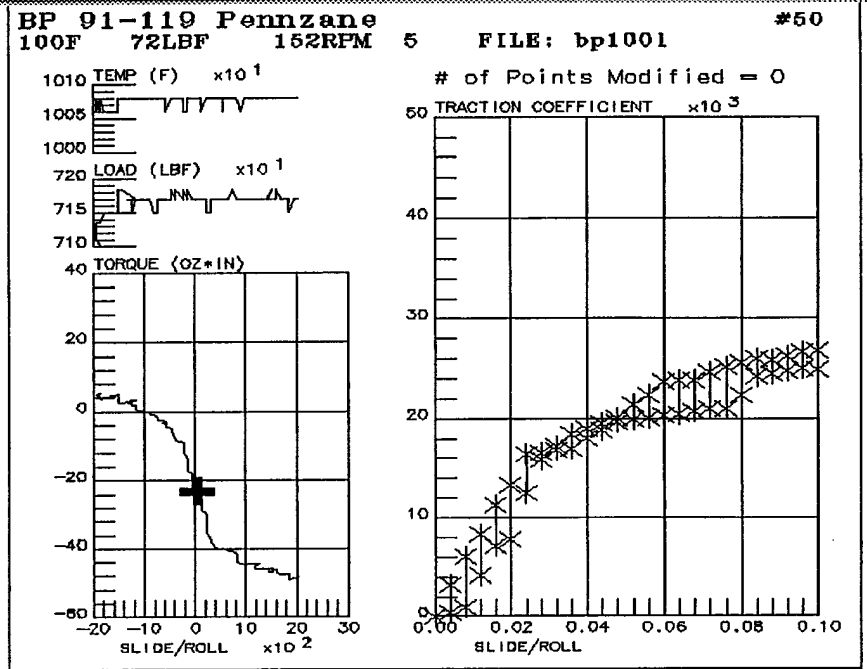
BP 91-119 Pennzane #47
100F 72LBF 76RPM 2 FILE: bp1001

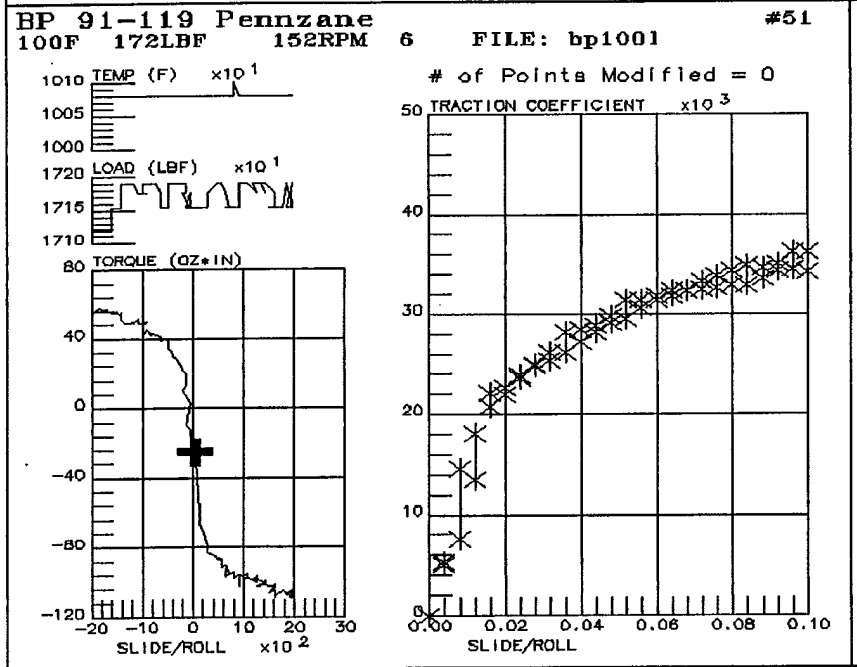


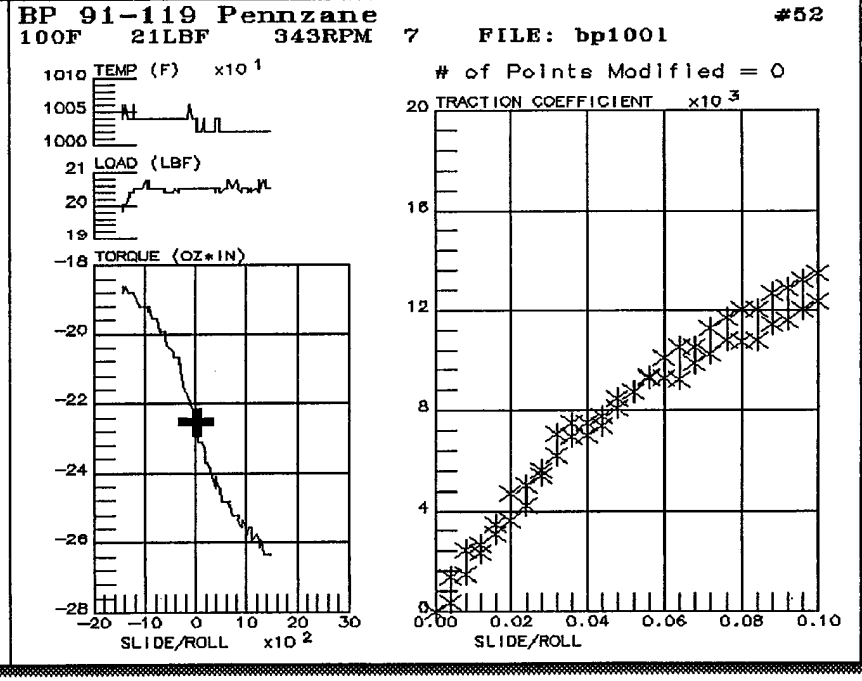
BP 91-119 Pennzane #48
100F 172LBF 76RPM 3 FILE: bp1001



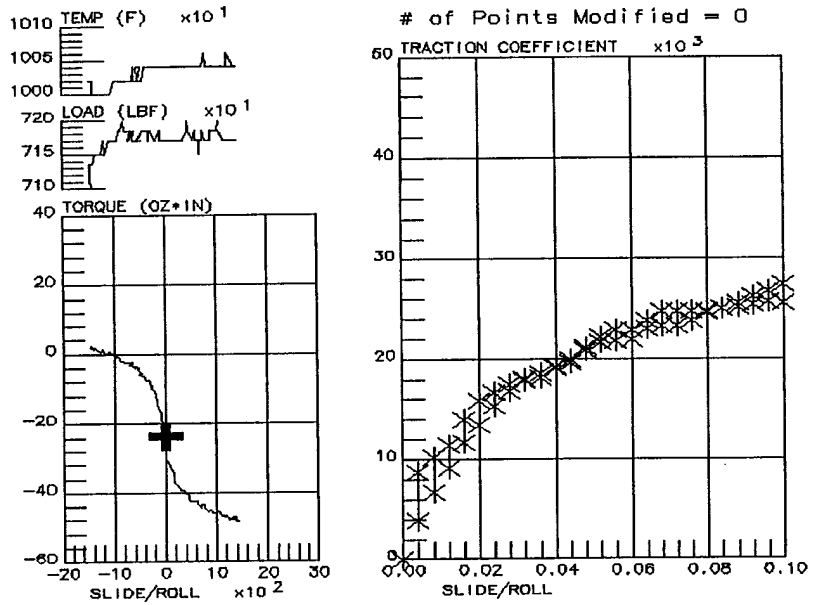

BP 91-119 Pennzane
100F 21LBF 152RPM 4 FILE: bp1001
#49
# of Points Modified = 0
TEMP (F)
LOAD (LBF)
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL


BP 91-119 Pennzane
100F 72LBF 152RPM 5 FILE: bp1001
#50
# of Points Modified = 0
TEMP (F) x10 1
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL

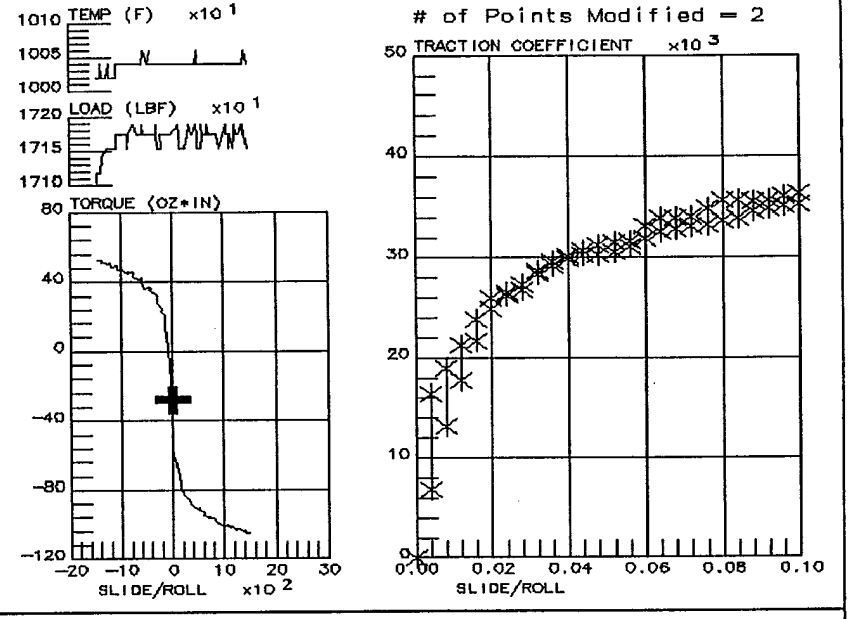

BP 91-119 Pennzane
100F 172LBF 152RPM 6 FILE: bp1001
#51
# of Points Modified = 0
TEMP (F) x10 1
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL


BP 91-119 Pennzane
100F 21LBF 343RPM 7 FILE: bp1001
#52
# of Points Modified = 0
TEMP (F) x10 1
LOAD (LBF)
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL

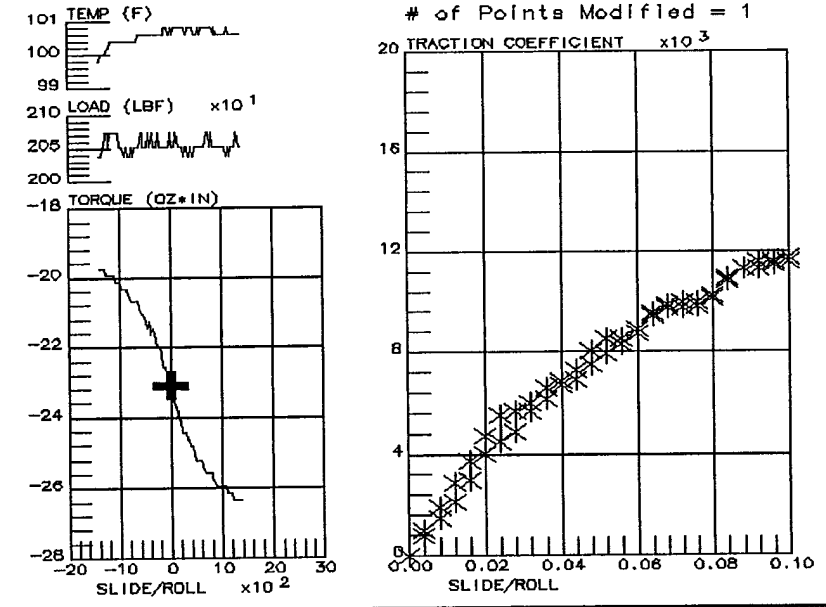
BP 91-119 Pennzane #53
100F 72LBF 343RPM 8 FILE: bp1001



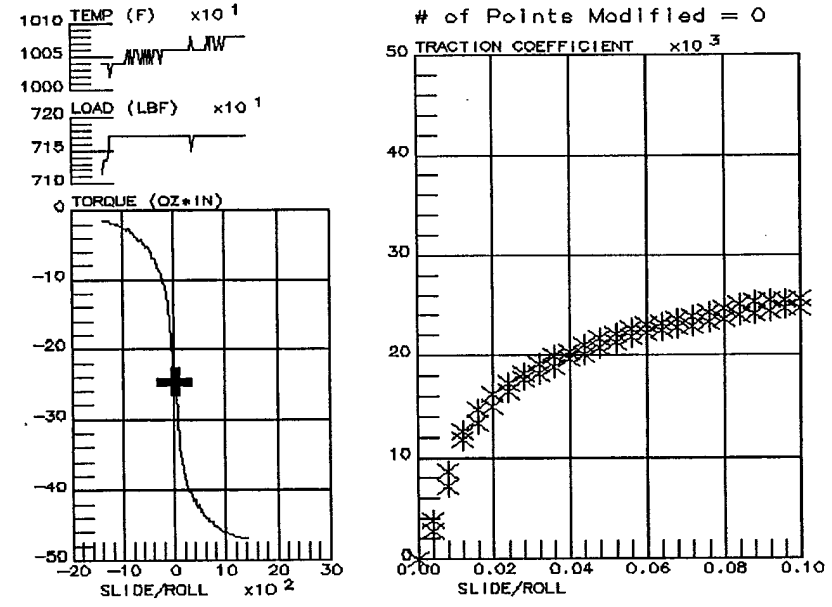
BP 91-119 Pennzane #54
100F 172LBF 343RPM 9 FILE: bp1001



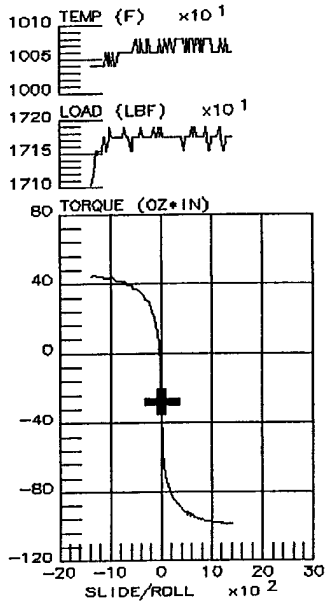
BP 91-119 Pennzane #55
100F 21LBF 1298RPM 10 FILE: bp1001



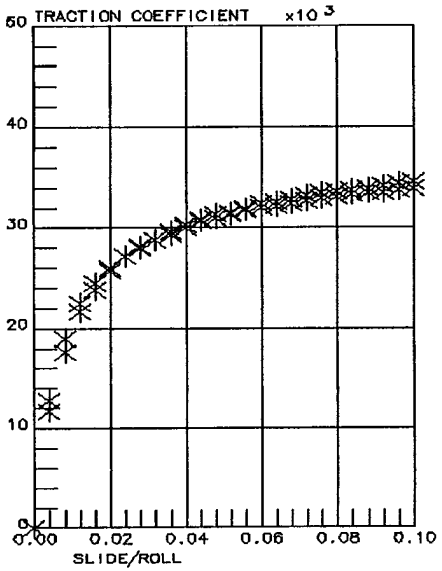
BP 91-119 Pennzane #56
100F 72LBF 1298RPM 11 FILE: bp1001



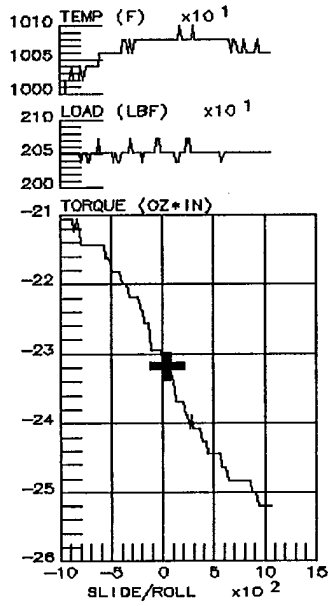
BP 91-119 Pennzane #57
100F 172LBF 1298RPM 12 FILE: bp1001



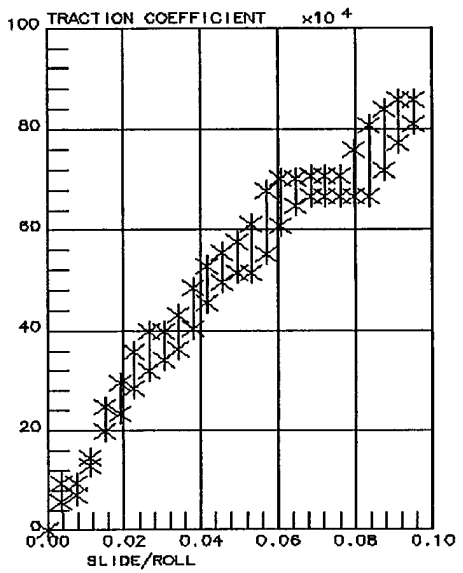
# of Points Modified = 0



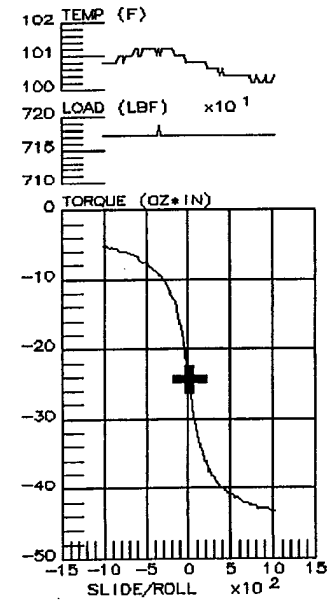
BP 91-119 Pennzane #58
100F 21LBF 2559RPM 13 FILE: bp1001



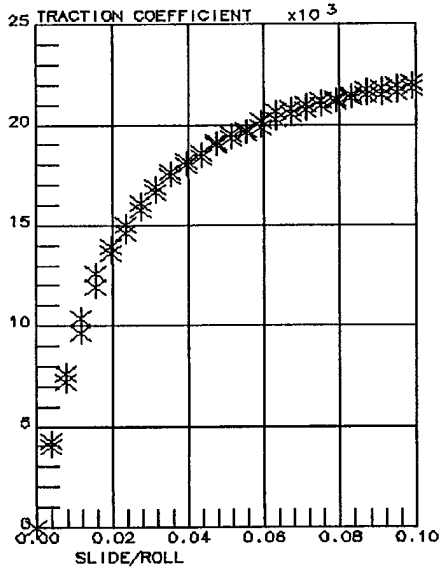
# of Points Modified = 0



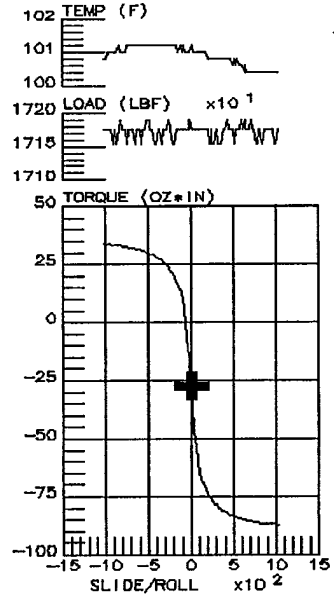
BP 91-119 Pennzane #59
100F 72LBF 2559RPM 14 FILE: bp1001



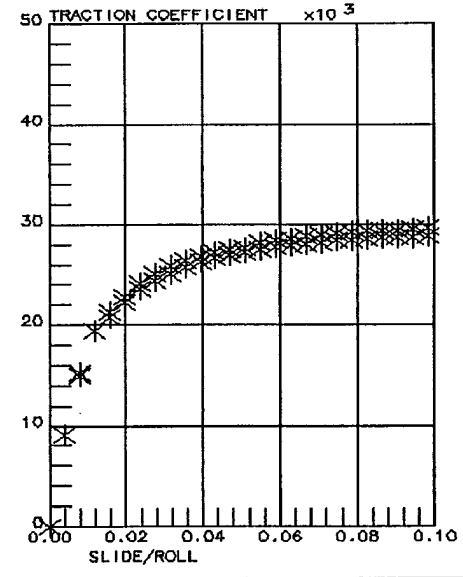
# of Points Modified = 1

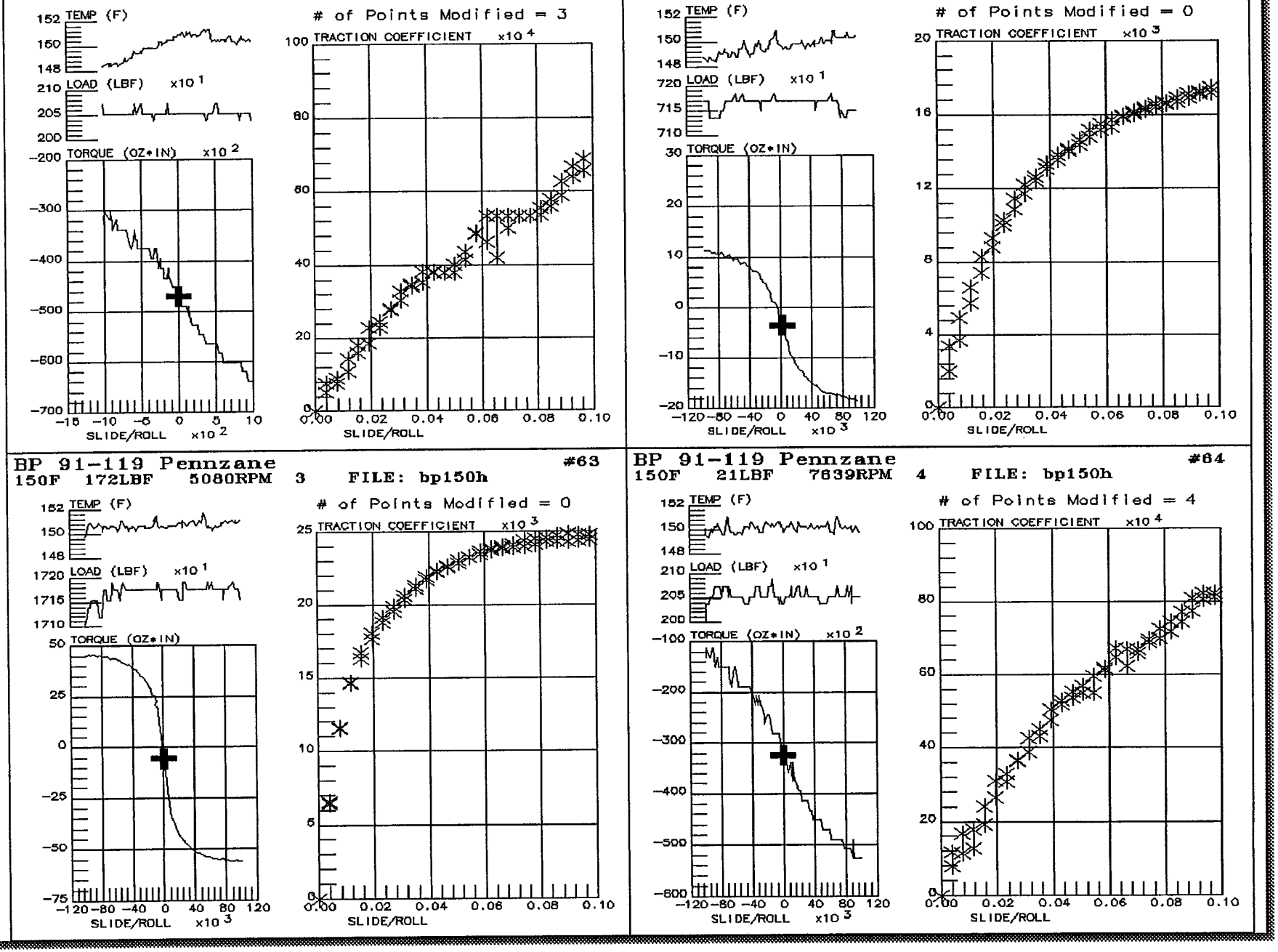


BP 91-119 Pennzane #60
100F 172LBF 2559RPM 15 FILE: bp1001

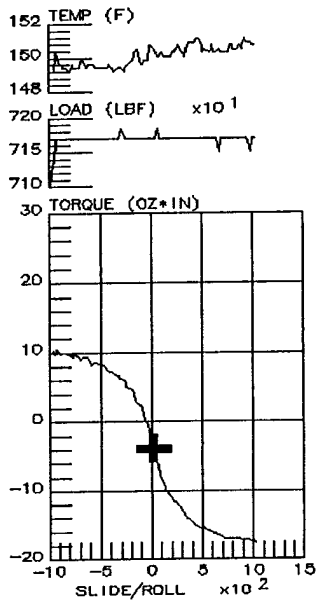


# of Points Modified = 2

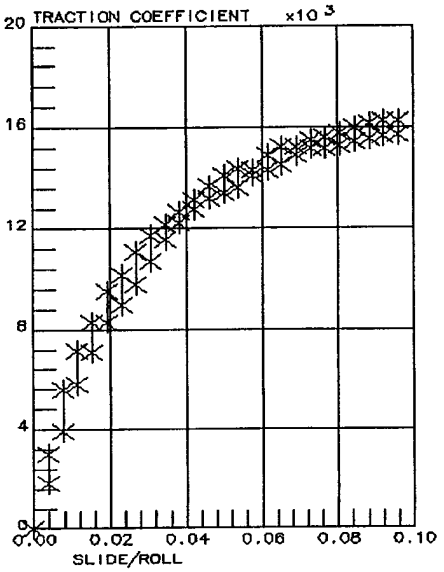



BP 91-119 Pennzane
150F 21LBF 5080RPM 1 FILE: bp150h
#61
# of Points Modified = 3
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN) x10 2
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 4
SLIDE/ROLL
BP 91-119 Pennzane
150F 72LBF 5080RPM 2 FILE: bp150h
#62
# of Points Modified = 0
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 3
TRACTION COEFFICIENT x10 3
SLIDE/ROLL
BP 91-119 Pennzane
150F 172LBF 5080RPM 3 FILE: bp150h
#63
# of Points Modified = 0
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 3
TRACTION COEFFICIENT x10 3
SLIDE/ROLL
BP 91-119 Pennzane
150F 21LBF 7639RPM 4 FILE: bp150h
#64
# of Points Modified = 4
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN) x10 2
SLIDE/ROLL x10 3
TRACTION COEFFICIENT x10 4
SLIDE/ROLL

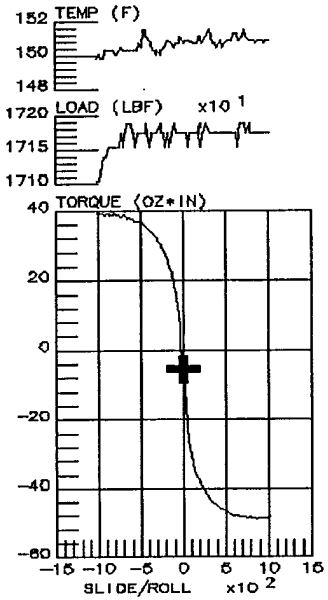
BP 91-119 Pennzane #65
150F 72LBF 7639RPM 5 FILE: bp150h



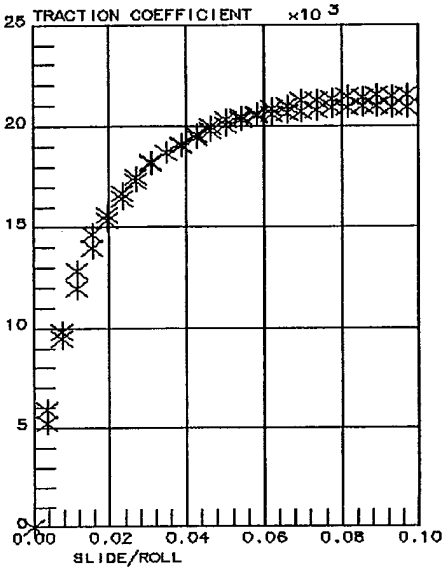
# of Points Modified = 1



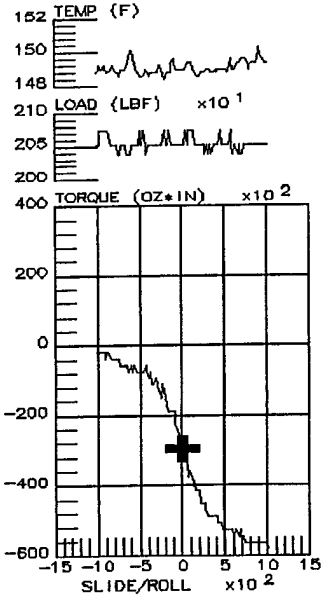
BP 91-119 Pennzane #66
150F 172LBF 7639RPM 6 FILE: bp150h



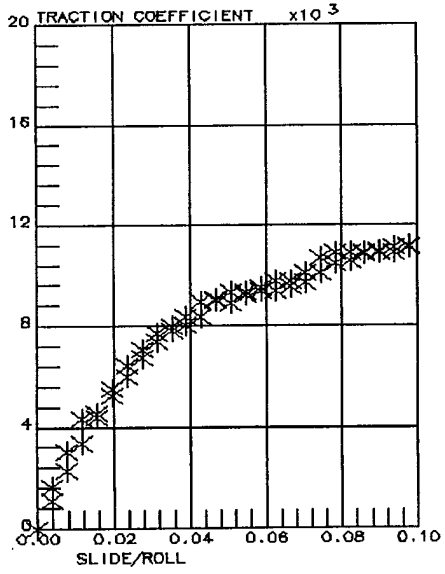
# of Points Modified = 2



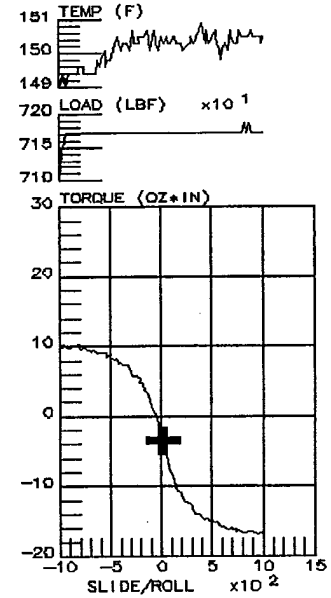
BP 91-119 Pennzane #67
150F 21LBF 10198RPM 7 FILE: bp150h



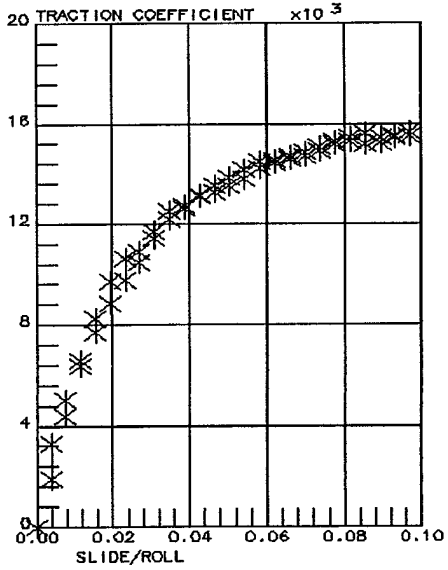
# of Points Modified = 3



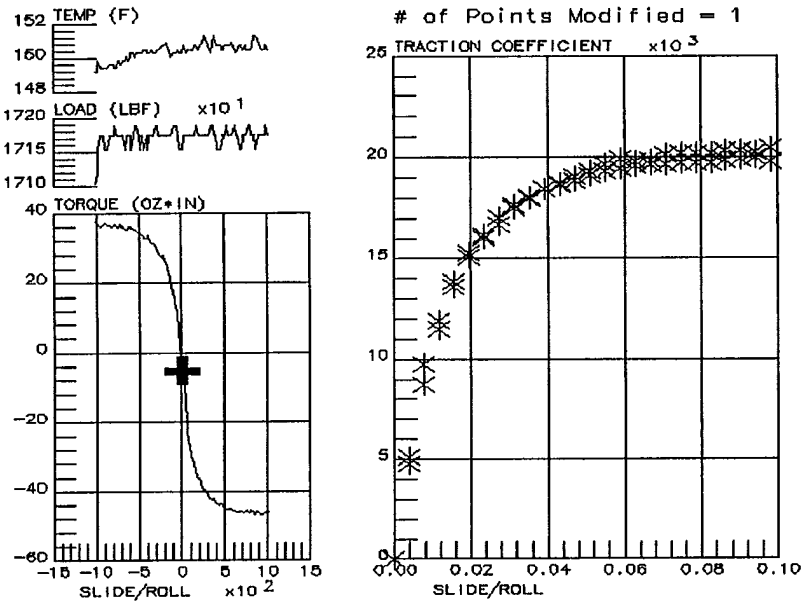
BP 91-119 Pennzane #68
150F 72LBF 10198RPM 8 FILE: bp150h



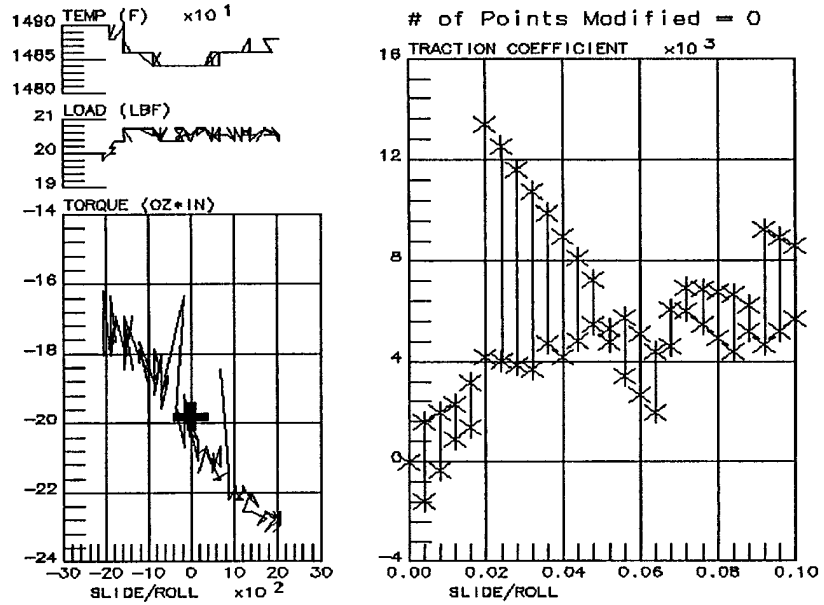
# of Points Modified = 3



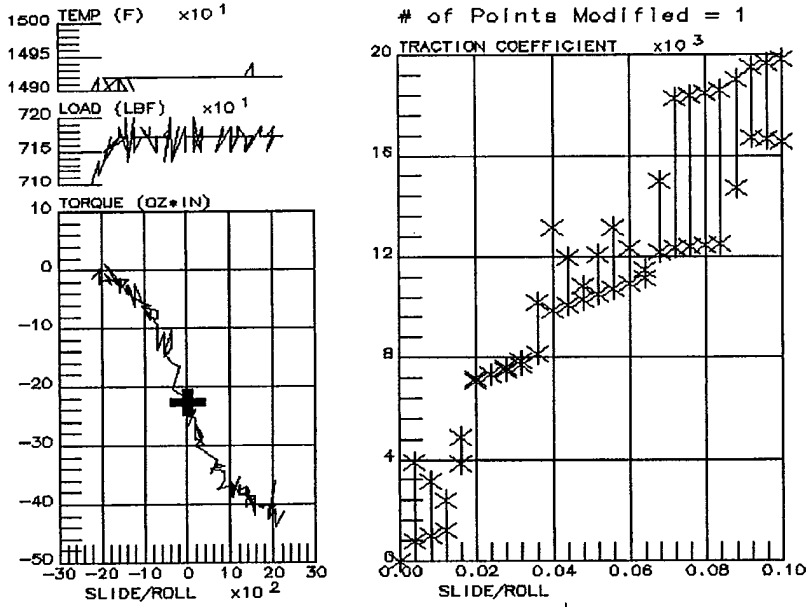
BP 91-119 Pennzane #69
150F 172LBF 10198RPM 9 FILE: bp150h



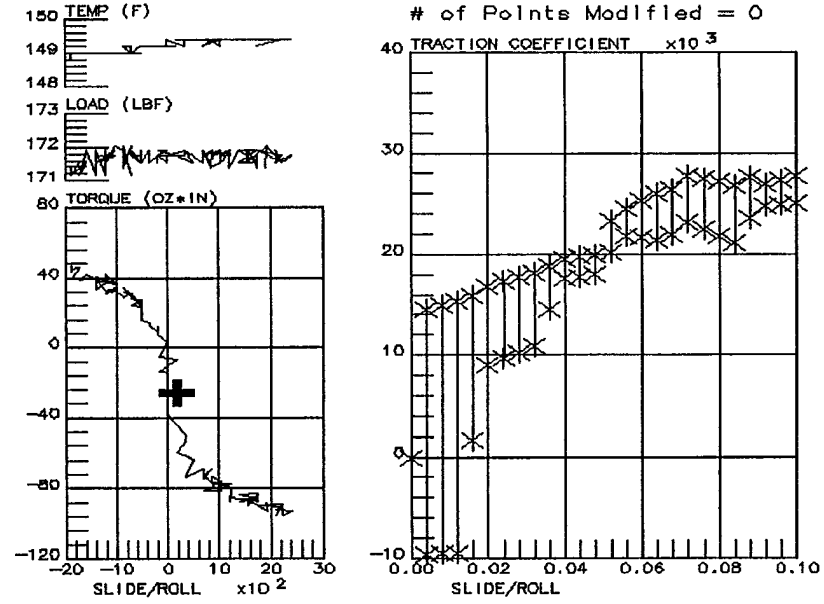
BP 91-119 Pennzane #70
150F 21LBF 76RPM 1 FILE: bp1501



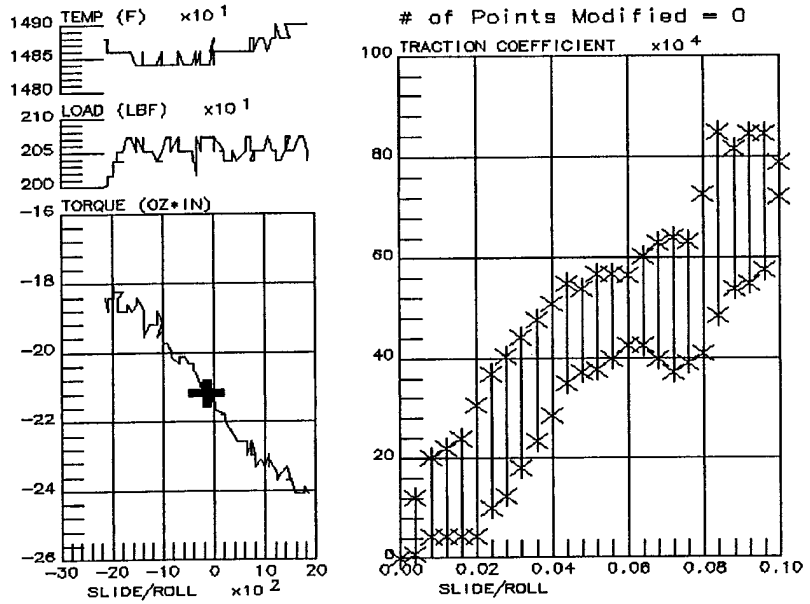
BP 91-119 Pennzane #71
150F 72LBF 76RPM 2 FILE: bp1501



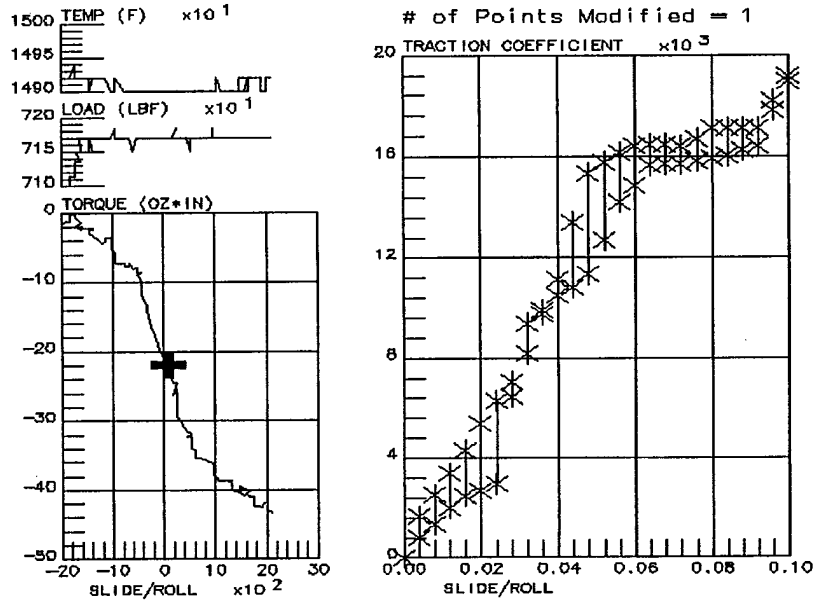
BP 91-119 Pennzane #72
150F 172LBF 76RPM 3 FILE: bp1501



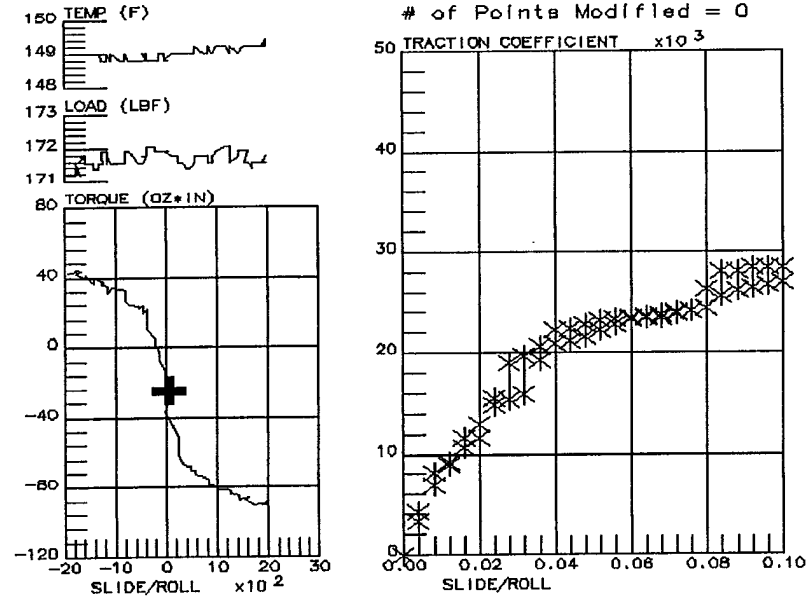
BP 91-119 Pennzane #73
150F 21LBF 152RPM 4 FILE: bp1501



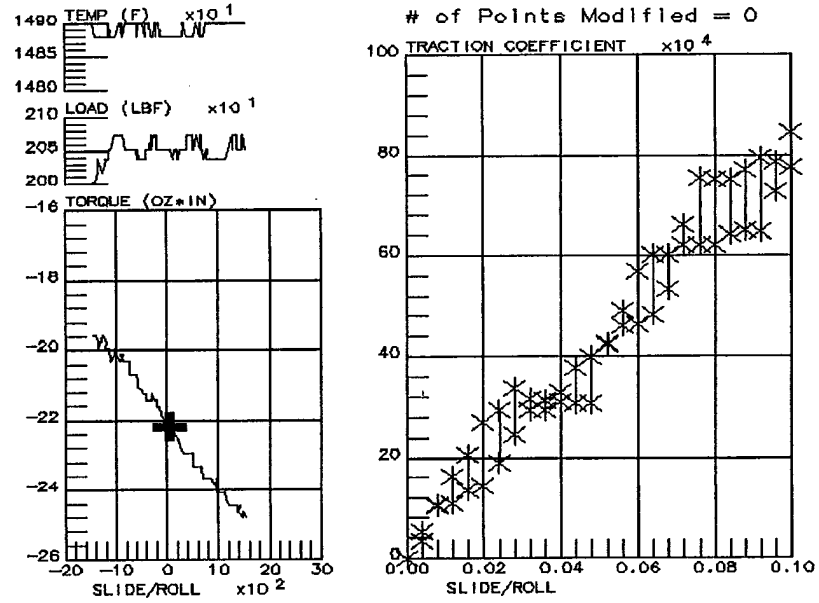
BP 91-119 Pennzane #74
150F 72LBF 152RPM 5 FILE: bp1501



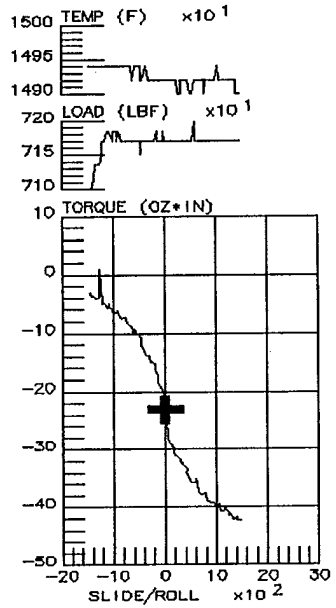
BP 91-119 Pennzane #75
150F 172LBF 152RPM 6 FILE: bp1501



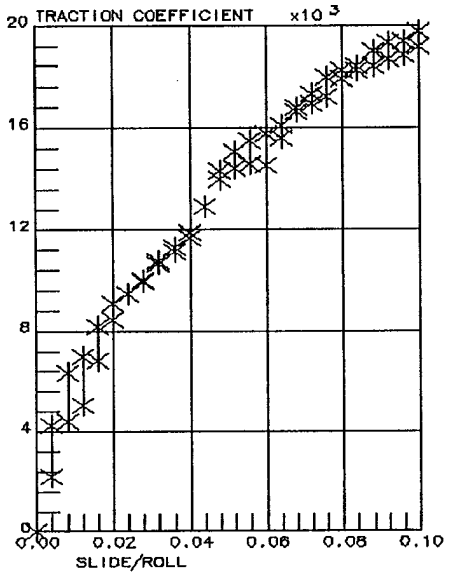
BP 91-119 Pennzane #76
150F 21LBF 343RPM 7 FILE: bp1501



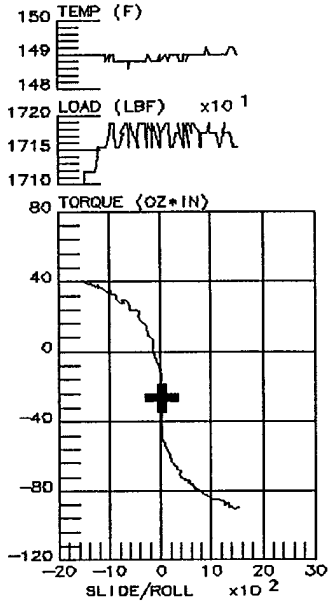
BP 91-119 Pennzane #77
150F 72LBF 343RPM 8 FILE: bp1501



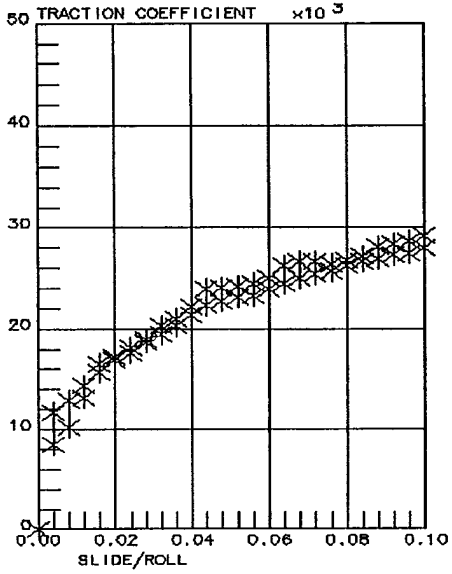
# of Points Modified = 1



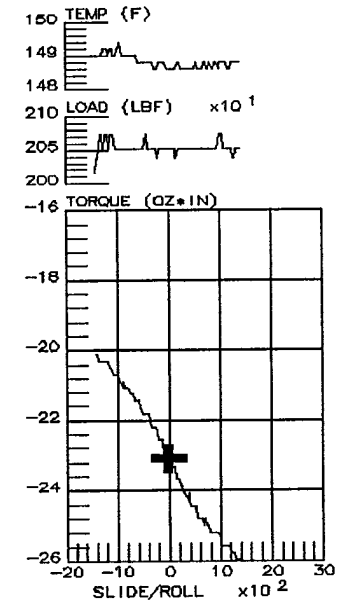
BP 91-119 Pennzane #78
150F 172LBF 343RPM 9 FILE: bp1501



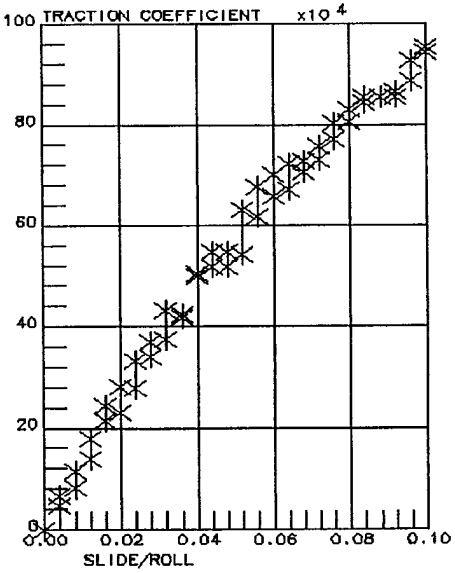
# of Points Modified = 2



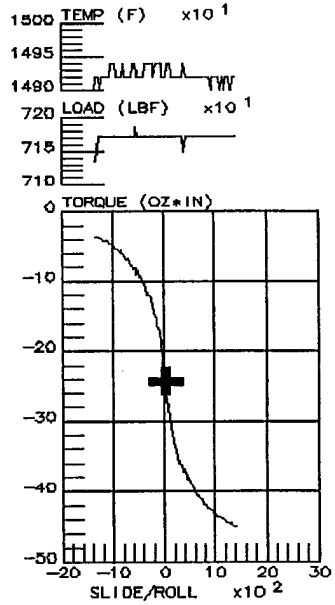
BP 91-119 Pennzane #79
150F 21LBF 1298RPM 10 FILE: bp1501



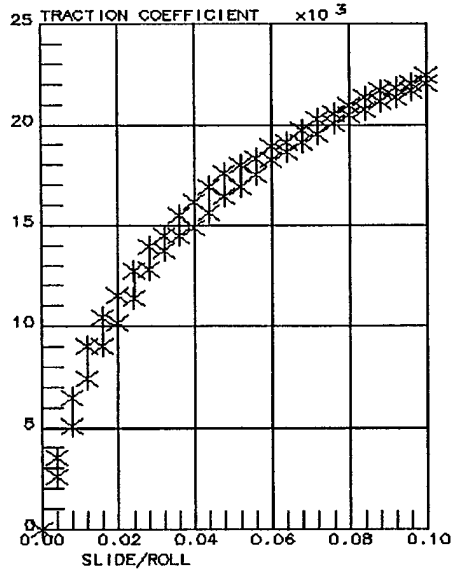
# of Points Modified = 2



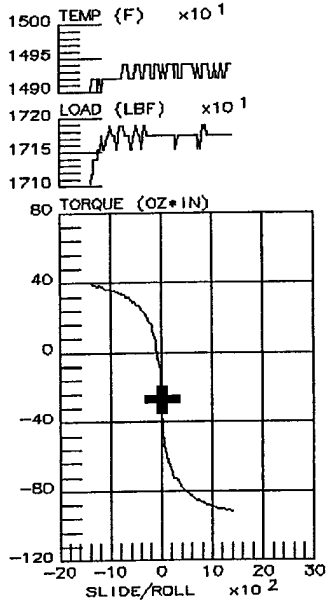
BP 91-119 Pennzane #80
150F 72LBF 1298RPM 11 FILE: bp1501



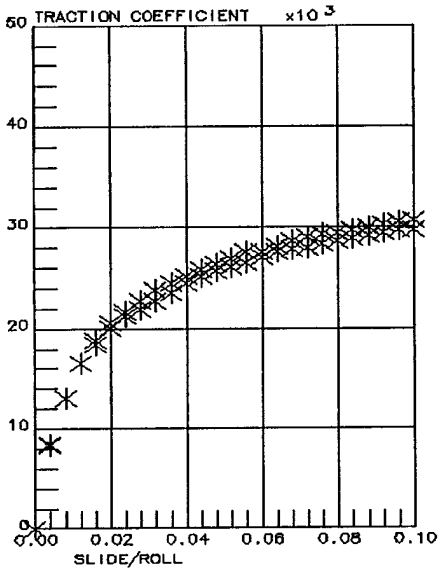
# of Points Modified = 1



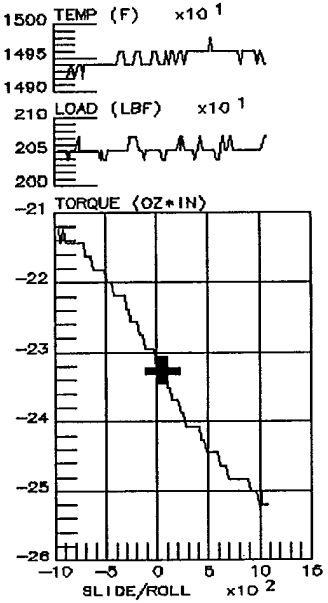
BP 91-119 Pennzane #81
150F 172LBF 1298RPM 12 FILE: bp1501



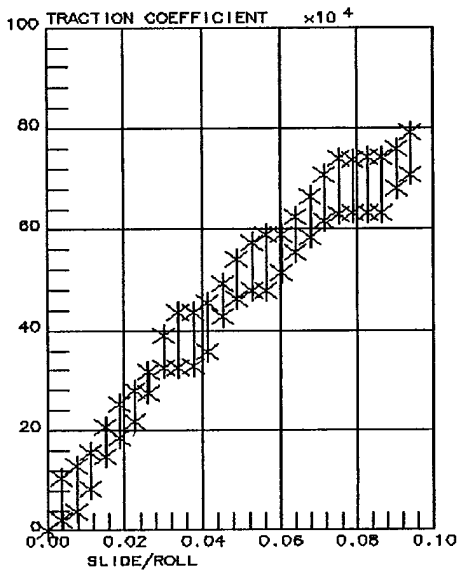
# of Points Modified = 0



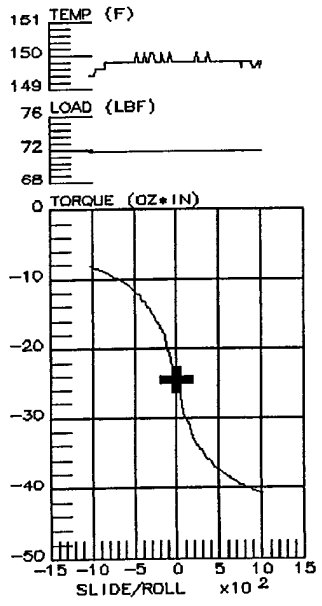
BP 91-119 Pennzane #82
150F 21LBF 2559RPM 13 FILE: bp1501



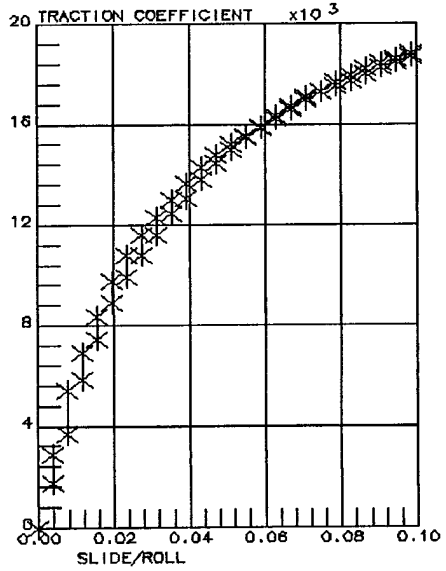
# of Points Modified = 0



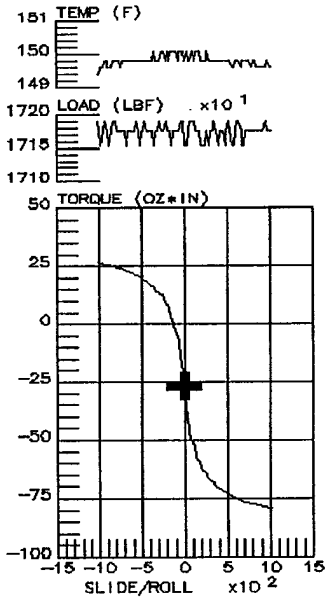
BP 91-119 Pennzane #83
150F 72LBF 2559RPM 14 FILE: bp1501



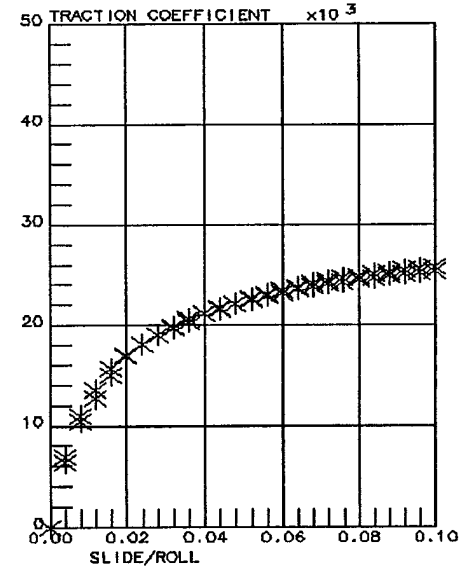
# of Points Modified = 1

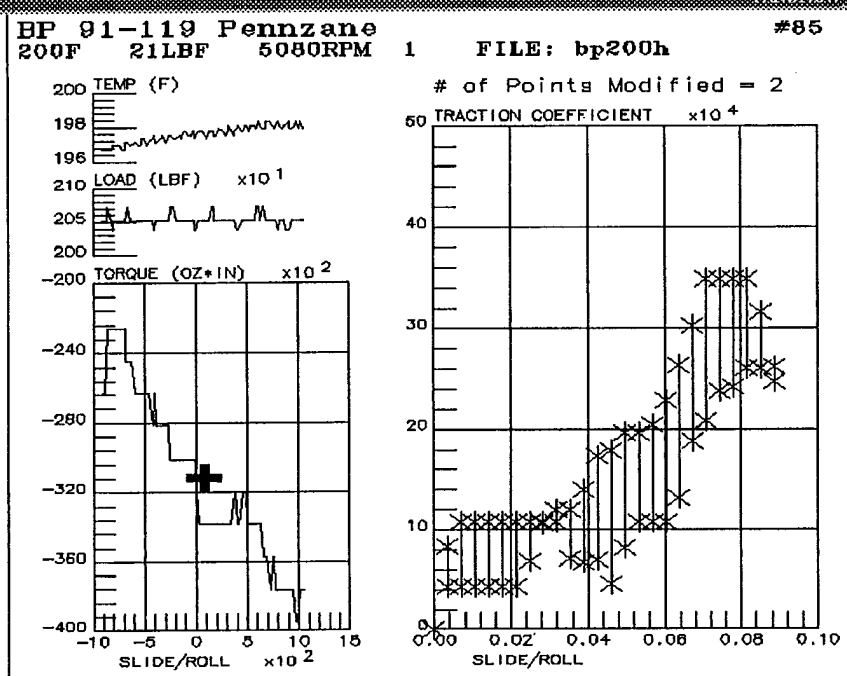


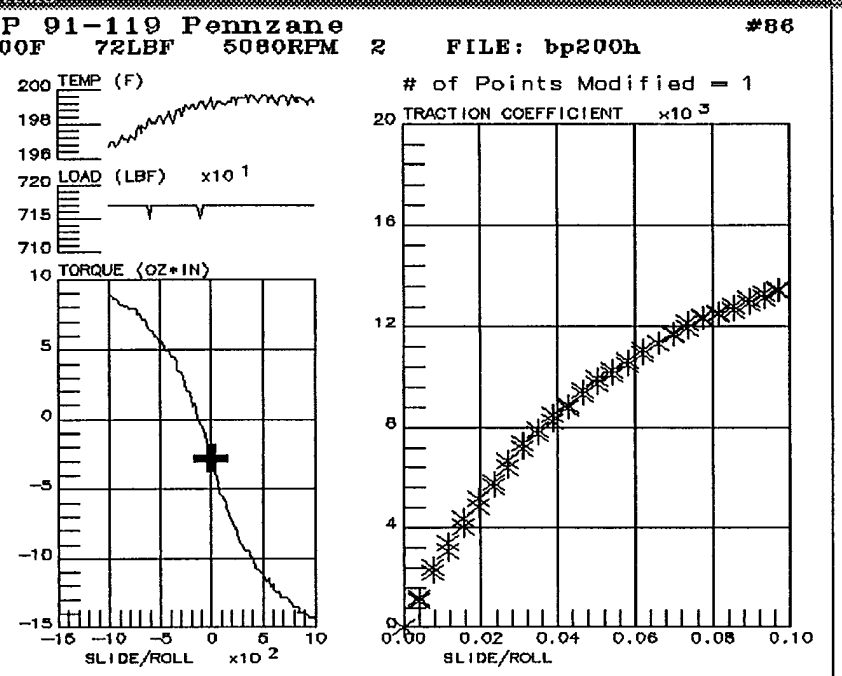
BP 91-119 Pennzane #84
150F 172LBF 2559RPM 15 FILE: bp1501

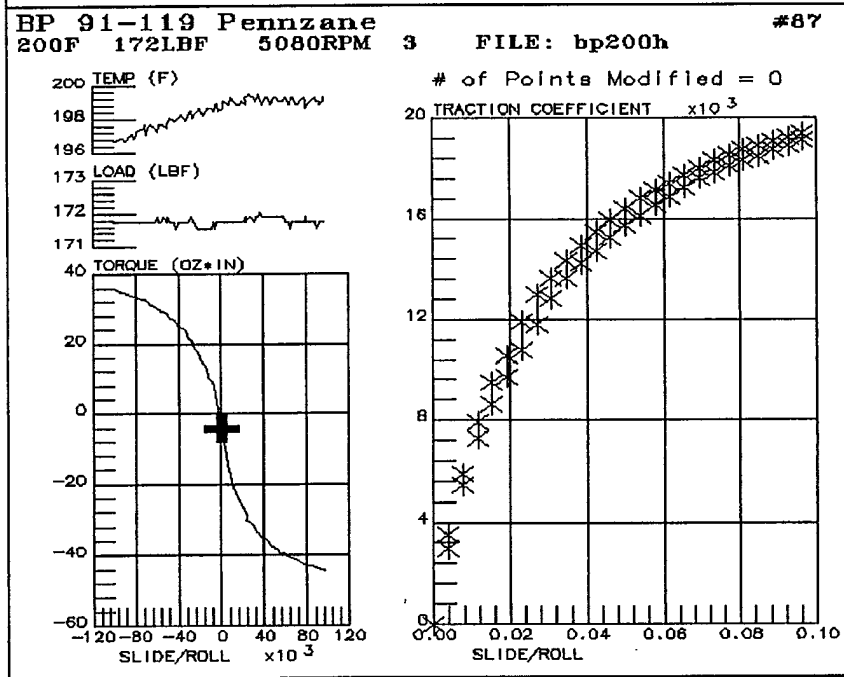


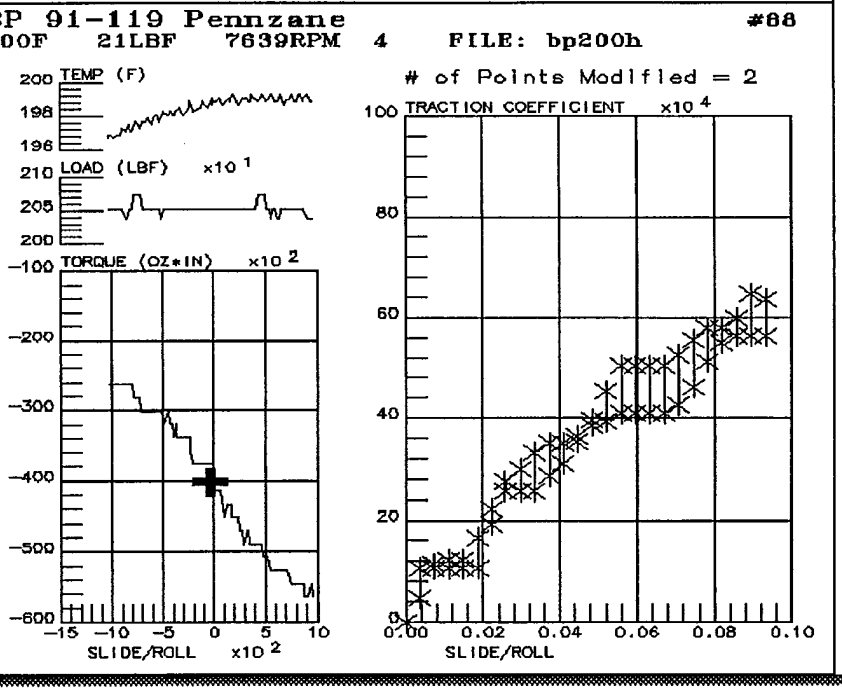
# of Points Modified = 3



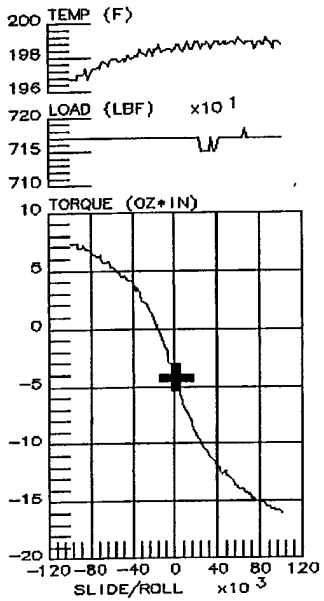

BP 91-119 Pennzane
200F 21LBF 5080RPM 1 FILE: bp200h
#85
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN) x10 2
SLIDE/ROLL x10 2
# of Points Modified = 2
TRACTION COEFFICIENT x10 4
SLIDE/ROLL

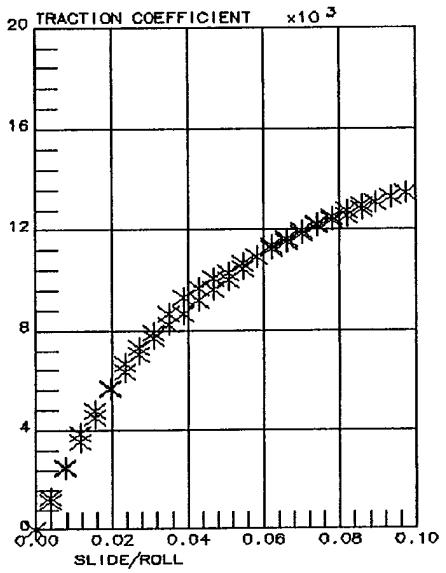

BP 91-119 Pennzane
200F 72LBF 5080RPM 2 FILE: bp200h
#86
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
# of Points Modified = 1
TRACTION COEFFICIENT x10 3
SLIDE/ROLL


BP 91-119 Pennzane
200F 172LBF 5080RPM 3 FILE: bp200h
#87
TEMP (F)
LOAD (LBF)
TORQUE (OZ*IN)
SLIDE/ROLL x10 3
# of Points Modified = 0
TRACTION COEFFICIENT x10 3
SLIDE/ROLL

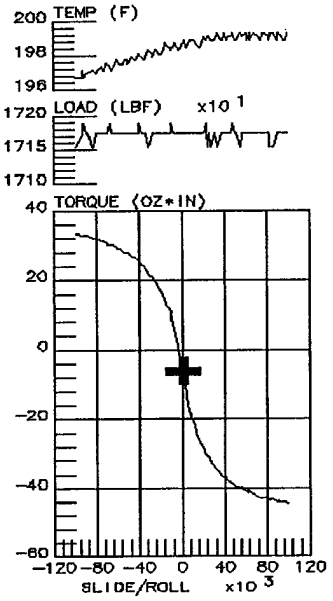

BP 91-119 Pennzane
200F 21LBF 7639RPM 4 FILE: bp200h
#88
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN) x10 2
SLIDE/ROLL x10 2
# of Points Modified = 2
TRACTION COEFFICIENT x10 4
SLIDE/ROLL

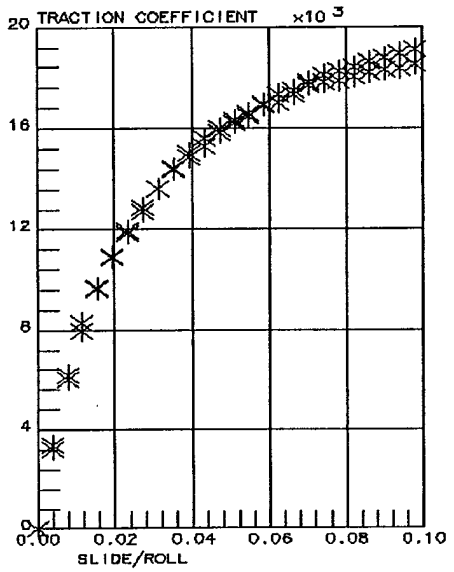
BP 91-119 Pennzane #89
200F 72LBF 7639RPM 5 FILE: bp200h
# of Points Modified = 2



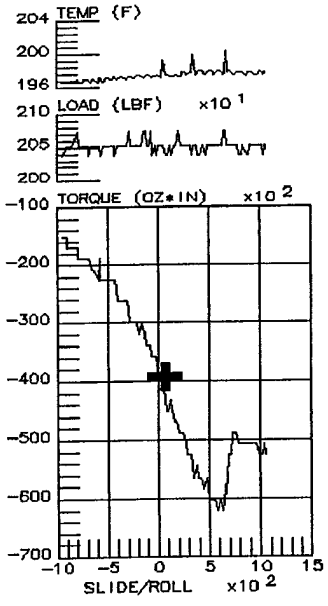


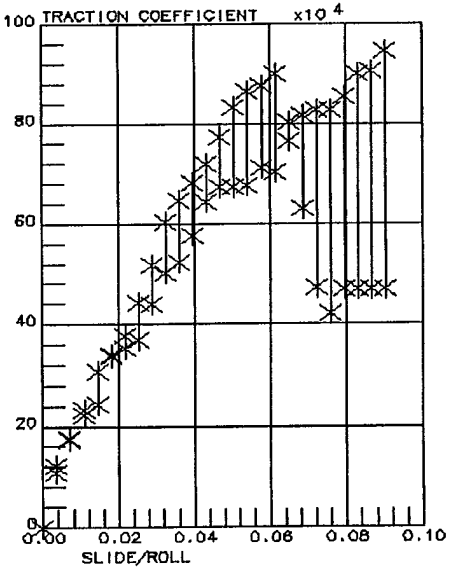
BP 91-119 Pennzane #90
200F 172LBF 7639RPM 6 FILE: bp200h
# of Points Modified = 2



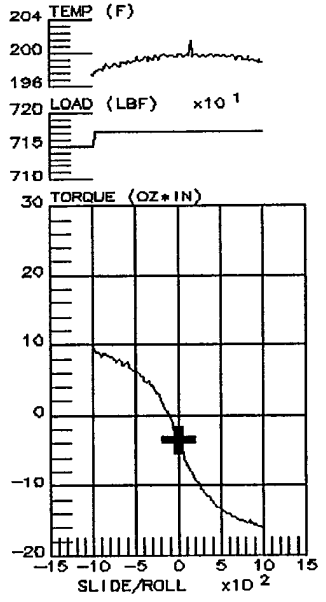


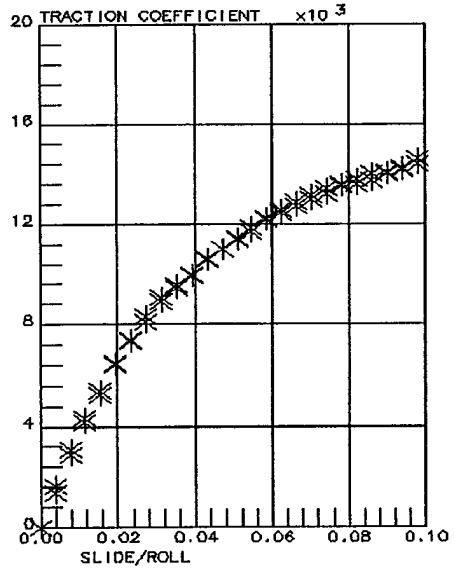
BP 91-119 Pennzane #91
200F 21LBF 10198RPM 7 FILE: bp200h
# of Points Modified = 3



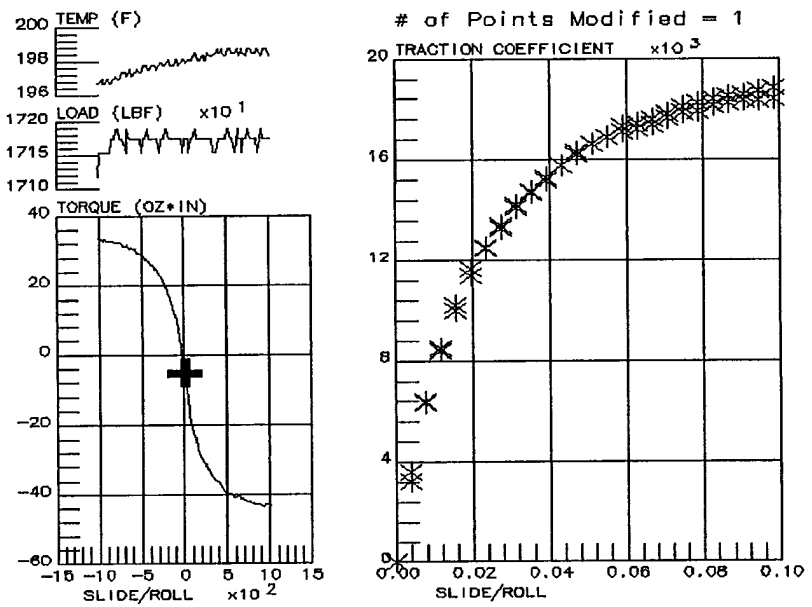


BP 91-119 Pennzane #92
200F 72LBF 10198RPM 8 FILE: bp200h
# of Points Modified = 2



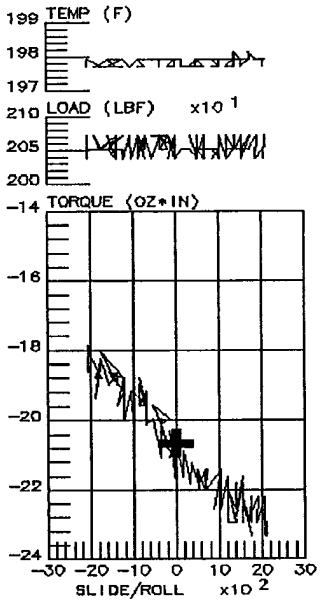


BP 91-119 Pennzane #93
200F 172LBF 10198RPM 9 FILE: bp200h

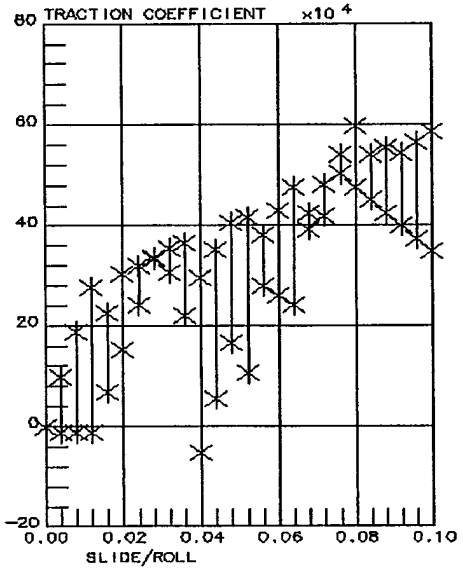


# of Points Modified = 1

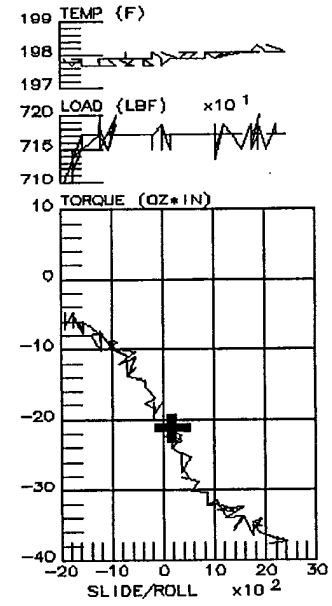
BP 91-119 Pennzane #94
200F 21LBF 76RPM 1 FILE: bp2001



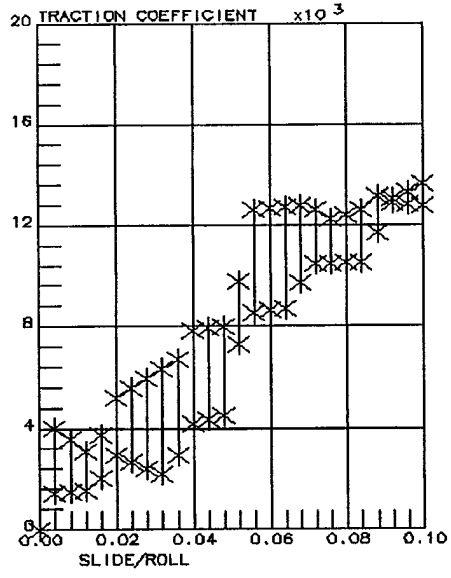
# of Points Modified = 0



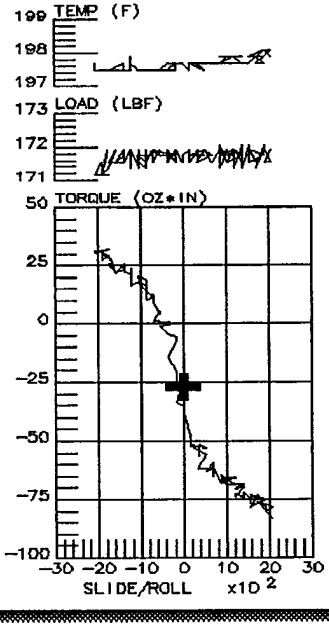
BP 91-119 Pennzane #95
200F 72LBF 76RPM 2 FILE: bp2001



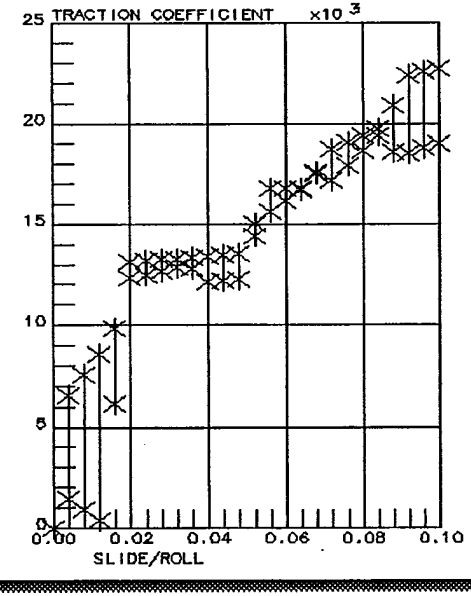
# of Points Modified = 1



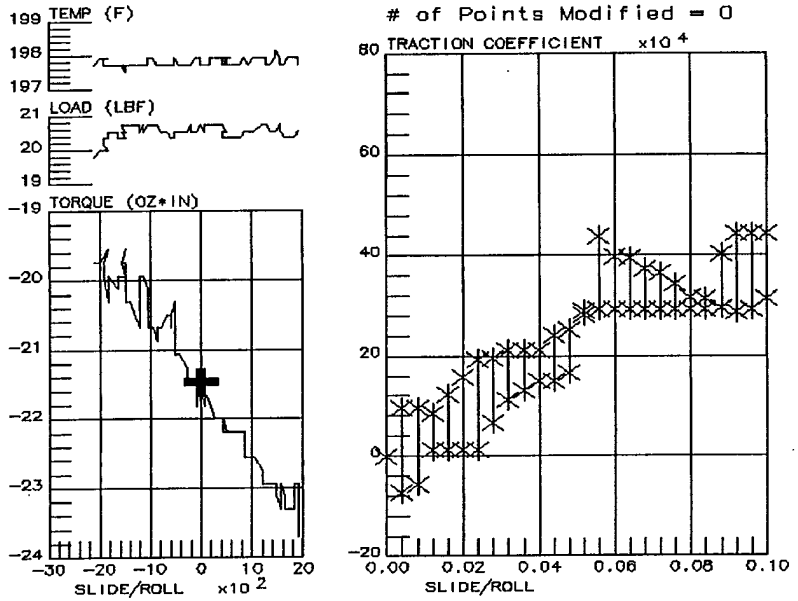
BP 91-119 Pennzane #96
200F 172LBF 76RPM 3 FILE: bp2001



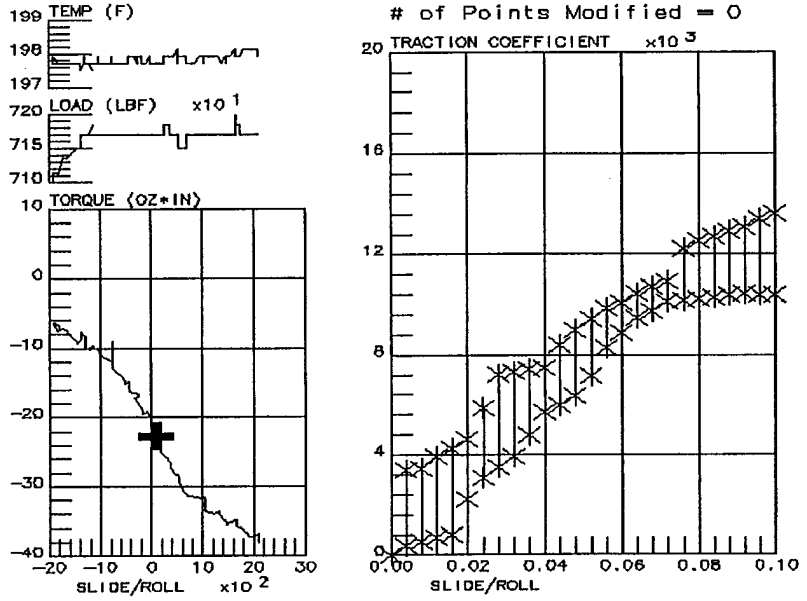
# of Points Modified = 0



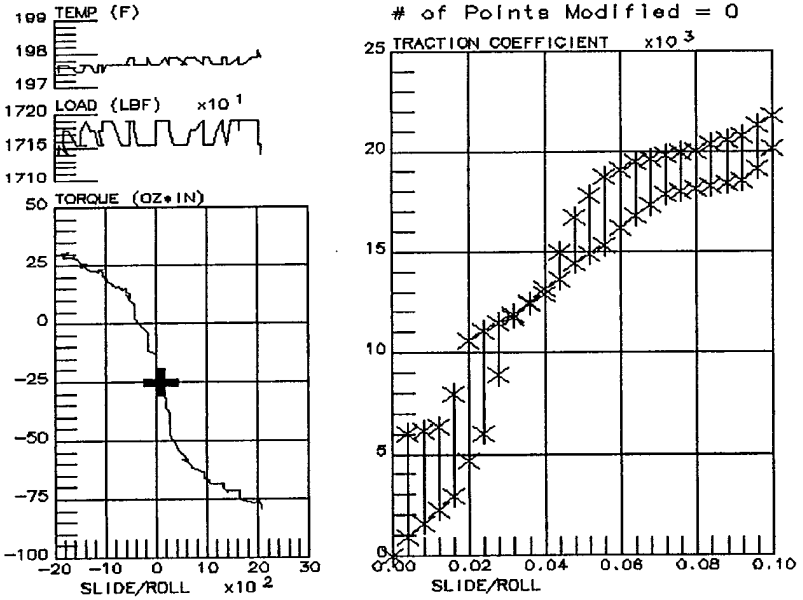
BP 91-119 Pennzane #97
200F 21LBF 152RPM 4 FILE: bp2001



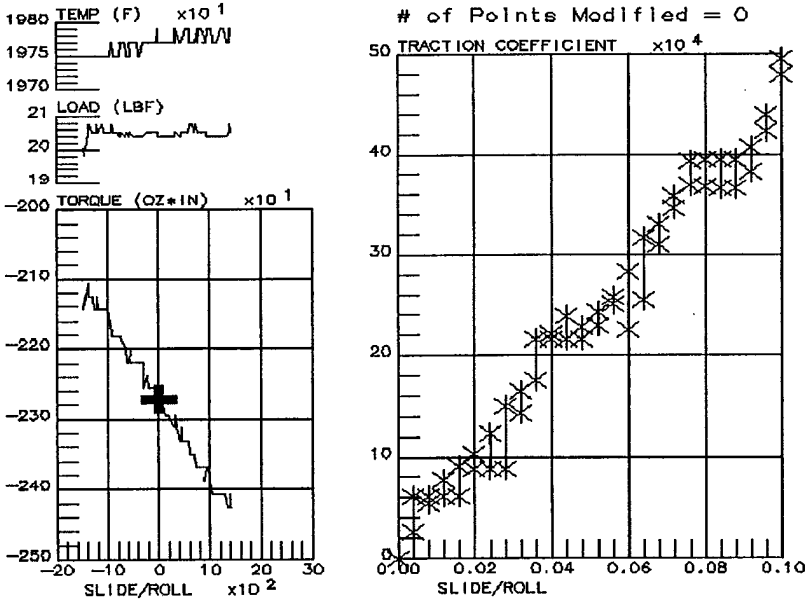
BP 91-119 Pennzane #98
200F 72LBF 152RPM 5 FILE: bp2001



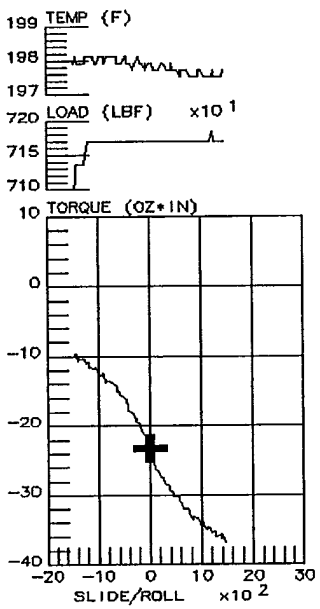
BP 91-119 Pennzane #99
200F 172LBF 152RPM 6 FILE: bp2001



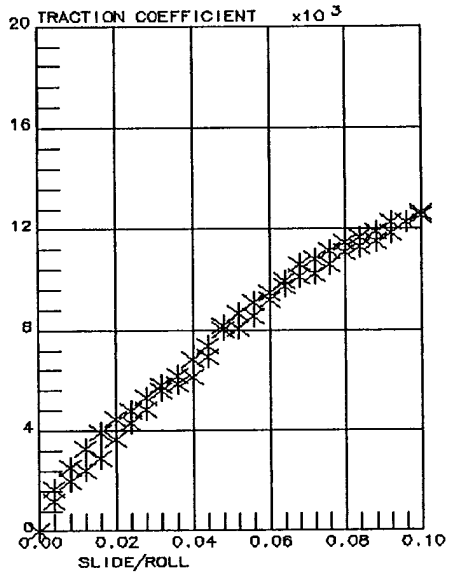
BP 91-119 Pennzane #100
200F 21LBF 343RPM 7 FILE: bp2001



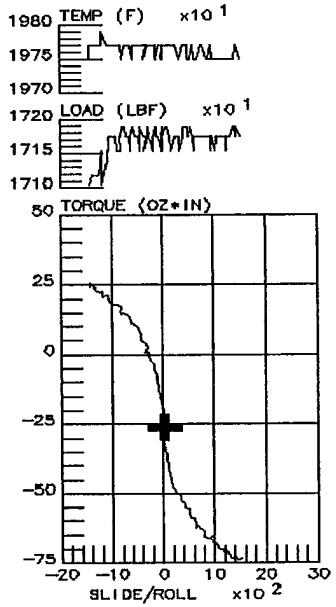
BP 91-119 Pennzane #101
200F 72LBF 343RPM 8 FILE: bp2001



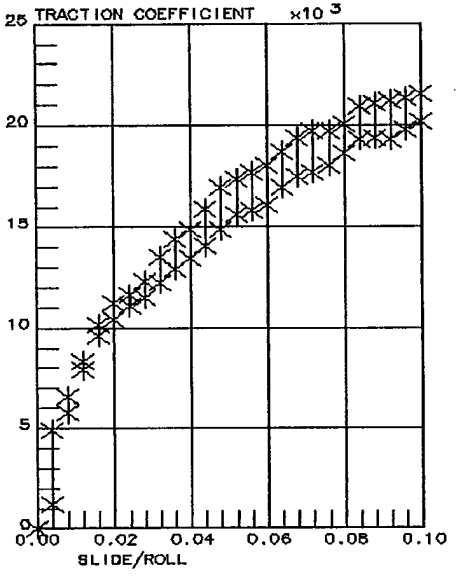
# of Points Modified = 1



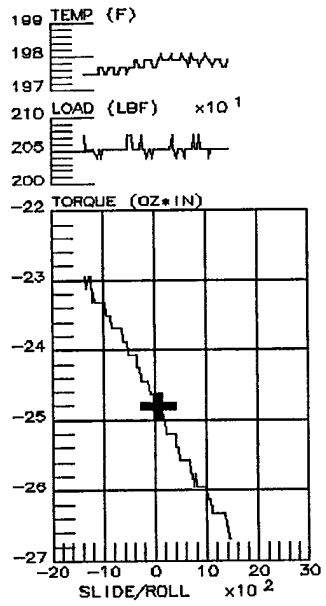
BP 91-119 Pennzane #102
200F 172LBF 343RPM 9 FILE: bp2001



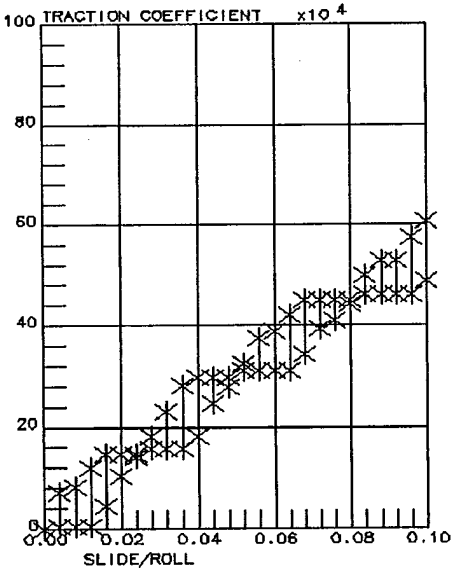
# of Points Modified = 0



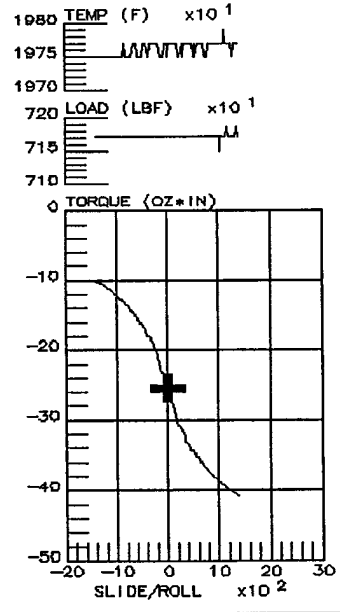
BP 91-119 Pennzane #103
200F 21LBF 1298RPM 10 FILE: bp2001



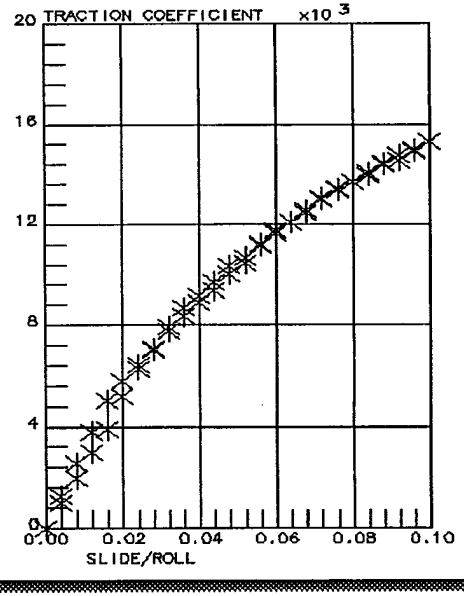
# of Points Modified = 0



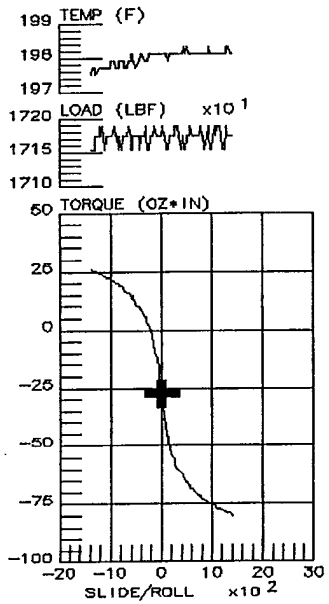
BP 91-119 Pennzane #104
200F 72LBF 1298RPM 11 FILE: bp2001



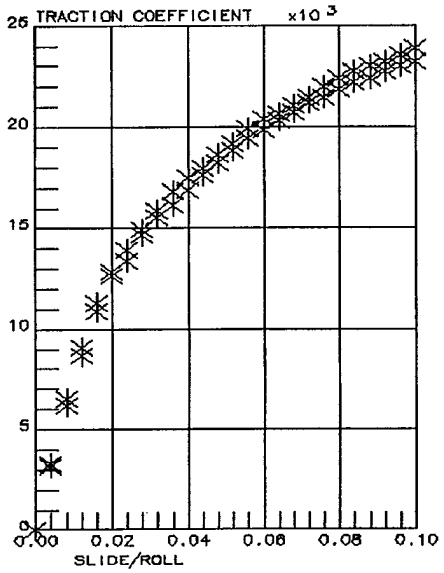
# of Points Modified = 1



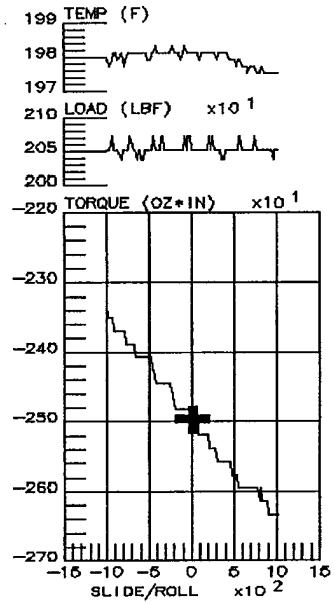
BP 91-119 Pennzane #105
200F 172LBF 1298RPM 12 FILE: bp2001



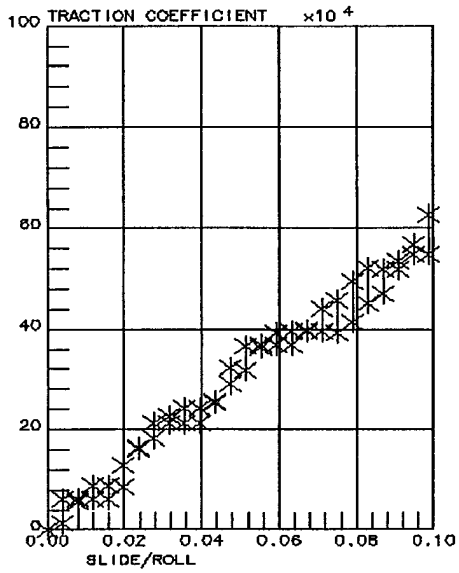
# of Points Modified = 1



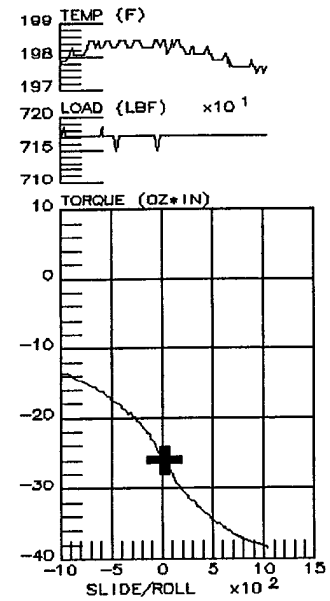
BP 91-119 Pennzane #106
200F 21LBF 2559RPM 13 FILE: bp2001



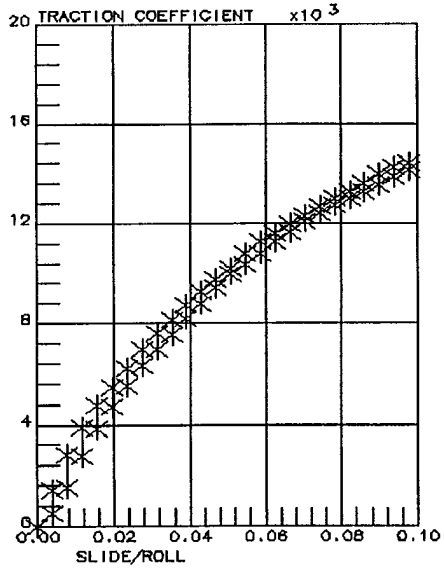
# of Points Modified = 2



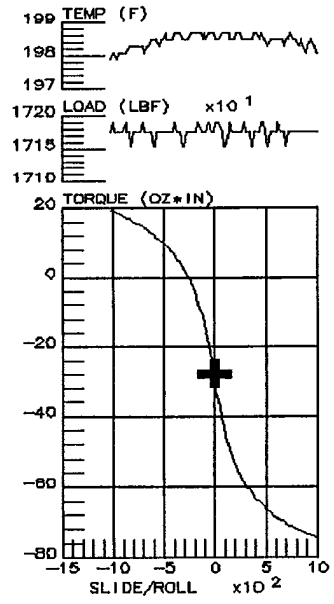
BP 91-119 Pennzane #107
200F 72LBF 2559RPM 14 FILE: bp2001



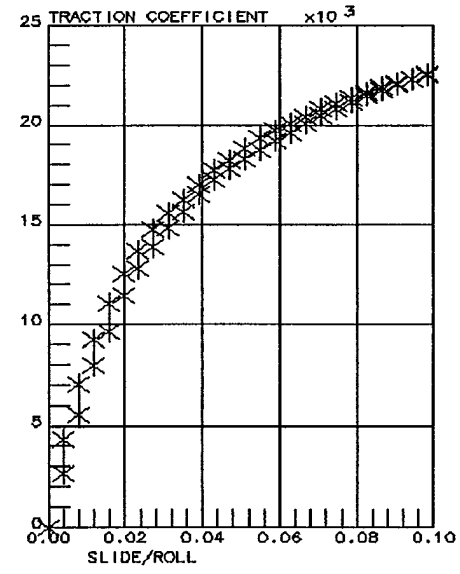
# of Points Modified = 4

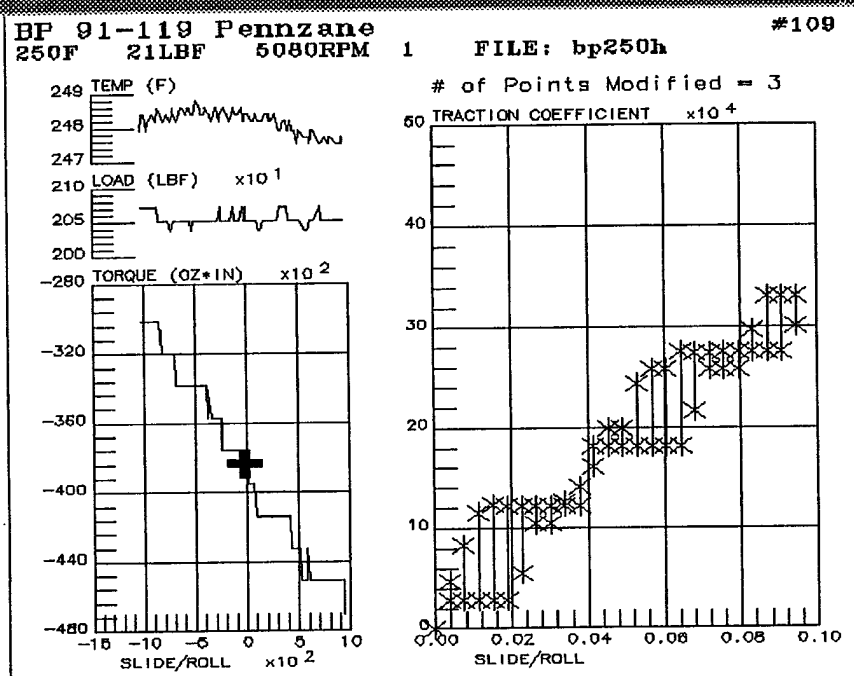


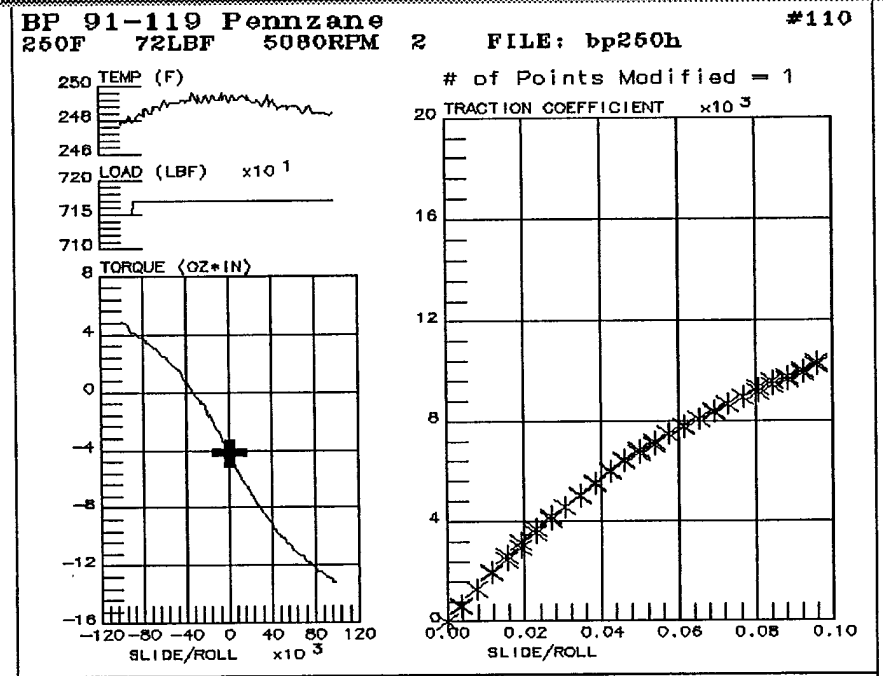
BP 91-119 Pennzane #108
200F 172LBF 2559RPM 15 FILE: bp2001

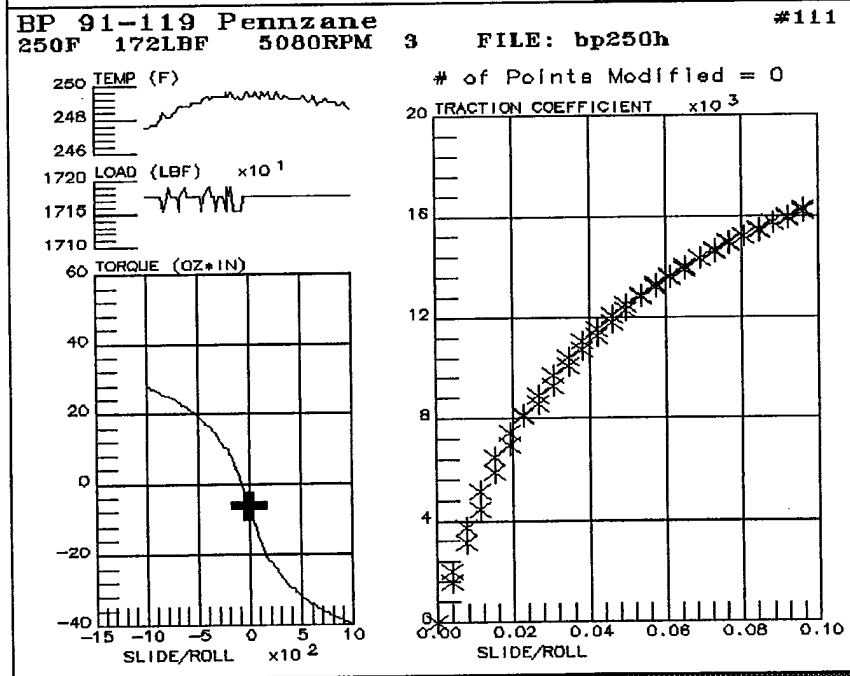


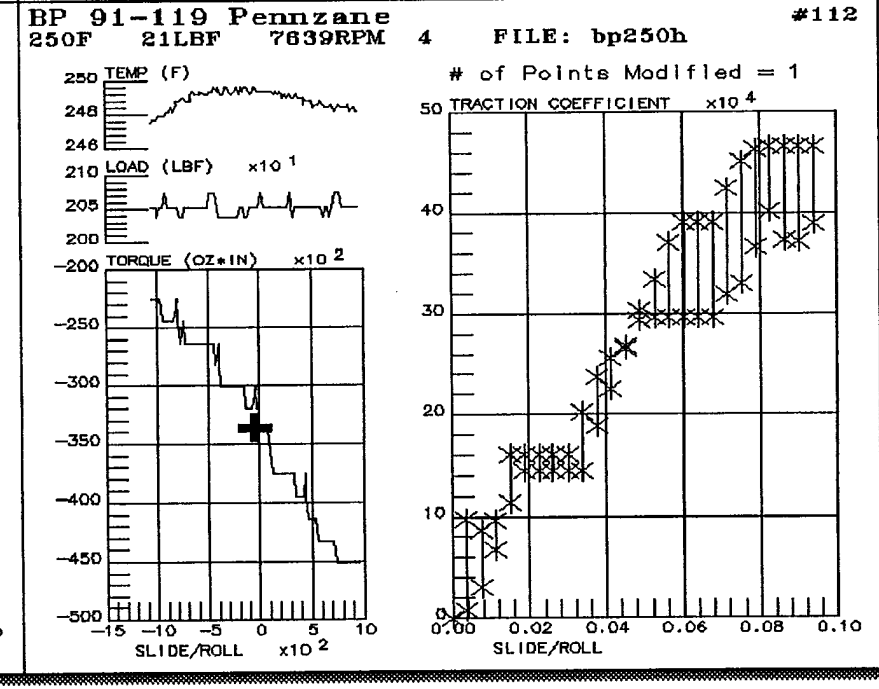
# of Points Modified = 3



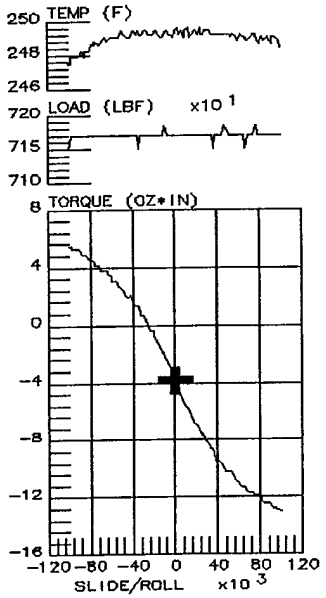

BP 91-119 Pennzane
250F 21LBF 5080RPM 1 FILE: bp250h
#109
# of Points Modified = 3
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN) x10 2
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 4
SLIDE/ROLL


BP 91-119 Pennzane
250F 72LBF 5080RPM 2 FILE: bp250h
#110
# of Points Modified = 1
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 3
TRACTION COEFFICIENT x10 3
SLIDE/ROLL

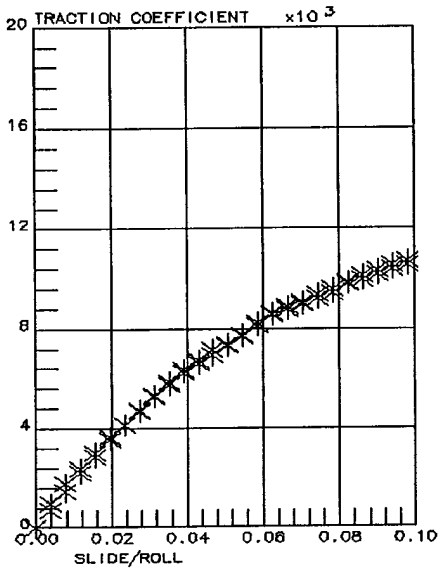

BP 91-119 Pennzane
250F 172LBF 5080RPM 3 FILE: bp250h
#111
# of Points Modified = 0
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL


BP 91-119 Pennzane
250F 21LBF 7639RPM 4 FILE: bp250h
#112
# of Points Modified = 1
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN) x10 2
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 4
SLIDE/ROLL

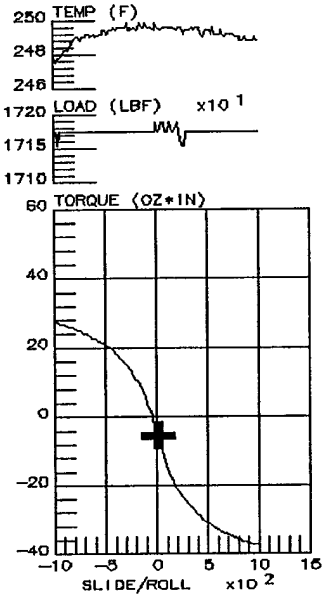
BP 91-119 Pennzane #113
250F 72LBF 7639RPM 5 FILE: bp250h



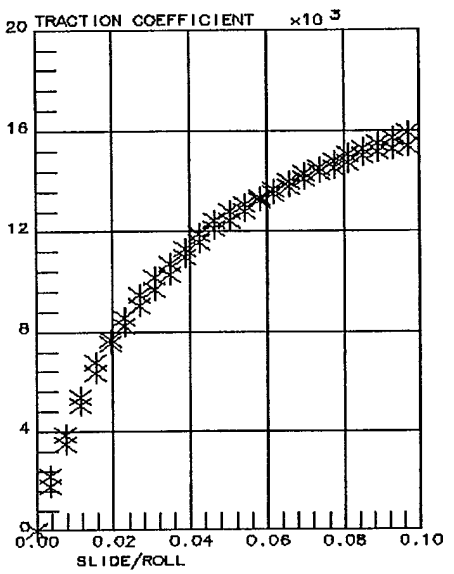
# of Points Modified = 2



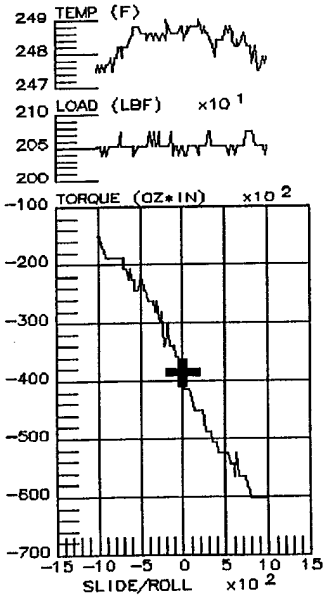
BP 91-119 Pennzane #114
250F 172LBF 7639RPM 6 FILE: bp250h



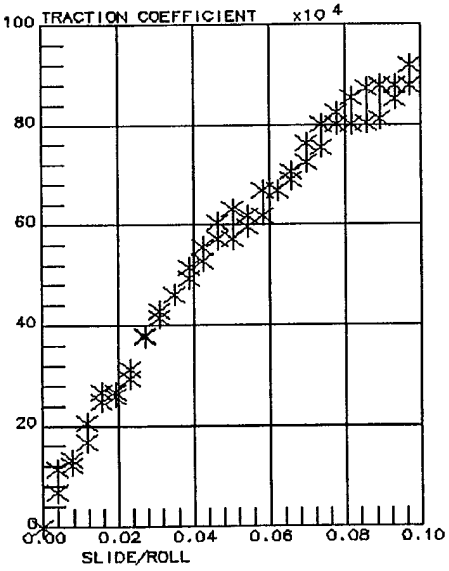
# of Points Modified = 0



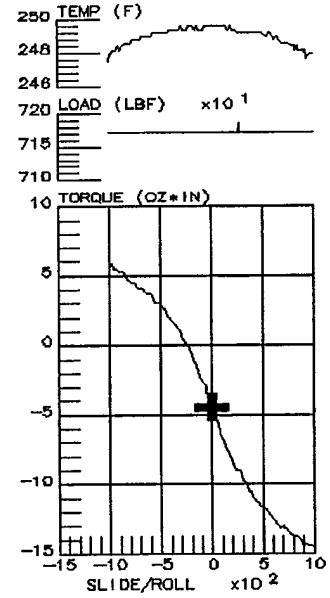
BP 91-119 Pennzane #115
250F 21LBF 10198RPM 7 FILE: bp250h



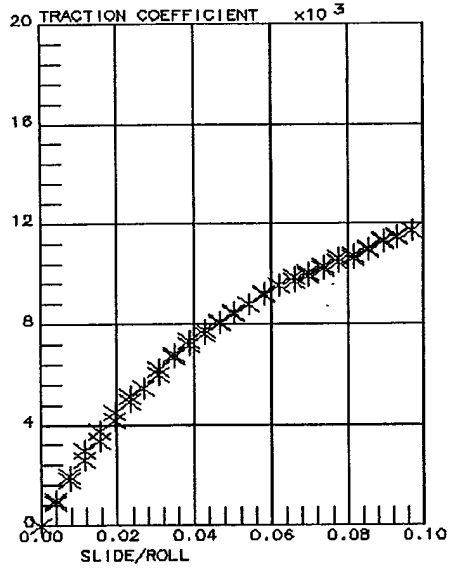
# of Points Modified = 1



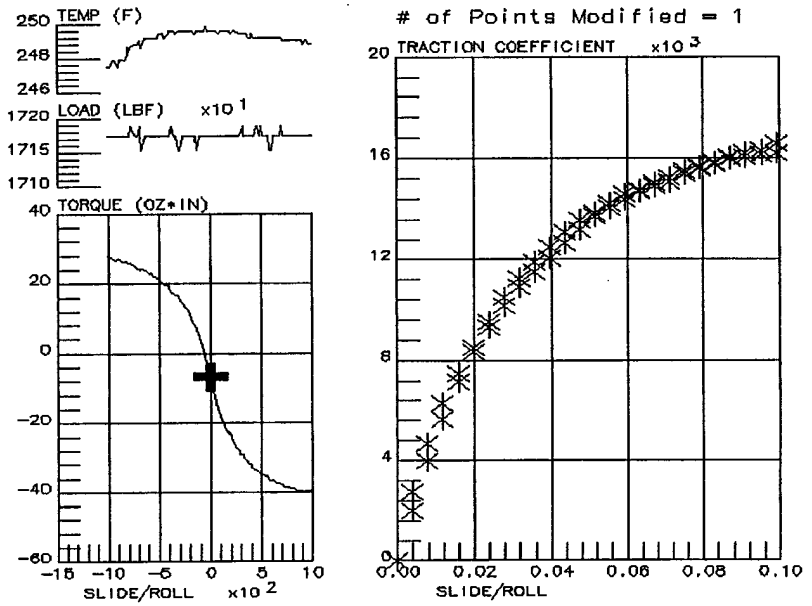
BP 91-119 Pennzane #116
250F 72LBF 10198RPM 8 FILE: bp250h



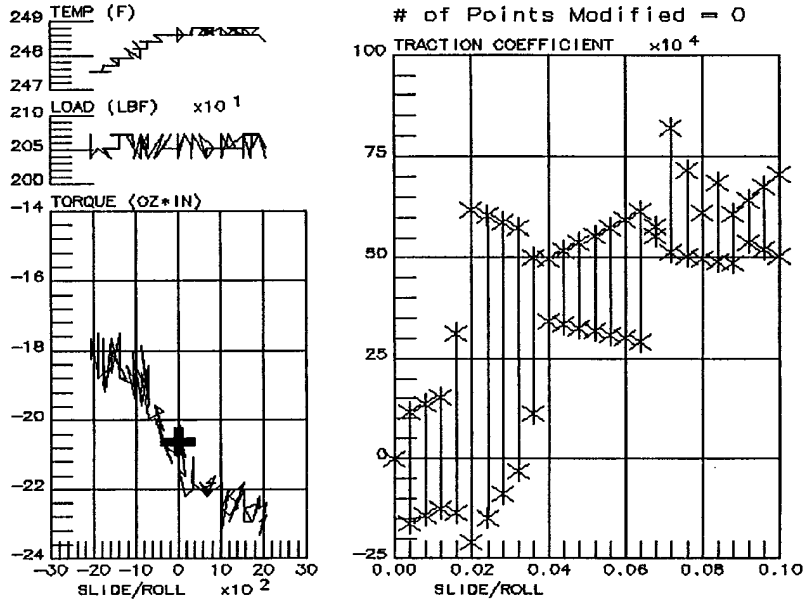
# of Points Modified = 4



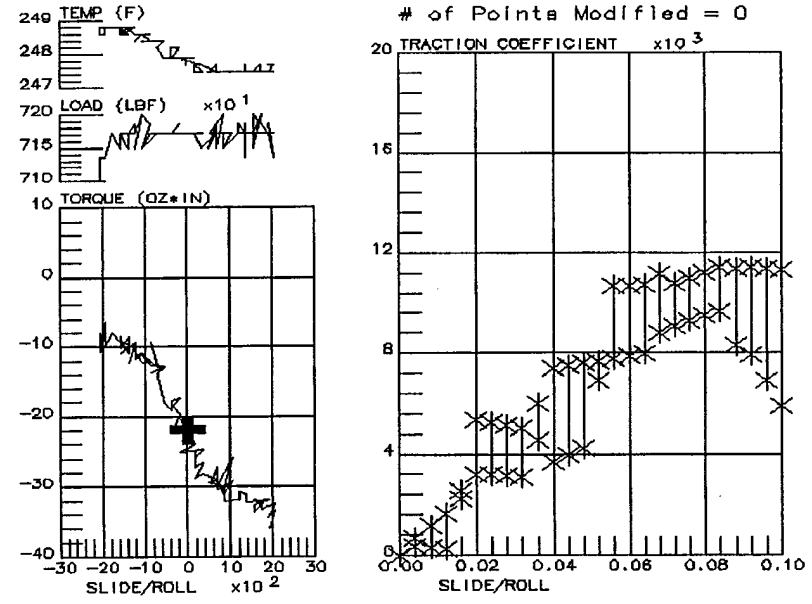
BP 91-119 Pennzane #117
250F 172LBF 10198RPM 9 FILE: bp250h



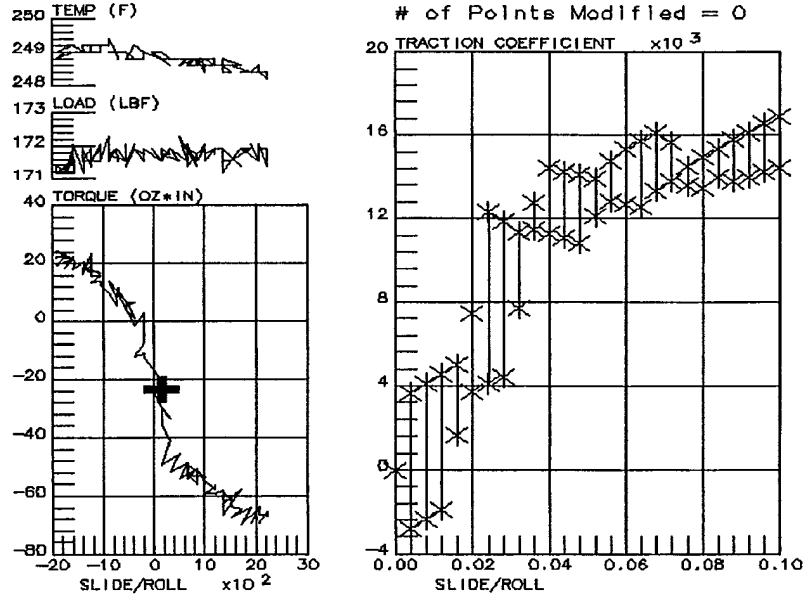
BP 91-119 Pennzane #118
250F 21LBF 76RPM 1 FILE: bp2501

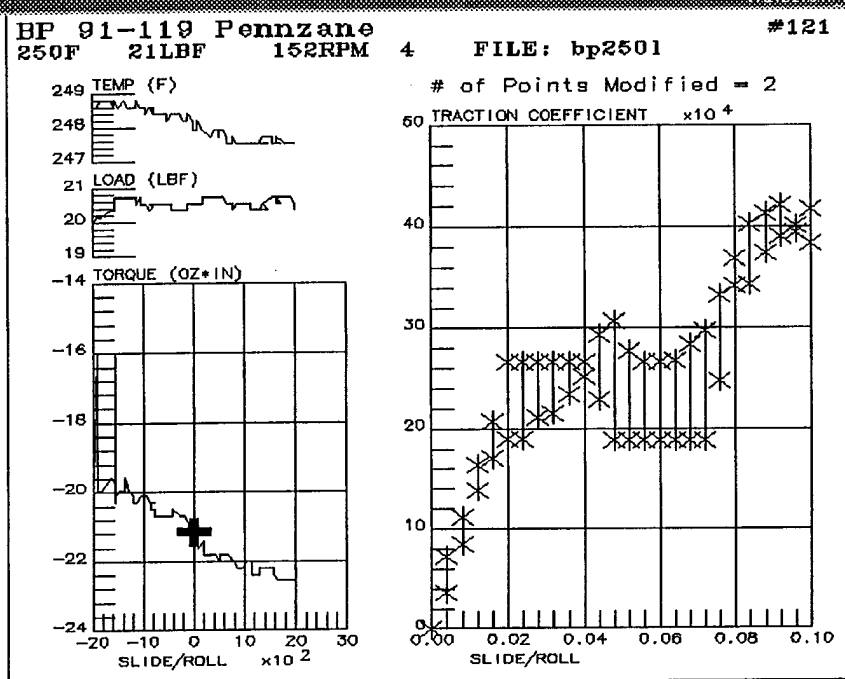


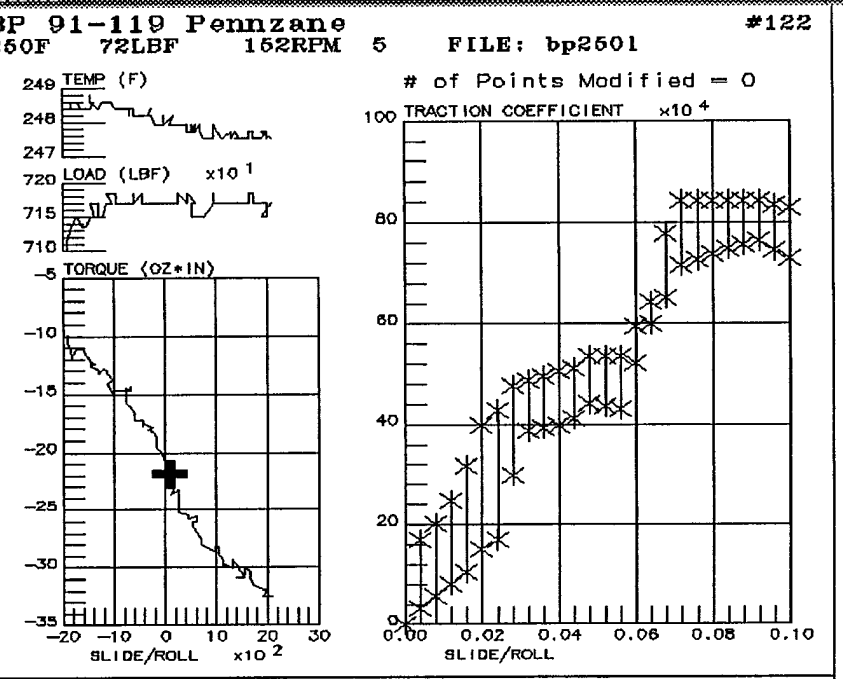
BP 91-119 Pennzane #119
250F 72LBF 76RPM 2 FILE: bp2501

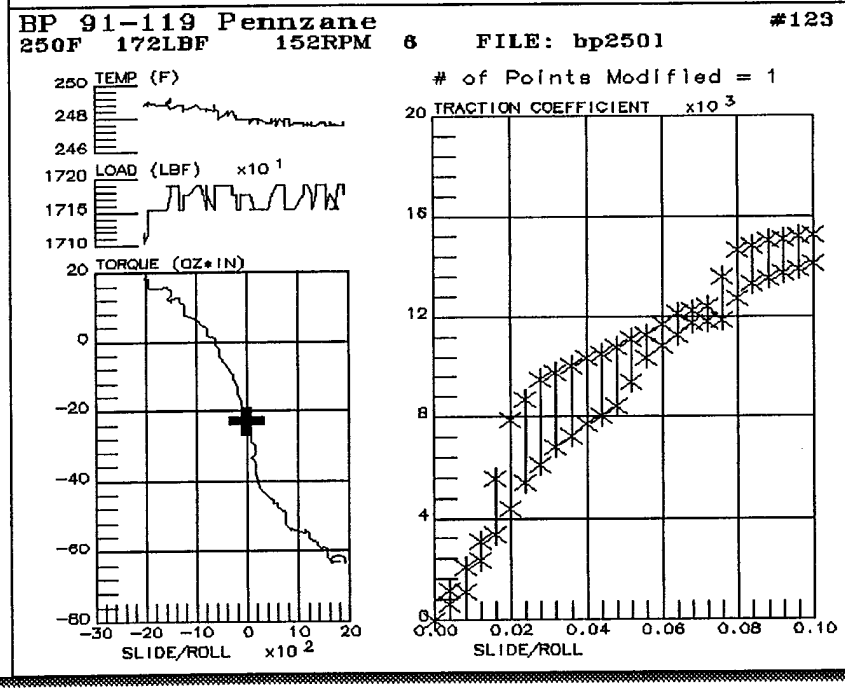


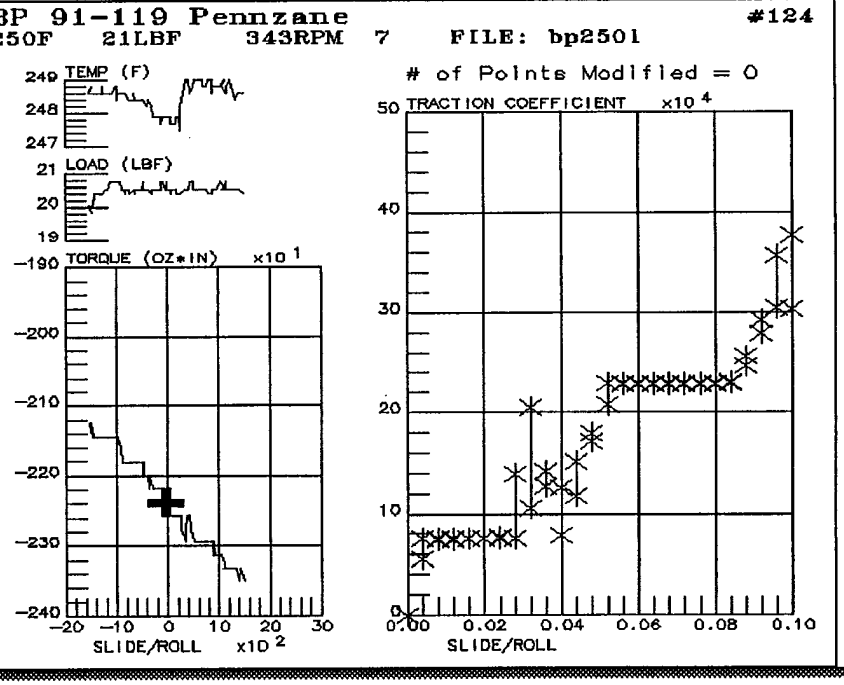
BP 91-119 Pennzane #120
250F 172LBF 76RPM 3 FILE: bp2501



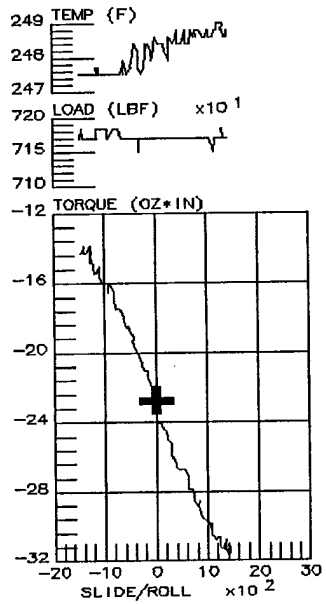

BP 91-119 Pennzane
250F 21LBF 152RPM
#121
4 FILE: bp2501
# of Points Modified = 2
TEMP (F)
LOAD (LBF)
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 4
SLIDE/ROLL


BP 91-119 Pennzane
250F 72LBF 152RPM
#122
5 FILE: bp2501
# of Points Modified = 0
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 4
SLIDE/ROLL

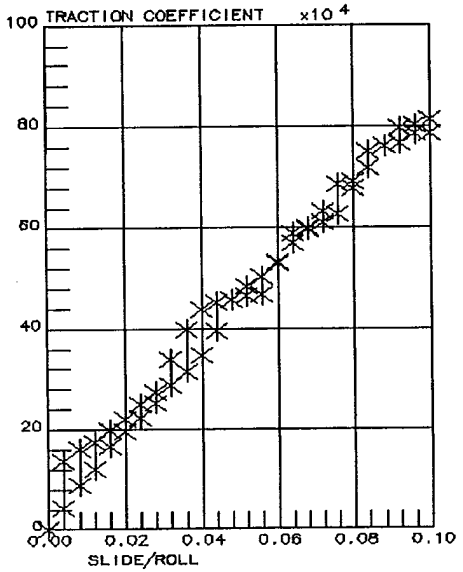

BP 91-119 Pennzane
250F 172LBF 152RPM
#123
6 FILE: bp2501
# of Points Modified = 1
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL


BP 91-119 Pennzane
250F 21LBF 343RPM
#124
7 FILE: bp2501
# of Points Modified = 0
TEMP (F)
LOAD (LBF)
TORQUE (OZ*IN) x10 1
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 4
SLIDE/ROLL

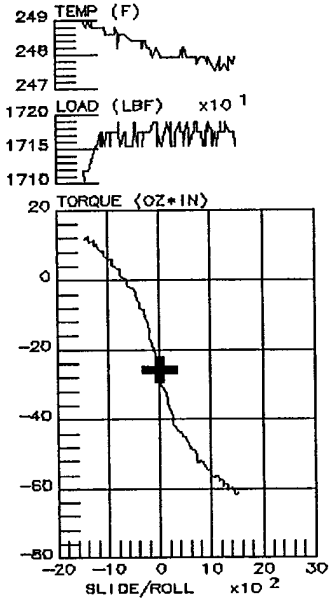
BP 91-119 Pennzane #125
250F 72LBF 343RPM 8 FILE: bp2501



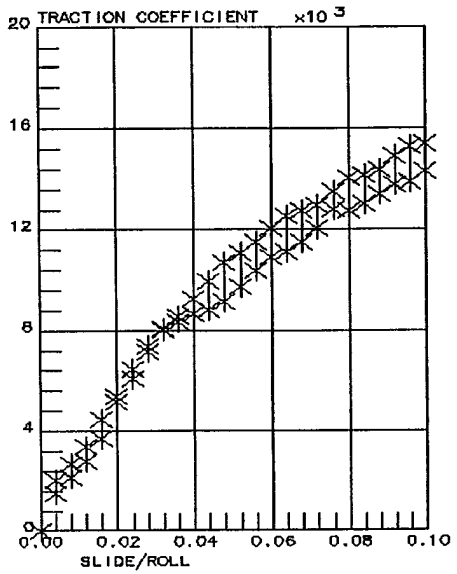
# of Points Modified = 1



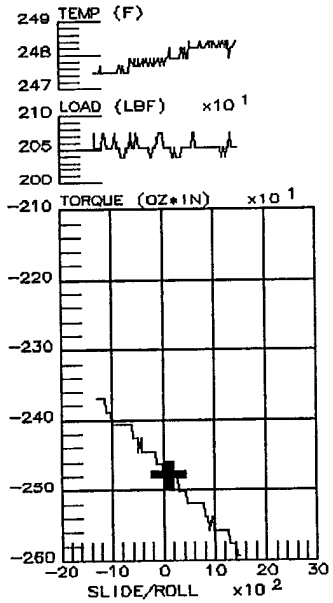
BP 91-119 Pennzane #126
250F 172LBF 343RPM 9 FILE: bp2501



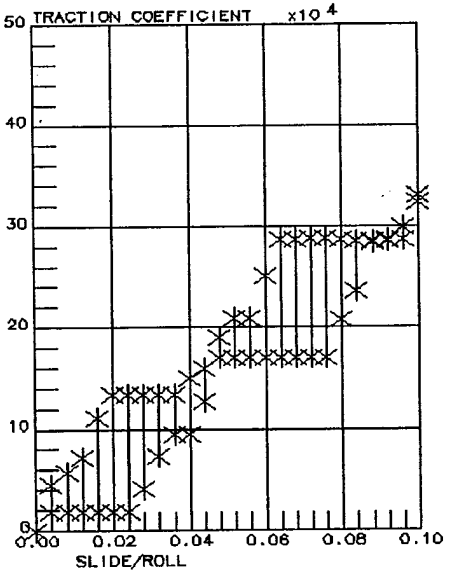
# of Points Modified = 0



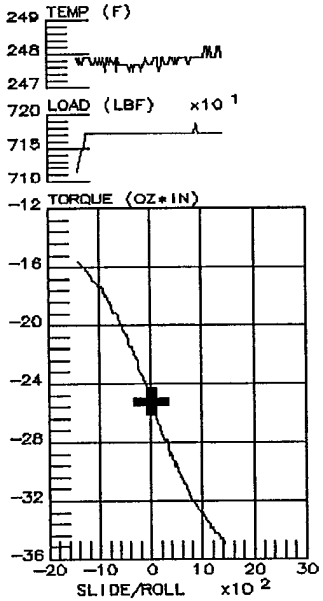
BP 91-119 Pennzane #127
250F 21LBF 1298RPM 10 FILE: bp2501



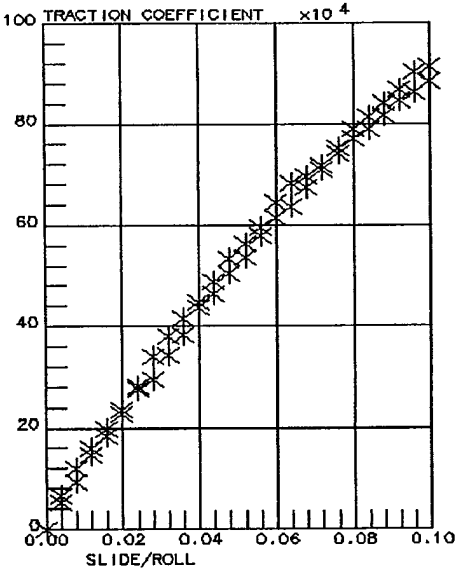
# of Points Modified = 2



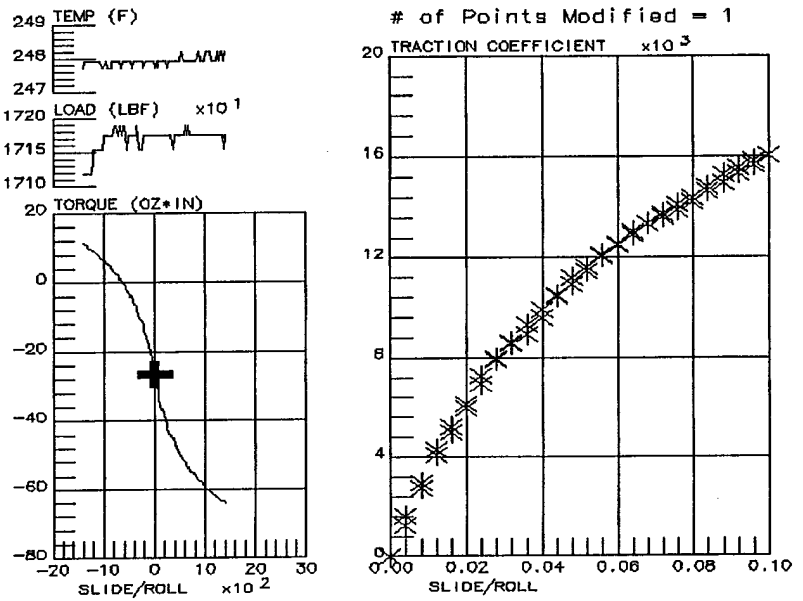
BP 91-119 Pennzane #128
250F 72LBF 1298RPM 11 FILE: bp2501



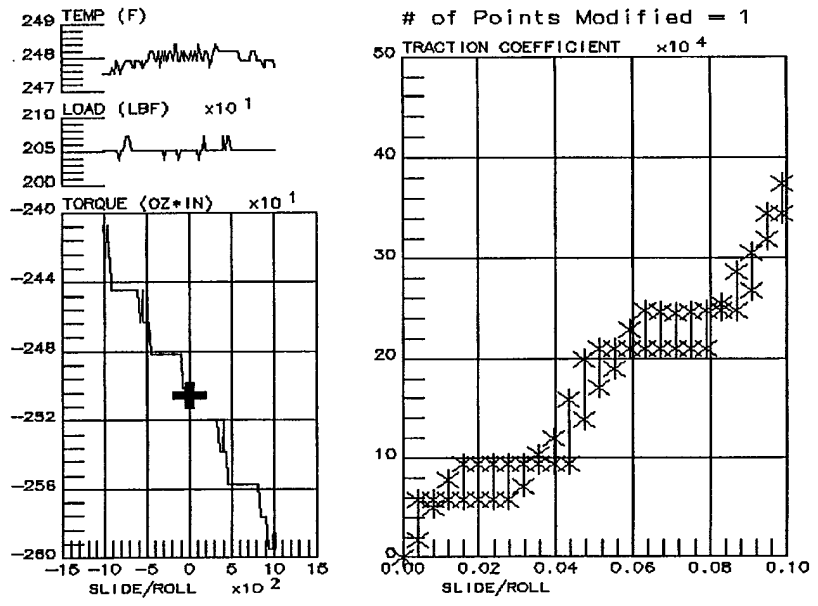
# of Points Modified = 1



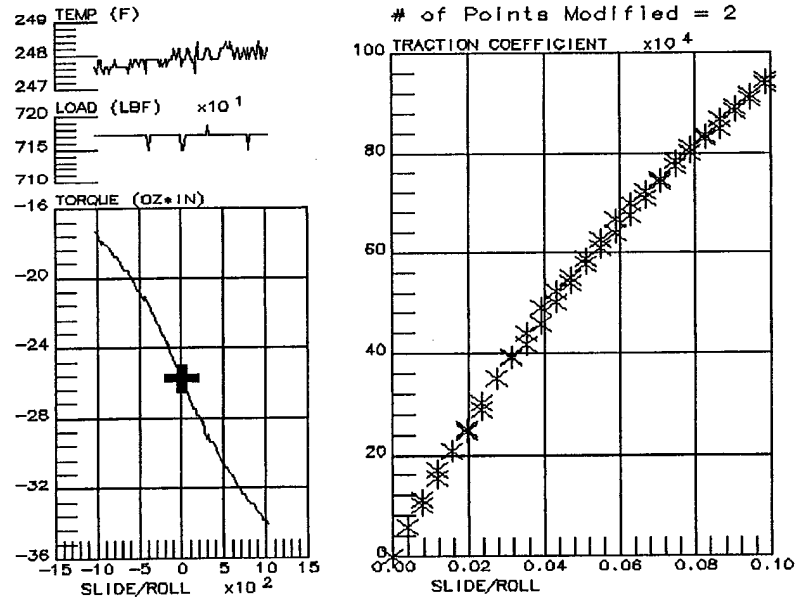
BP 91-119 Pennzane #129
250F 172LBF 1298RPM 12 FILE: bp2501



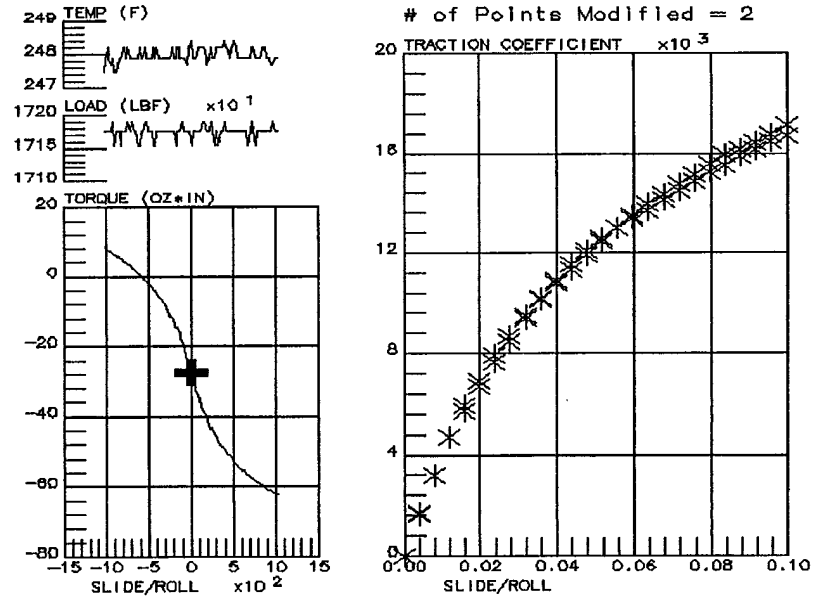
BP 91-119 Pennzane #130
250F 21LBF 2559RPM 13 FILE: bp2501



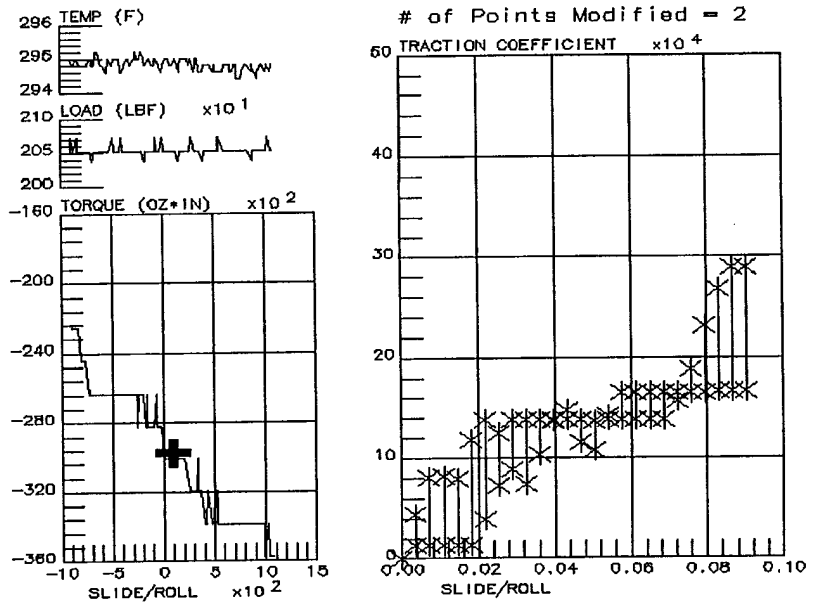
BP 91-119 Pennzane #131
250F 72LBF 2559RPM 14 FILE: bp2501



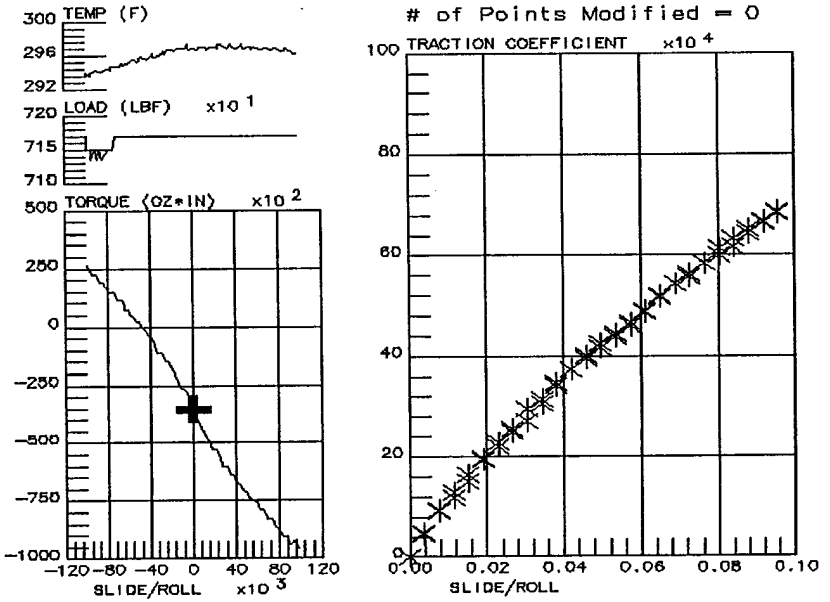
BP 91-119 Pennzane #132
250F 172LBF 2559RPM 15 FILE: bp2501



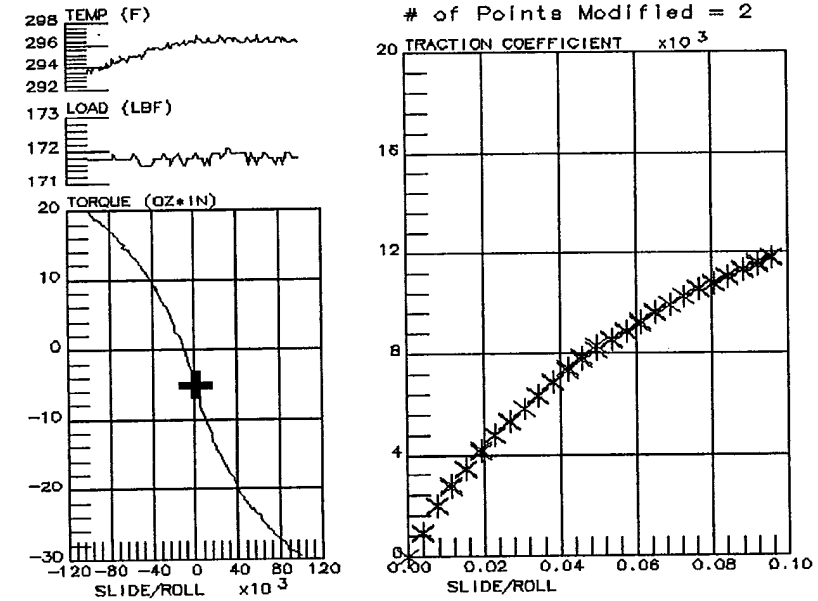
BP 91-119 Pennzane #133
300F 21LBF 5080RPM 1 FILE: bp300h



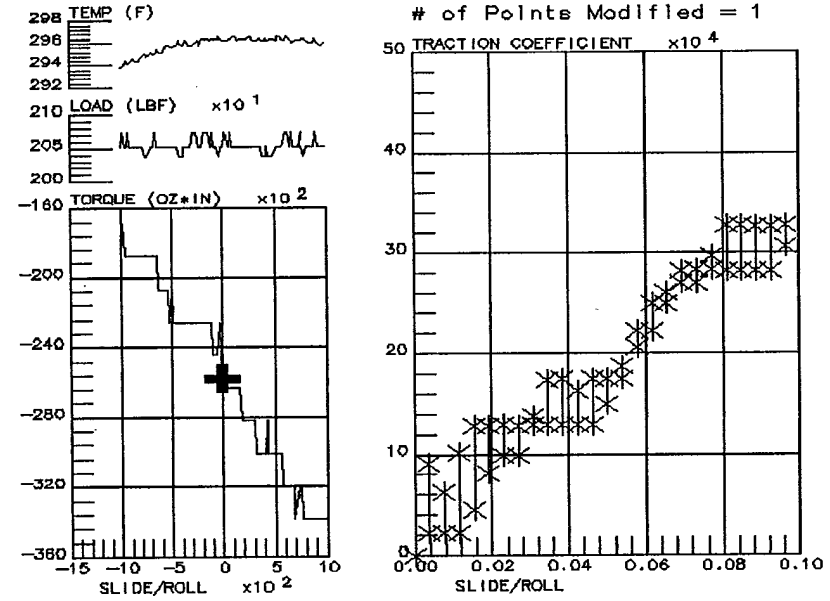
BP 91-119 Pennzane #134
300F 72LBF 5080RPM 2 FILE: bp300h

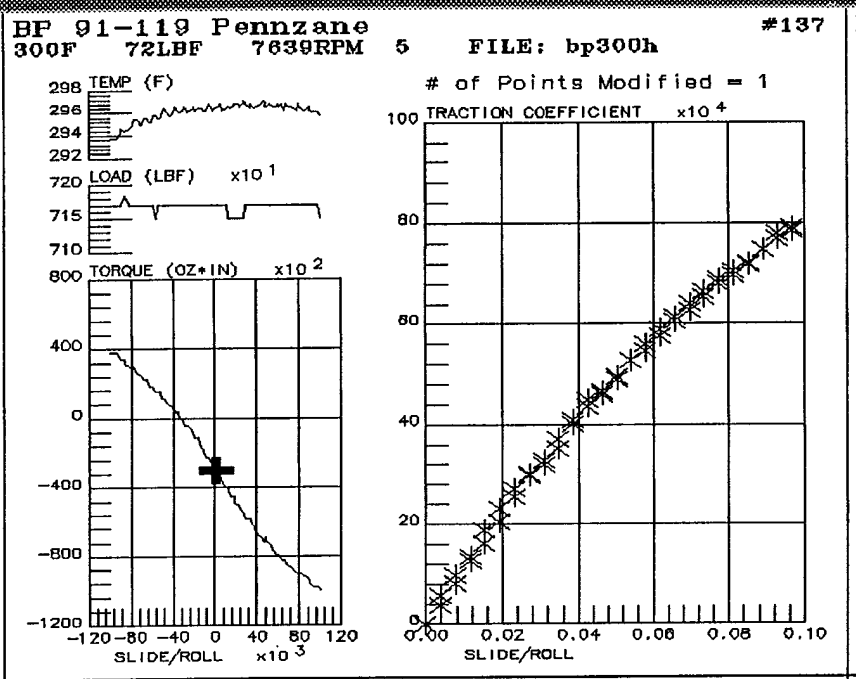


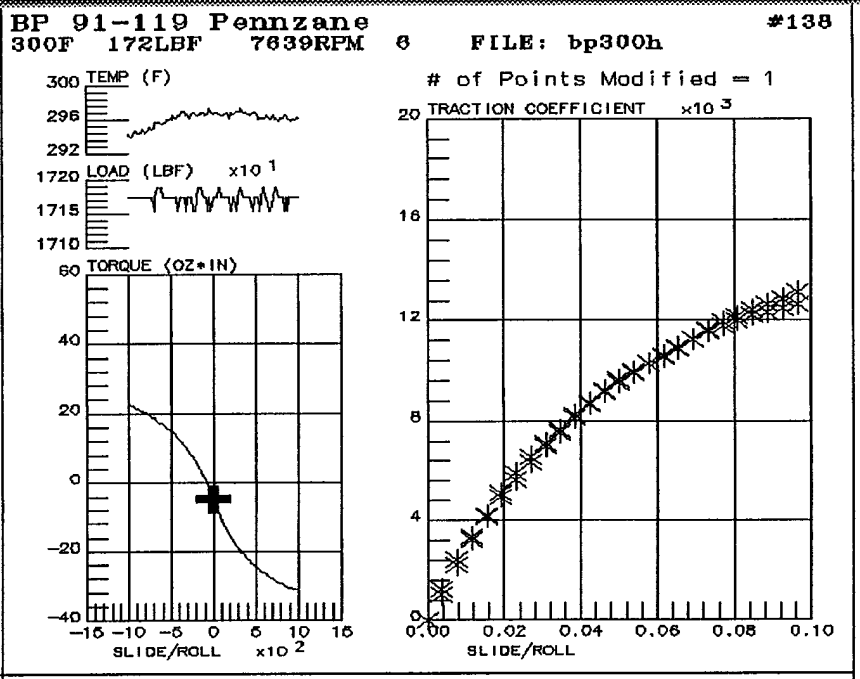
BP 91-119 Pennzane #135
300F 172LBF 5080RPM 3 FILE: bp300h

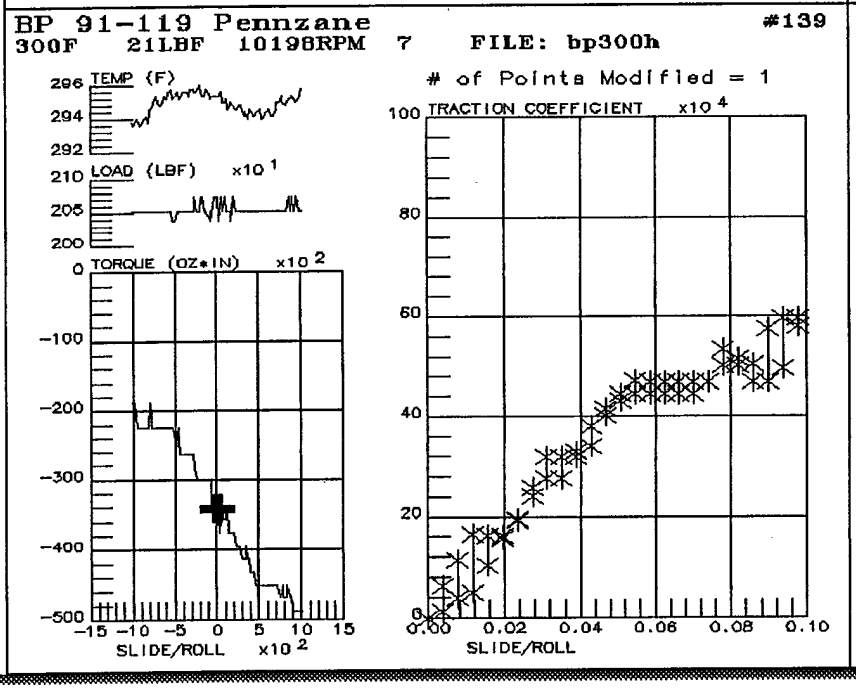


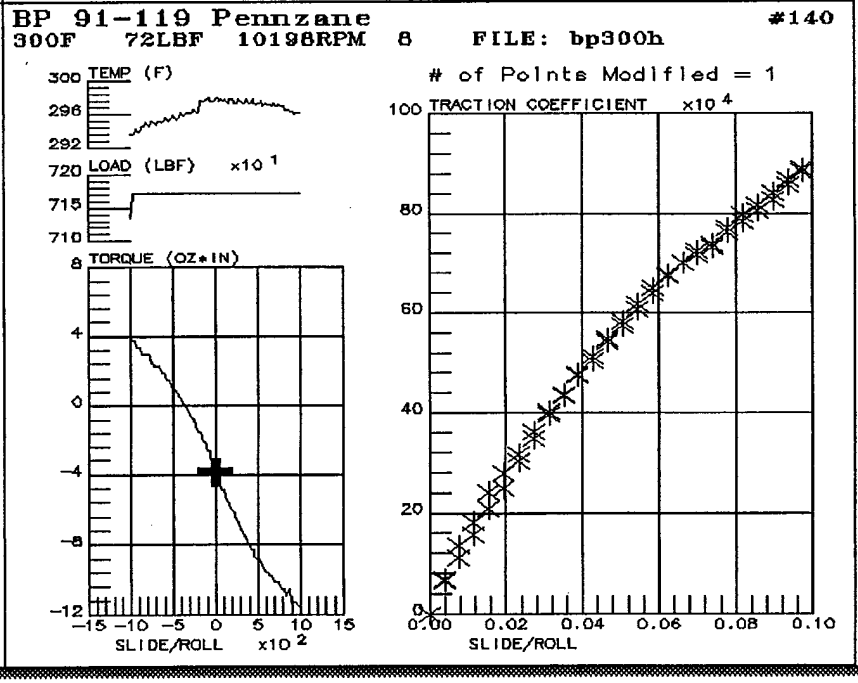
BP 91-119 Pennzane #136
300F 21LBF 7639RPM 4 FILE: bp300h



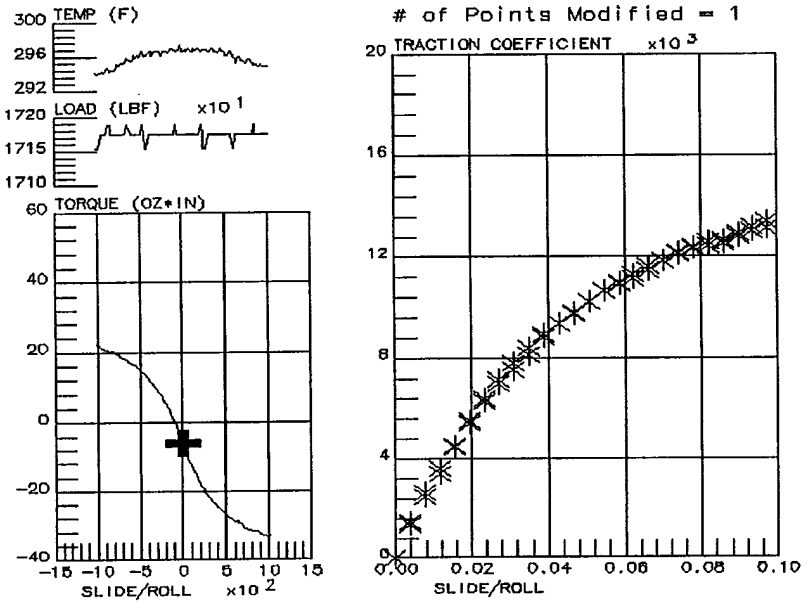

BP 91-119 Pennzane
300F 72LBF 7639RPM 5 FILE: bp300h
#137
# of Points Modified = 1
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN) x10 2
SLIDE/ROLL x10 3
TRACTION COEFFICIENT x10 4
SLIDE/ROLL


BP 91-119 Pennzane
300F 172LBF 7639RPM 6 FILE: bp300h
#138
# of Points Modified = 1
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL

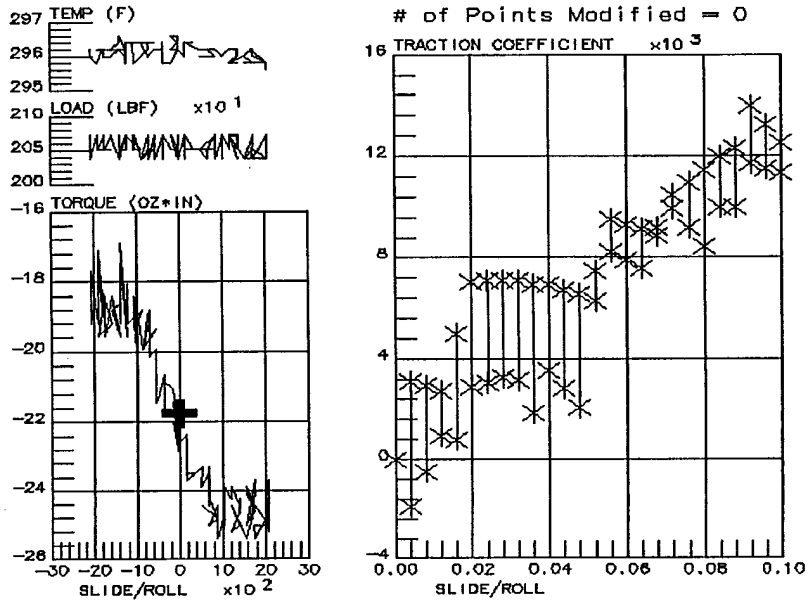

BP 91-119 Pennzane
300F 21LBF 10198RPM 7 FILE: bp300h
#139
# of Points Modified = 1
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN) x10 2
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 4
SLIDE/ROLL


BP 91-119 Pennzane
300F 72LBF 10198RPM 8 FILE: bp300h
#140
# of Points Modified = 1
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 4
SLIDE/ROLL

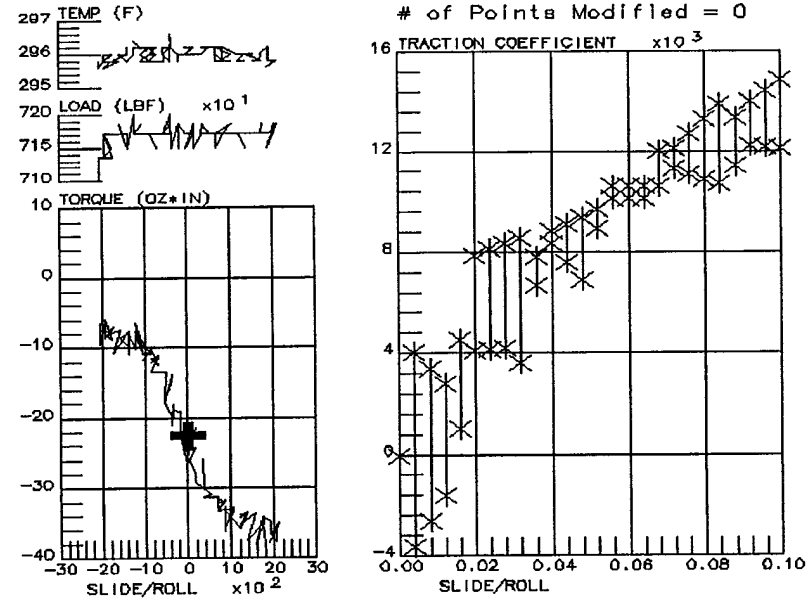
BP 91-119 Pennzane #141
300F 172LBF 10198RPM 9 FILE: bp300h



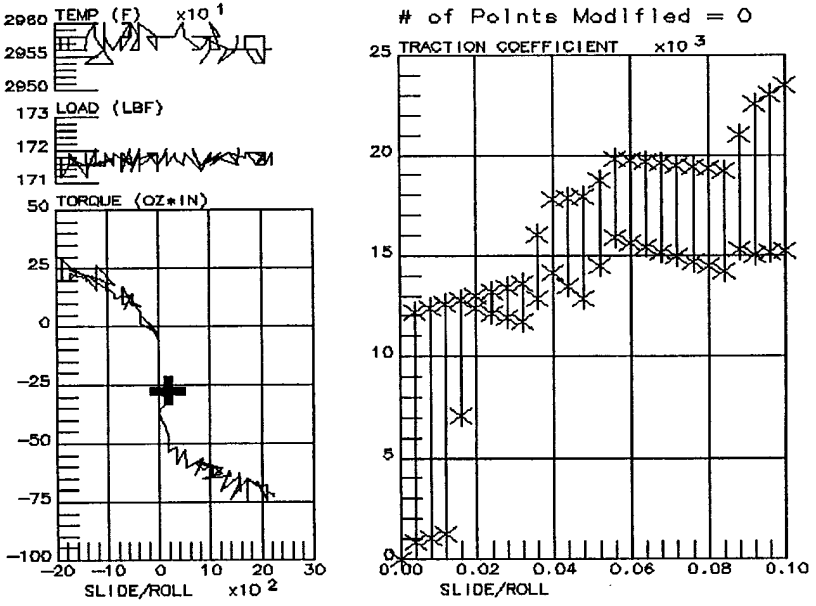
BP 91-119 Pennzane #142
300F 21LBF 76RPM 1 FILE: bp3001

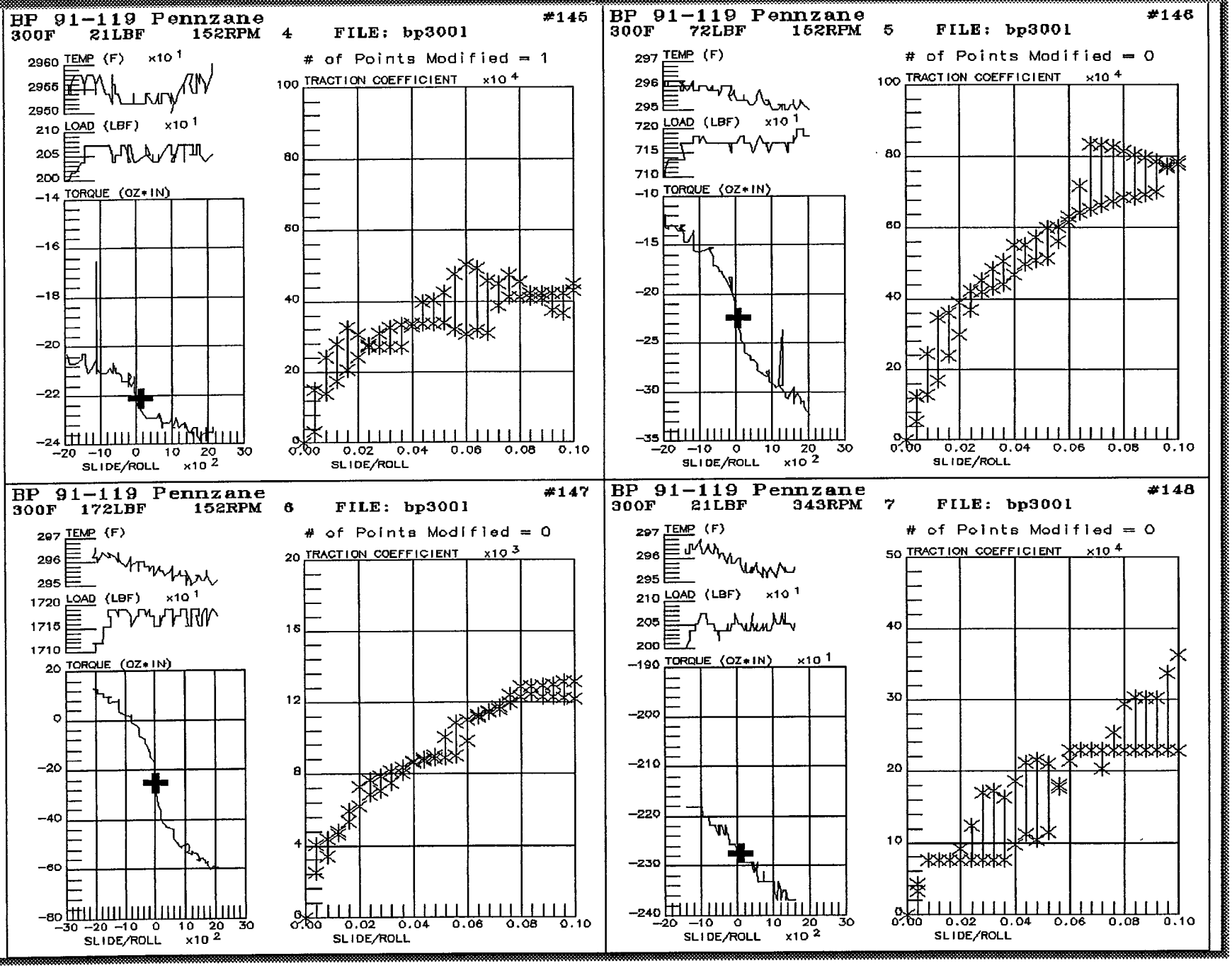


BP 91-119 Pennzane #143
300F 72LBF 76RPM 2 FILE: bp3001

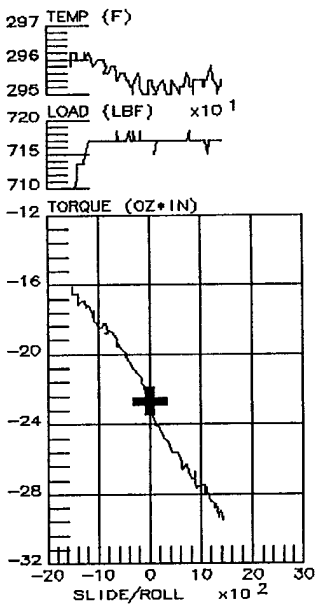


BP 91-119 Pennzane #144
300F 172LBF 76RPM 3 FILE: bp3001

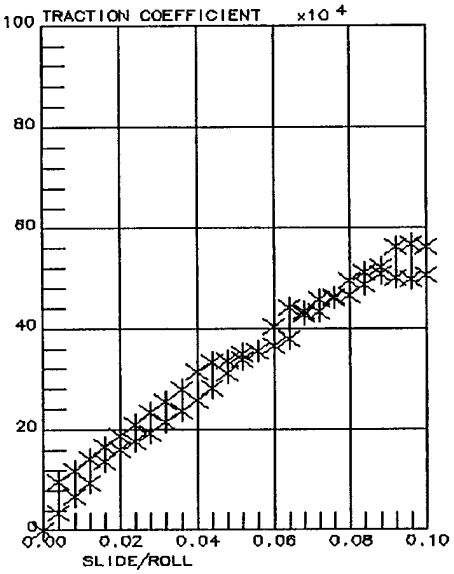



BP 91-119 Pennzane #145
300F 21LBF 152RPM 4 FILE: bp3001
# of Points Modified = 1
TEMP (F) x10 1
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 4
SLIDE/ROLL
BP 91-119 Pennzane #146
300F 72LBF 152RPM 5 FILE: bp3001
# of Points Modified = 0
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 4
SLIDE/ROLL
BP 91-119 Pennzane #147
300F 172LBF 152RPM 6 FILE: bp3001
# of Points Modified = 0
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL
BP 91-119 Pennzane #148
300F 21LBF 343RPM 7 FILE: bp3001
# of Points Modified = 0
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN) x10 1
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 4
SLIDE/ROLL

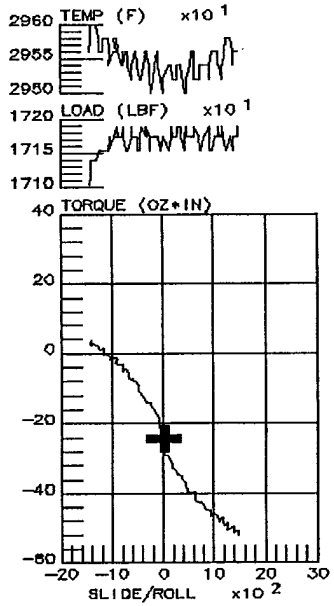
BP 91-119 Pennzane #149
300F 72LBF 343RPM 8 FILE: bp3001



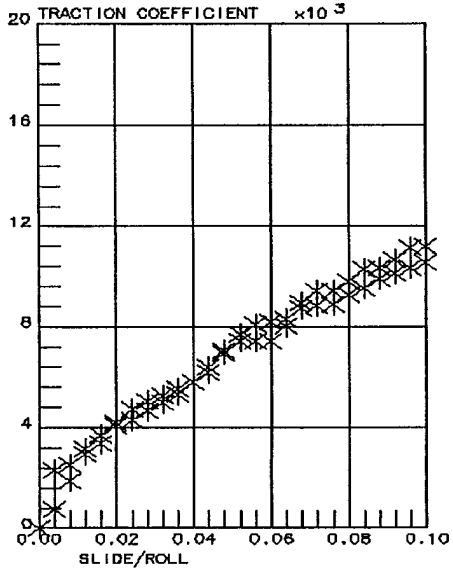
# of Points Modified = 3



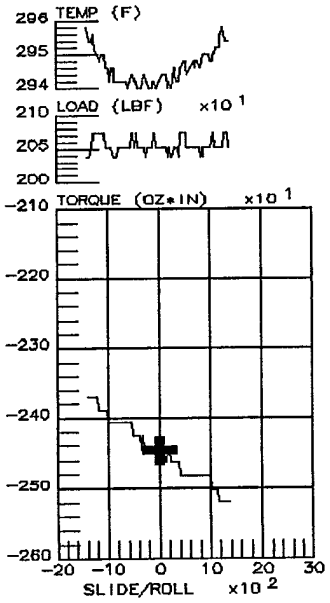
BP 91-119 Pennzane #150
300F 172LBF 343RPM 9 FILE: bp3001



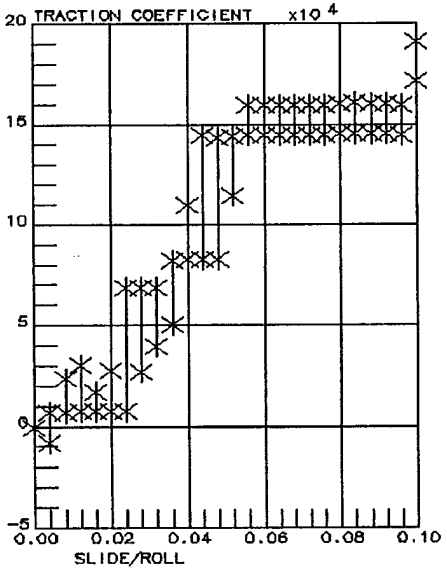
# of Points Modified = 0



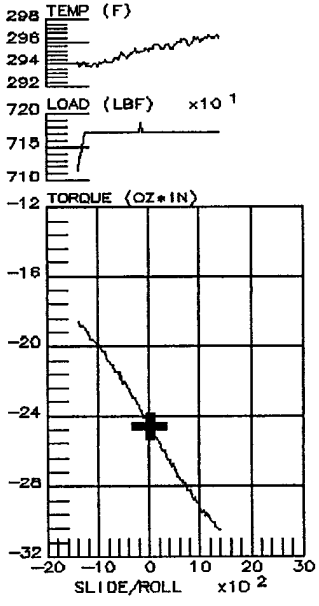
BP 91-119 Pennzane #151
300F 21LBF 1298RPM 10 FILE: bp3001



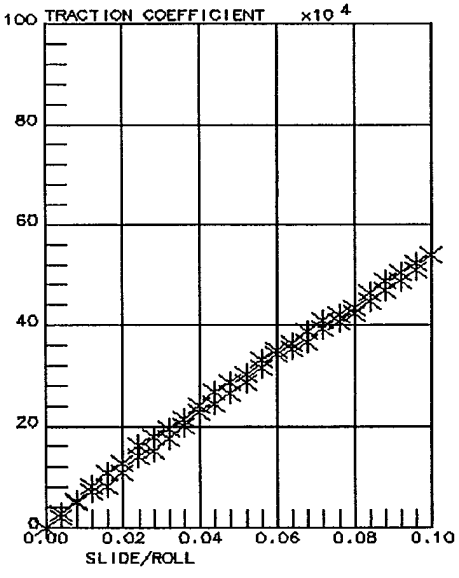
# of Points Modified = 3

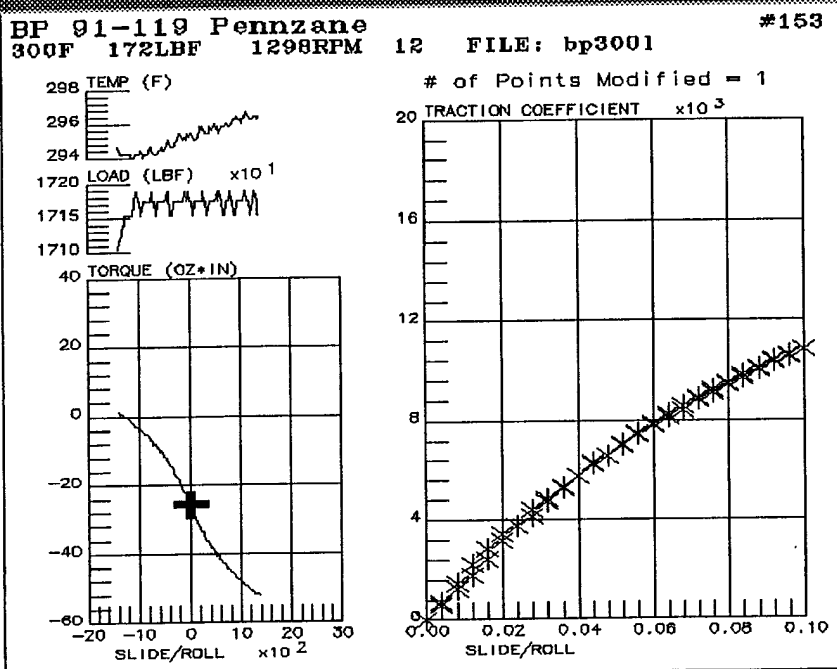


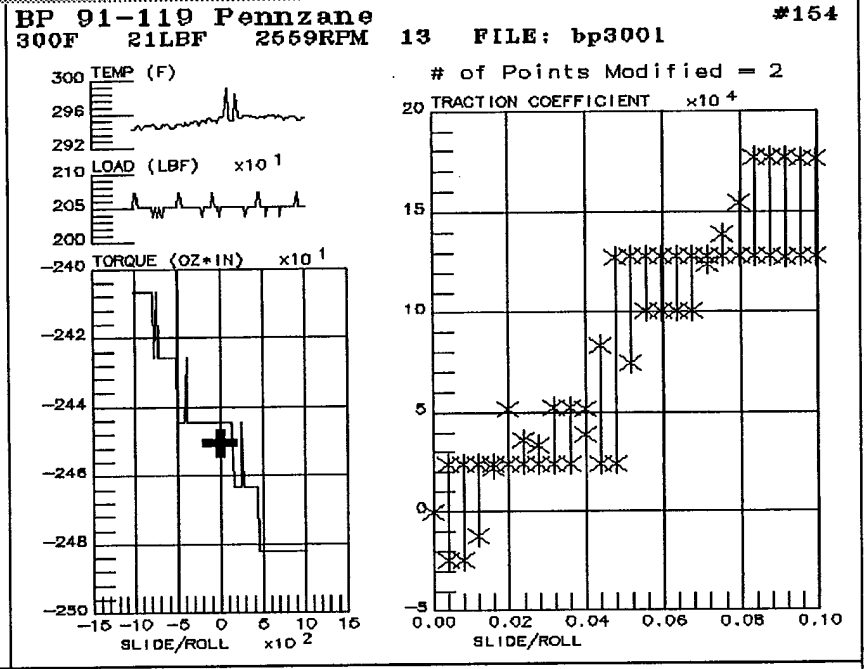
BP 91-119 Pennzane #152
300F 72LBF 1298RPM 11 FILE: bp3001

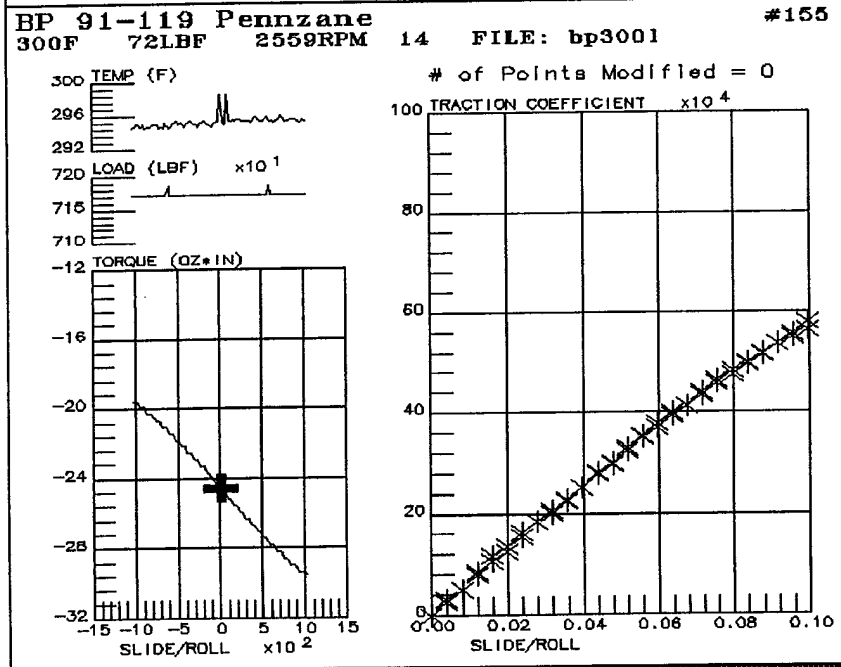


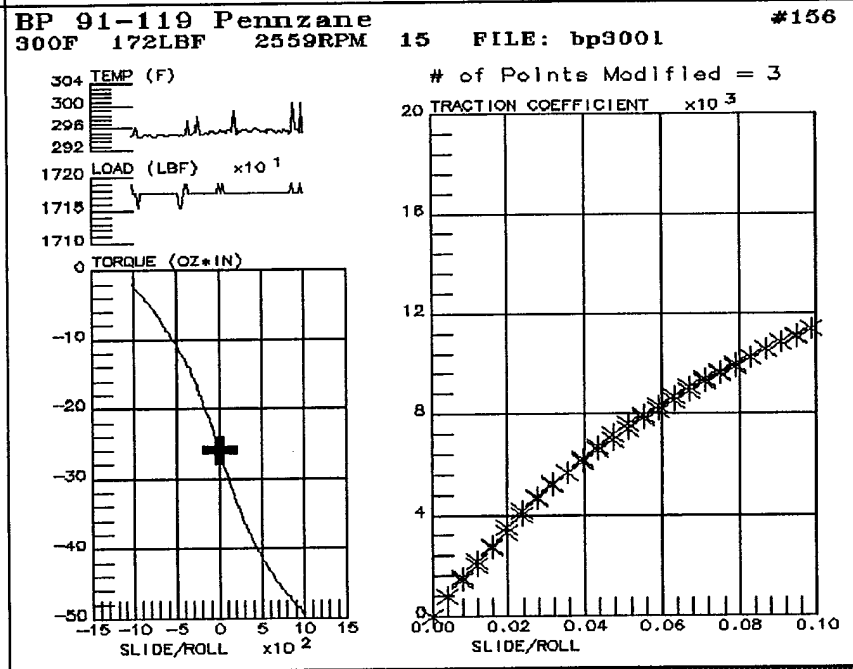
# of Points Modified = 0




BP 91-119 Pennzane
300F 172LBF 1298RPM 12 FILE: bp3001
#153
# of Points Modified = 1
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL


BP 91-119 Pennzane
300F 21LBF 2559RPM 13 FILE: bp3001
#154
# of Points Modified = 2
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN) x10 1
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 4
SLIDE/ROLL


BP 91-119 Pennzane
300F 72LBF 2559RPM 14 FILE: bp3001
#155
# of Points Modified = 0
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 4
SLIDE/ROLL


BP 91-119 Pennzane
300F 172LBF 2559RPM 15 FILE: bp3001
#156
# of Points Modified = 3
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL

14. Traction Data Set M: 89-180 VistaLube 7

Data set name: CC 89-180 Vistalube 7
Rolling radii [Disks 1 & 2] (in): 0.75 0.75
Crown radii [Disks 1 & 2] (in): 1.00 1.10

Number of data sets found = 335

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
1	80.00	0.46	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	8.68E-03	vist-01 #1
2	80.00	1.57	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	3.60E-04	vist-01 #2
3	80.00	3.72	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	3.18E-04	vist-01 #3
4	80.00	12.55	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	1.76E-04	vist-01 #4
5	80.00	29.76	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	4.59E-05	vist-01 #5
6	80.00	58.13	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	7.44E-05	vist-01 #6
7	80.00	100.47	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	4.14E-05	vist-01 #7
8	80.00	0.46	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	9.56E-03	vist-01 #8
9	80.00	1.57	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	1.97E-03	vist-01 #9
10	80.00	3.72	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	1.90E-04	vist-01 #10
11	80.00	12.55	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	1.50E-04	vist-01 #11
12	80.00	29.76	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	7.21E-05	vist-01 #12
13	80.00	58.13	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	6.25E-05	vist-01 #13
14	80.00	100.47	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	9.36E-05	vist-01 #14
15	80.00	0.46	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	8.49E-03	vist-01 #15
16	80.00	1.57	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	1.53E-03	vist-01 #16
17	80.00	3.72	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	1.73E-04	vist-01 #17
18	80.00	12.55	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	1.84E-04	vist-01 #18
19	80.00	29.76	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	8.81E-05	vist-01 #19
20	80.00	58.13	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	7.05E-05	vist-01 #20
21	80.00	100.47	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	4.56E-05	vist-01 #21
22	100.00	1.57	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	2.10E-03	vist-02 #1
23	100.00	3.72	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	2.44E-04	vist-02 #2
24	100.00	12.55	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	5.67E-05	vist-02 #3
25	100.00	29.76	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	7.06E-05	vist-02 #4
26	100.00	58.13	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	9.21E-05	vist-02 #5
27	100.00	100.47	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	7.54E-05	vist-02 #6
28	100.00	1.57	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	2.90E-04	vist-02 #7
29	100.00	3.72	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	2.50E-04	vist-02 #8
30	100.00	12.55	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	1.10E-04	vist-02 #9
31	100.00	29.76	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	3.09E-05	vist-02 #10
32	100.00	58.13	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	7.99E-05	vist-02 #11
33	100.00	100.47	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	6.19E-05	vist-02 #12
34	100.00	1.57	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	3.12E-04	vist-02 #13
35	100.00	3.72	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	1.47E-04	vist-02 #14
36	100.00	12.55	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	9.10E-05	vist-02 #15
37	100.00	29.76	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	2.30E-05	vist-02 #16
38	100.00	58.13	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	1.51E-04	vist-02 #17
39	100.00	100.47	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	1.00E-04	vist-02 #18
40	150.00	1.57	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	3.41E-04	vist-03 #1
41	150.00	3.72	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	1.24E-04	vist-03 #2
42	150.00	12.55	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	2.82E-05	vist-03 #3
43	150.00	29.76	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	4.88E-05	vist-03 #4
44	150.00	58.13	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	8.24E-05	vist-03 #5
45	150.00	100.47	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	1.00E-04	vist-03 #6
46	150.00	1.57	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	1.05E-03	vist-03 #7
47	150.00	3.72	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	1.93E-04	vist-03 #8
48	150.00	12.55	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	6.29E-05	vist-03 #9
49	150.00	29.76	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	4.53E-05	vist-03 #10
50	150.00	58.13	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	2.83E-05	vist-03 #11

Data set: CC 89-180 Vistalube 7 ....continued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
51	150.00	100.47	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	5.21E-05	vist-03 #12
52	150.00	1.57	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	2.30E-03	vist-03 #13
53	150.00	3.72	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	6.71E-04	vist-03 #14
54	150.00	12.55	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	9.91E-05	vist-03 #15
55	150.00	29.76	9688.00	10708.00	10198.00	92	0.71	1.49	1.00	1.00	1.00	8.04E-04	vist-03 #16
56	150.00	58.13	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	9.15E-05	vist-03x #1
57	150.00	100.47	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	1.09E-04	vist-03x #2
58	150.00	58.13	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	2.40E-05	vist-03z #1
59	150.00	100.47	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	1.86E-05	vist-03z #2
60	200.00	1.57	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	4.08E-03	vist-04 #1
61	200.00	3.72	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	1.27E-04	vist-04 #2
62	200.00	12.55	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	2.43E-05	vist-04 #3
63	200.00	29.76	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	6.24E-05	vist-04 #4
64	200.00	58.13	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	8.49E-05	vist-04 #5
65	200.00	100.47	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	6.45E-05	vist-04 #6
66	200.00	1.57	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	6.48E-04	vist-04 #7
67	200.00	3.72	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	4.94E-05	vist-04 #8
68	200.00	12.55	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	8.97E-05	vist-04 #9
69	200.00	29.76	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	4.23E-05	vist-04 #10
70	200.00	58.13	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	4.22E-05	vist-04 #11
71	200.00	100.47	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	6.23E-05	vist-04 #12
72	200.00	1.57	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	1.60E-03	vist-04 #13
73	200.00	3.72	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	3.22E-04	vist-04 #14
74	200.00	12.55	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	1.55E-04	vist-04 #15
75	200.00	29.76	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	4.49E-05	vist-04 #16
76	200.00	58.13	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	4.02E-05	vist-04 #17
77	200.00	100.47	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	8.36E-05	vist-04 #18
78	250.00	0.46	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	3.53E-03	vist-05 #1
79	250.00	1.57	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	5.25E-04	vist-05 #2
80	250.00	3.72	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	3.22E-04	vist-05 #3
81	250.00	12.55	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	7.04E-06	vist-05 #4
82	250.00	29.76	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	1.45E-05	vist-05 #5
83	250.00	58.13	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	1.80E-05	vist-05 #6
84	250.00	100.47	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	4.59E-05	vist-05 #7
85	250.00	0.46	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	3.56E-03	vist-05 #8
86	250.00	1.57	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	7.92E-04	vist-05 #9
87	250.00	3.72	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	2.97E-05	vist-05 #10
88	250.00	12.55	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	3.58E-05	vist-05 #11
89	250.00	29.76	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	2.05E-05	vist-05 #12
90	250.00	58.13	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	2.62E-05	vist-05 #13
91	250.00	100.47	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	4.48E-05	vist-05 #14
92	250.00	0.46	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	1.11E-02	vist-05 #15
93	250.00	1.57	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	9.44E-04	vist-05 #16
94	250.00	3.72	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	3.10E-04	vist-05 #17
95	250.00	12.55	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	6.29E-05	vist-05 #18
96	250.00	29.76	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	3.46E-05	vist-05 #19
97	250.00	58.13	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	3.22E-05	vist-05 #20
98	250.00	100.47	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	4.55E-05	vist-05 #21
99	300.00	0.46	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	1.79E-02	vist-06 #1
100	300.00	1.57	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	4.39E-04	vist-06 #2
101	300.00	3.72	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	1.60E-04	vist-06 #3
102	300.00	12.55	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	7.02E-05	vist-06 #4
103	300.00	29.76	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	9.69E-06	vist-06 #5
104	300.00	58.13	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	2.41E-05	vist-06 #6
105	300.00	100.47	4826.00	5334.00	5080.00	100	0.71	1.49	1.00	1.00	1.00	2.32E-05	vist-06 #7
106	300.00	0.46	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	4.35E-03	vist-06 #8
107	300.00	1.57	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	7.57E-04	vist-06 #9
108	300.00	3.72	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	2.09E-04	vist-06 #10
109	300.00	12.55	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	3.97E-05	vist-06 #11
110	300.00	29.76	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	1.15E-05	vist-06 #12
111	300.00	58.13	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	1.12E-05	vist-06 #13
112	300.00	100.47	7259.00	8019.00	7639.00	100	0.71	1.49	1.00	1.00	1.00	9.30E-06	vist-06 #14
113	300.00	0.46	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	1.20E-02	vist-06 #15
114	300.00	1.57	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	4.68E-04	vist-06 #16
115	300.00	3.72	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	3.75E-04	vist-06 #17
116	300.00	12.55	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	5.43E-05	vist-06 #18
117	300.00	29.76	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	5.41E-05	vist-06 #19
118	300.00	58.13	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	2.28E-05	vist-06 #20
119	300.00	100.47	9688.00	10708.00	10198.00	100	0.71	1.49	1.00	1.00	1.00	1.88E-05	vist-06 #21
120	80.00	1.57	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	2.82E-03	vist-07 #1

Data set: CC 89-180 Vistalube 7 ....continued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	Calibration Factors Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
121	80.00	3.72	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	3.46E-04	vist-07 #2
122	80.00	12.55	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	1.50E-03	vist-07 #3
123	80.00	29.76	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	3.23E-03	vist-07 #4
124	80.00	58.13	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	7.81E-03	vist-07 #5
125	80.00	100.47	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	1.44E-02	vist-07 #6
126	80.00	1.57	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	1.31E-03	vist-07 #7
127	80.00	3.72	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	2.69E-04	vist-07 #8
128	80.00	12.55	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	2.42E-03	vist-07 #9
129	80.00	29.76	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	2.72E-03	vist-07 #10
130	80.00	58.13	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	1.22E-02	vist-07 #11
131	80.00	100.47	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	6.23E-03	vist-07 #12
132	80.00	1.57	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	1.85E-04	vist-07 #13
133	80.00	3.72	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	6.76E-05	vist-07 #14
134	80.00	12.55	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	1.31E-04	vist-07 #15
135	80.00	29.76	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	3.95E-04	vist-07 #16
136	80.00	58.13	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	7.85E-04	vist-07 #17
137	80.00	100.47	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	1.95E-04	vist-07 #18
138	80.00	1.57	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	5.84E-05	vist-07 #19
139	80.00	3.72	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	8.14E-06	vist-07 #20
140	80.00	12.55	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	4.62E-05	vist-07 #21
141	80.00	29.76	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	6.28E-05	vist-07 #22
142	80.00	58.13	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	9.02E-05	vist-07 #23
143	80.00	100.47	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	8.38E-05	vist-07 #24
144	80.00	1.57	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	2.53E-04	vist-07 #25
145	80.00	3.72	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	7.19E-05	vist-07 #26
146	80.00	12.55	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	1.66E-05	vist-07 #27
147	80.00	29.76	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	4.15E-05	vist-07 #28
148	80.00	58.13	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	1.08E-04	vist-07 #29
149	80.00	100.47	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	1.23E-04	vist-07 #30
150	80.00	1.57	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	3.24E-03	vist-07 #31
151	80.00	3.72	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	1.70E-04	vist-07 #32
152	80.00	12.55	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	1.12E-05	vist-07 #33
153	80.00	29.76	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	4.33E-05	vist-07 #34
154	80.00	58.13	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	3.97E-05	vist-07 #35
155	80.00	100.47	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	1.26E-04	vist-07 #36
156	100.00	1.57	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	2.93E-03	vist-08 #1
157	100.00	3.72	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	2.25E-03	vist-08 #2
158	100.00	12.55	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	2.35E-03	vist-08 #3
159	100.00	29.76	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	1.34E-02	vist-08 #4
160	100.00	58.13	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	6.35E-03	vist-08 #5
161	100.00	100.47	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	6.54E-03	vist-08 #6
162	100.00	1.57	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	2.33E-03	vist-08 #7
163	100.00	3.72	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	1.95E-04	vist-08 #8
164	100.00	12.55	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	2.14E-03	vist-08 #9
165	100.00	29.76	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	2.60E-03	vist-08 #10
166	100.00	58.13	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	6.33E-04	vist-08 #11
167	100.00	100.47	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	1.86E-03	vist-08 #12
168	100.00	1.57	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	2.40E-04	vist-08 #13
169	100.00	3.72	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	1.51E-04	vist-08 #14
170	100.00	12.55	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	1.83E-04	vist-08 #15
171	100.00	29.76	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	4.77E-04	vist-08 #16
172	100.00	58.13	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	4.17E-04	vist-08 #17
173	100.00	100.47	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	4.07E-04	vist-08 #18
174	100.00	1.57	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	3.21E-04	vist-08 #19
175	100.00	3.72	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	7.45E-05	vist-08 #20
176	100.00	12.55	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	4.45E-05	vist-08 #21
177	100.00	29.76	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	1.24E-04	vist-08 #22
178	100.00	58.13	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	1.26E-04	vist-08 #23
179	100.00	100.47	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	7.67E-04	vist-08 #24
180	100.00	1.57	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	3.59E-04	vist-08 #25
181	100.00	3.72	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	1.48E-04	vist-08 #26
182	100.00	12.55	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	9.00E-05	vist-08 #27
183	100.00	29.76	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	6.30E-05	vist-08 #28
184	100.00	58.13	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	1.61E-05	vist-08 #29
185	100.00	100.47	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	8.78E-05	vist-08 #30
186	100.00	1.57	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	9.17E-04	vist-08 #31
187	100.00	3.72	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	2.31E-04	vist-08 #32
188	100.00	12.55	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	2.56E-05	vist-08 #33
189	100.00	29.76	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	4.74E-05	vist-08 #34
190	100.00	58.13	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	4.15E-05	vist-08 #35

Data set: CC 89-180 Vistalube 7 ....continued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
191	100.00	100.47	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	1.10E-04	vist-08 #36
192	150.00	1.57	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	3.75E-03	vist-09 #1
193	150.00	3.72	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	2.44E-03	vist-09 #2
194	150.00	12.55	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	1.31E-02	vist-09 #3
195	150.00	29.76	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	4.26E-02	vist-09 #4
196	150.00	58.13	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	1.65E-02	vist-09 #5
197	150.00	100.47	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	6.14E-03	vist-09 #6
198	150.00	1.57	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	4.38E-04	vist-09 #7
199	150.00	3.72	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	5.49E-04	vist-09 #8
200	150.00	12.55	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	4.21E-03	vist-09 #9
201	150.00	29.76	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	1.42E-03	vist-09 #10
202	150.00	58.13	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	4.92E-03	vist-09 #11
203	150.00	100.47	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	2.54E-03	vist-09 #12
204	150.00	1.57	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	2.53E-03	vist-09 #13
205	150.00	3.72	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	9.74E-05	vist-09 #14
206	150.00	12.55	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	1.85E-04	vist-09 #15
207	150.00	29.76	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	3.68E-04	vist-09 #16
208	150.00	58.13	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	4.25E-04	vist-09 #17
209	150.00	100.47	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	7.08E-05	vist-09 #18
210	150.00	1.57	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	1.25E-03	vist-09 #19
211	150.00	3.72	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	5.28E-05	vist-09 #20
212	150.00	12.55	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	7.31E-06	vist-09 #21
213	150.00	29.76	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	7.15E-05	vist-09 #22
214	150.00	58.13	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	1.55E-04	vist-09 #23
215	150.00	100.47	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	6.62E-05	vist-09 #24
216	150.00	1.57	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	4.38E-04	vist-09 #25
217	150.00	3.72	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	4.09E-05	vist-09 #26
218	150.00	12.55	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	8.80E-06	vist-09 #27
219	150.00	29.76	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	3.23E-05	vist-09 #28
220	150.00	58.13	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	1.04E-04	vist-09 #29
221	150.00	100.47	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	9.92E-05	vist-09 #30
222	150.00	1.57	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	1.09E-04	vist-09 #31
223	150.00	3.72	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	5.53E-05	vist-09 #32
224	150.00	12.55	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	1.98E-05	vist-09 #33
225	150.00	29.76	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	3.92E-05	vist-09 #34
226	150.00	58.13	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	4.06E-05	vist-09 #35
227	150.00	100.47	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	2.15E-05	vist-09 #36
228	200.00	1.57	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	3.99E-03	vist-10 #1
229	200.00	3.72	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	2.13E-03	vist-10 #2
230	200.00	12.55	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	9.16E-03	vist-10 #3
231	200.00	29.76	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	4.06E-02	vist-10 #4
232	200.00	58.13	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	4.72E-02	vist-10 #5
233	200.00	100.47	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	9.66E-02	vist-10 #6
234	200.00	1.57	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	3.05E-03	vist-10 #7
235	200.00	3.72	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	1.11E-03	vist-10 #8
236	200.00	12.55	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	2.23E-03	vist-10 #9
237	200.00	29.76	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	3.72E-03	vist-10 #10
238	200.00	58.13	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	6.88E-03	vist-10 #11
239	200.00	100.47	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	1.96E-02	vist-10 #12
240	200.00	1.57	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	1.64E-03	vist-10 #13
241	200.00	3.72	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	9.21E-04	vist-10 #14
242	200.00	12.55	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	8.45E-05	vist-10 #15
243	200.00	29.76	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	1.31E-04	vist-10 #16
244	200.00	58.13	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	4.17E-04	vist-10 #17
245	200.00	100.47	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	5.39E-04	vist-10 #18
246	200.00	1.57	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	5.56E-04	vist-10 #19
247	200.00	3.72	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	3.62E-05	vist-10 #20
248	200.00	12.55	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	3.06E-05	vist-10 #21
249	200.00	29.76	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	1.79E-04	vist-10 #22
250	200.00	58.13	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	1.29E-04	vist-10 #23
251	200.00	100.47	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	1.28E-04	vist-10 #24
252	200.00	1.57	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	2.39E-04	vist-10 #25
253	200.00	3.72	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	4.89E-05	vist-10 #26
254	200.00	12.55	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	4.22E-05	vist-10 #27
255	200.00	29.76	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	6.61E-06	vist-10 #28
256	200.00	58.13	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	1.04E-04	vist-10 #29
257	200.00	100.47	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	7.85E-05	vist-10 #30
258	200.00	1.57	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	4.35E-04	vist-10 #31
259	200.00	3.72	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	1.00E-04	vist-10 #32
260	200.00	12.55	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	2.54E-05	vist-10 #33

Data set: CC 89-180 Vistalube 7 ....continued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	Calibration Factors Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
261	200.00	29.76	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	1.40E-05	vist-10 #34
262	200.00	58.13	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	5.93E-05	vist-10 #35
263	200.00	100.47	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	1.12E-04	vist-10 #36
264	250.00	1.57	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	3.57E-03	vist-11 #1
265	250.00	3.72	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	7.82E-03	vist-11 #2
266	250.00	12.55	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	1.56E-02	vist-11 #3
267	250.00	29.76	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	2.88E-02	vist-11 #4
268	250.00	58.13	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	7.01E-02	vist-11 #5
269	250.00	100.47	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	6.56E-03	vist-11 #6
270	250.00	1.57	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	4.66E-03	vist-11 #7
271	250.00	3.72	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	1.33E-03	vist-11 #8
272	250.00	12.55	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	2.71E-03	vist-11 #9
273	250.00	29.76	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	9.76E-03	vist-11 #10
274	250.00	58.13	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	3.29E-03	vist-11 #11
275	250.00	100.47	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	1.91E-03	vist-11 #12
276	250.00	1.57	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	2.76E-04	vist-11 #13
277	250.00	3.72	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	2.58E-04	vist-11 #14
278	250.00	12.55	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	9.90E-05	vist-11 #15
279	250.00	29.76	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	3.76E-04	vist-11 #16
280	250.00	58.13	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	5.85E-04	vist-11 #17
281	250.00	100.47	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	2.29E-04	vist-11 #18
282	250.00	1.57	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	1.27E-04	vist-11 #19
283	250.00	3.72	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	1.50E-04	vist-11 #20
284	250.00	12.55	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	9.22E-05	vist-11 #21
285	250.00	29.76	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	5.48E-05	vist-11 #22
286	250.00	58.13	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	1.63E-04	vist-11 #23
287	250.00	100.47	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	9.97E-05	vist-11 #24
288	250.00	1.57	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	7.87E-04	vist-11 #25
289	250.00	3.72	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	3.53E-05	vist-11 #26
290	250.00	12.55	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	1.27E-05	vist-11 #27
291	250.00	29.76	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	1.62E-05	vist-11 #28
292	250.00	58.13	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	1.25E-04	vist-11 #29
293	250.00	100.47	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	2.55E-04	vist-11 #30
294	250.00	1.57	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	3.35E-04	vist-11 #31
295	250.00	3.72	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	1.27E-04	vist-11 #32
296	250.00	12.55	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	5.64E-05	vist-11 #33
297	250.00	29.76	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	1.93E-05	vist-11 #34
298	250.00	58.13	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	3.29E-05	vist-11 #35
299	250.00	100.47	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	7.70E-05	vist-11 #36
300	300.00	1.57	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	1.17E-02	vist-12 #1
301	300.00	3.72	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	2.50E-03	vist-12 #2
302	300.00	12.55	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	7.21E-03	vist-12 #3
303	300.00	29.76	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	2.55E-02	vist-12 #4
304	300.00	58.13	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	2.12E-02	vist-12 #5
305	300.00	100.47	72.00	80.00	76.00	50	0.71	1.49	1.00	1.00	1.00	1.10E-02	vist-12 #6
306	300.00	1.57	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	1.27E-03	vist-12 #7
307	300.00	3.72	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	7.71E-04	vist-12 #8
308	300.00	12.55	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	6.51E-04	vist-12 #9
309	300.00	29.76	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	4.53E-03	vist-12 #10
310	300.00	58.13	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	3.90E-03	vist-12 #11
311	300.00	100.47	144.00	160.00	152.00	50	0.71	1.49	1.00	1.00	1.00	4.08E-03	vist-12 #12
312	300.00	1.57	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	1.55E-02	vist-12 #13
313	300.00	3.72	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	1.12E-04	vist-12 #14
314	300.00	12.55	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	8.30E-05	vist-12 #15
315	300.00	29.76	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	2.17E-04	vist-12 #16
316	300.00	58.13	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	1.73E-04	vist-12 #17
317	300.00	100.47	325.00	360.00	342.50	50	0.71	1.49	1.00	1.00	1.00	2.68E-04	vist-12 #18
318	300.00	1.57	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	4.27E-04	vist-12 #19
319	300.00	3.72	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	5.91E-05	vist-12 #20
320	300.00	12.55	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	1.25E-04	vist-12 #21
321	300.00	29.76	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	6.22E-05	vist-12 #22
322	300.00	58.13	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	3.11E-04	vist-12 #23
323	300.00	100.47	617.00	682.00	649.50	50	0.71	1.49	1.00	1.00	1.00	8.38E-05	vist-12 #24
324	300.00	1.57	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	1.36E-04	vist-12 #25
325	300.00	3.72	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	7.59E-05	vist-12 #26
326	300.00	12.55	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	3.61E-05	vist-12 #27
327	300.00	29.76	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	5.47E-05	vist-12 #28
328	300.00	58.13	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	4.02E-05	vist-12 #29
329	300.00	100.47	1197.00	1323.00	1260.00	50	0.71	1.49	1.00	1.00	1.00	6.29E-05	vist-12 #30
330	300.00	1.57	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	7.94E-04	vist-12 #31

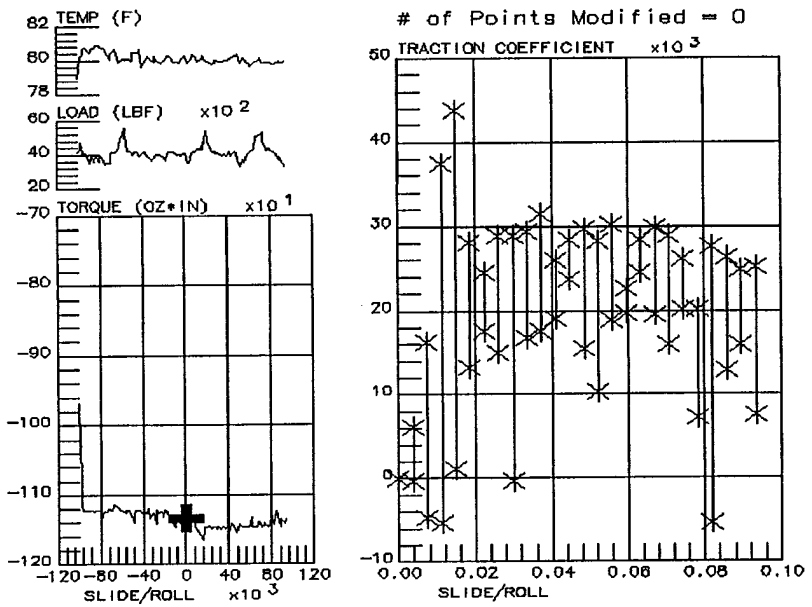
Data set: CC 89-180 Vistalube 7 ....continued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Pts	.....Calibration Factors..... Load1	Load2	Rpm1	Rpm2	Torq	SqDev	Dataset/Test #
331	300.00	3.72	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	3.10E-04	vist-12 #32
332	300.00	12.55	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	3.72E-05	vist-12 #33
333	300.00	29.76	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	1.21E-05	vist-12 #34
334	300.00	58.13	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	3.15E-05	vist-12 #35
335	300.00	100.47	2431.00	2687.00	2559.00	50	0.71	1.49	1.00	1.00	1.00	8.93E-05	vist-12 #36

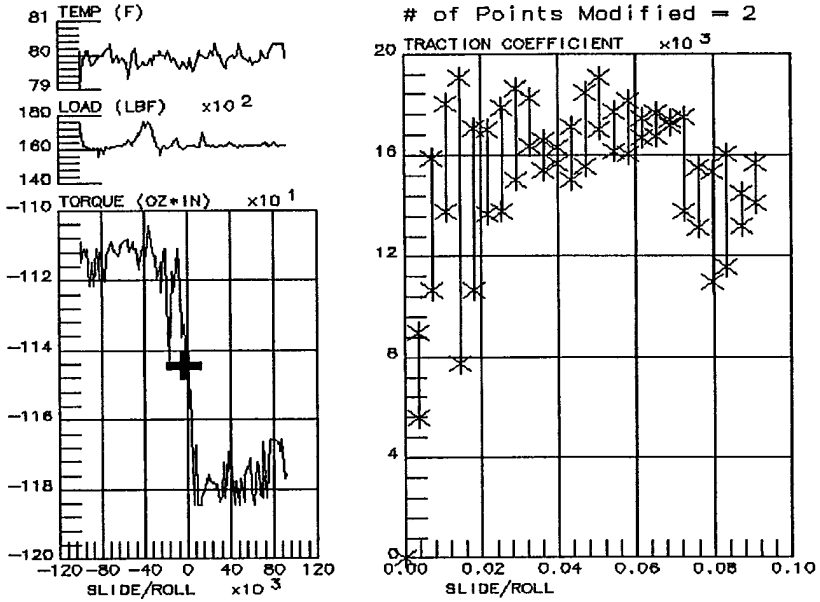
Summary of Select Data Files

Filename	Temp	RollRpm	DataCurve #			
cc1.dat	80.00	650.00	140	141	142	143
cc2.dat	80.00	1260.00	146	147	148	149
cc3.dat	80.00	2559.00	152	153	154	155
cc4.dat	80.00	5080.00	4	5	6	7
cc5.dat	80.00	7639.00	11	12	13	14
cc6.dat	80.00	10198.00	18	19	20	21
cc7.dat	100.00	650.00	176	177	178	179
cc8.dat	100.00	1260.00	182	183	184	185
cc9.dat	100.00	2559.00	188	189	190	191
cc10.dat	100.00	5080.00	24	25	26	27
cc11.dat	100.00	7639.00	30	31	32	33
cc12.dat	100.00	10198.00	36	37	38	39
cc13.dat	150.00	650.00	212	213	214	215
cc14.dat	150.00	1260.00	218	219	220	221
cc15.dat	150.00	2559.00	224	225	226	227
cc16.dat	150.00	5080.00	42	43	44	45
cc17.dat	150.00	7639.00	48	49	50	51
cc18.dat	150.00	10198.00	54	55	58	59
cc19.dat	200.00	650.00	248	249	250	251
cc20.dat	200.00	1260.00	254	255	256	257
cc21.dat	200.00	2559.00	260	261	262	263
cc22.dat	200.00	5080.00	62	63	64	65
cc23.dat	200.00	7639.00	68	69	70	71
cc24.dat	200.00	10198.00	74	75	76	77
cc25.dat	250.00	650.00	284	285	286	287
cc26.dat	250.00	1260.00	290	291	292	293
cc27.dat	250.00	2559.00	296	297	298	299
cc28.dat	250.00	5080.00	81	82	83	84
cc29.dat	250.00	7639.00	88	89	90	91
cc30.dat	250.00	10198.00	95	96	97	98
cc31.dat	300.00	650.00	320	321	322	323
cc32.dat	300.00	1260.00	326	327	328	329
cc33.dat	300.00	2559.00	332	333	334	335
cc34.dat	300.00	5080.00	102	103	104	105
cc35.dat	300.00	7639.00	109	110	111	112
cc36.dat	300.00	10198.00	116	117	118	119

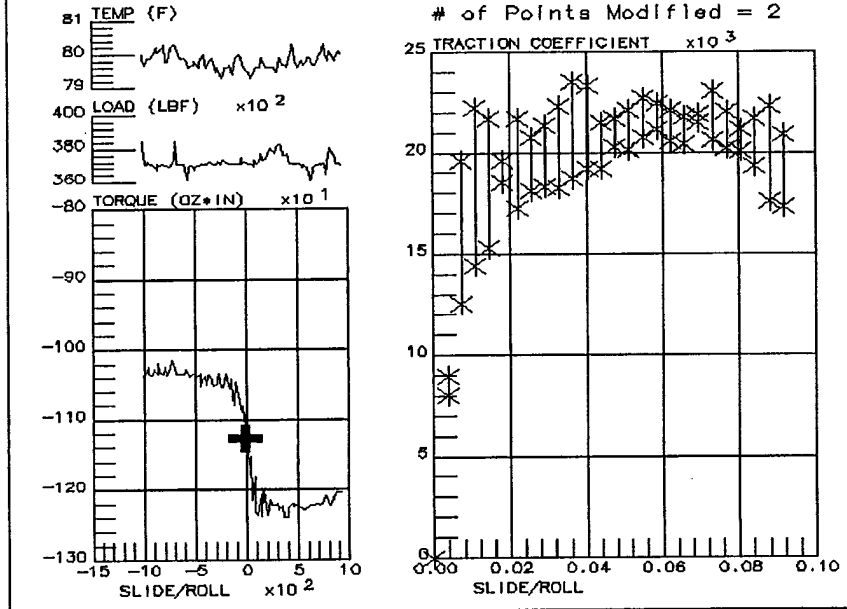
CC 89-180 Vistalube 7 #1
80F 0LBF 5080RPM 1 FILE: vist-01



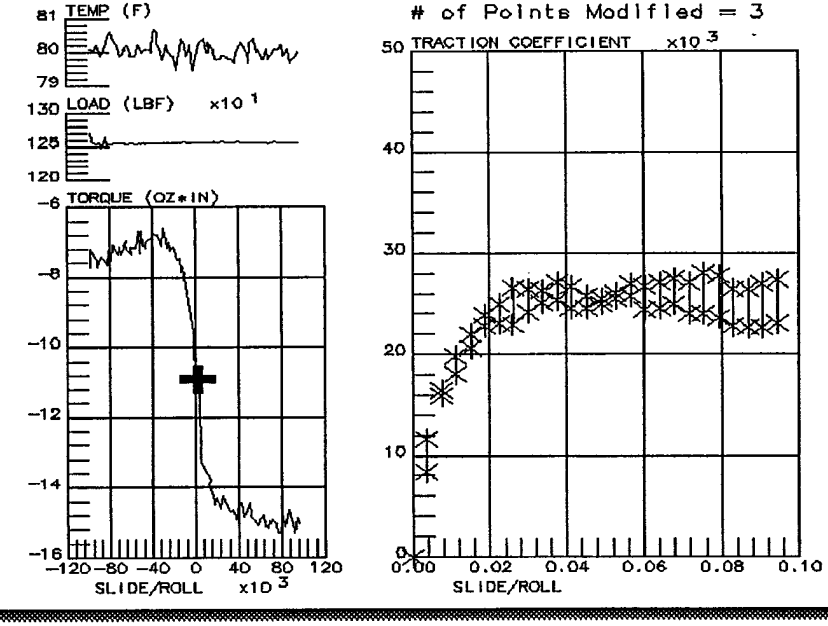
CC 89-180 Vistalube 7 #2
80F 2LBF 5080RPM 2 FILE: vist-01



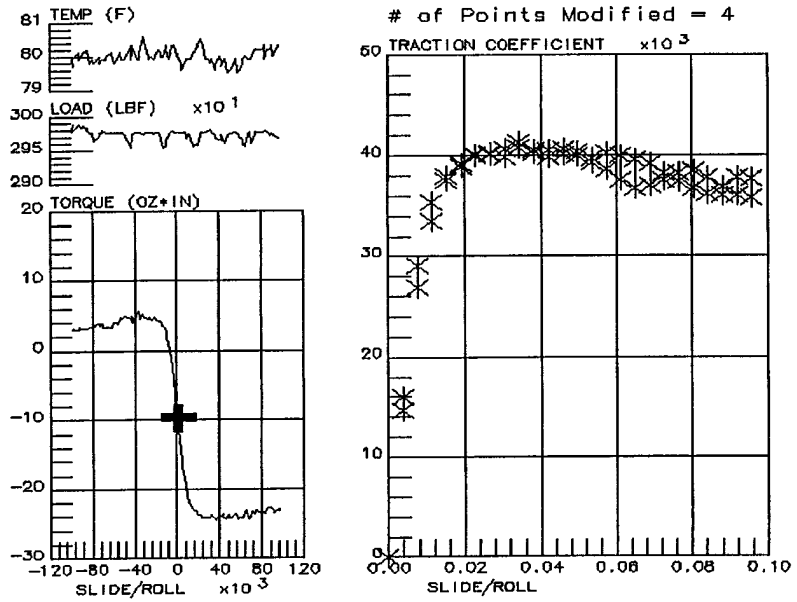
CC 89-180 Vistalube 7 #3
80F 4LBF 5080RPM 3 FILE: vist-01



CC 89-180 Vistalube 7 #4
80F 13LBF 5080RPM 4 FILE: vist-01

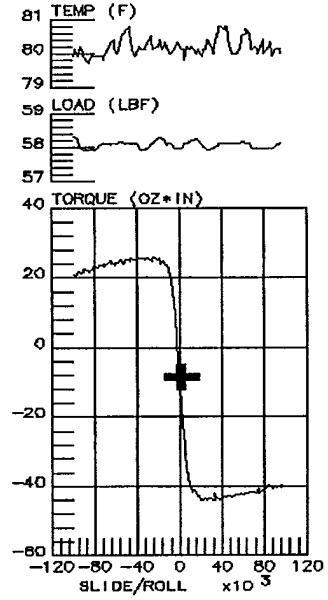


CC 89-180 Vistalube 7 #5
80F 30LBF 5080RPM 5 FILE: vist-01

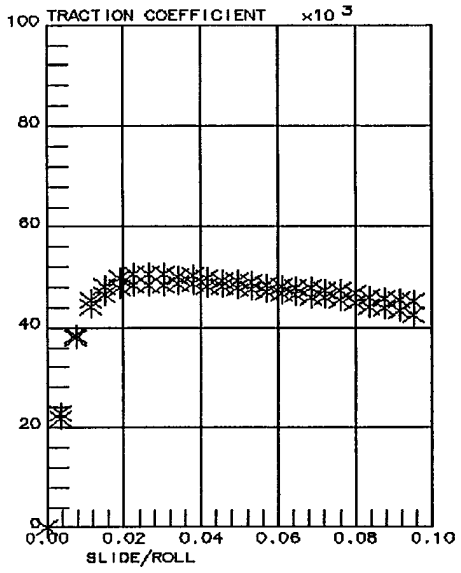


# of Points Modified = 4

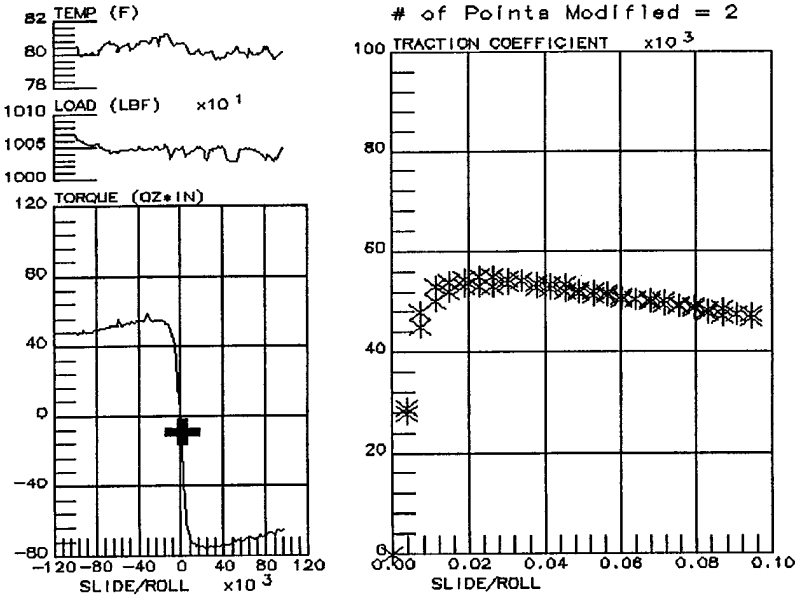
CC 89-180 Vistalube 7 #6
80F 58LBF 5080RPM 6 FILE: vist-01



# of Points Modified = 1



CC 89-180 Vistalube 7 #7
80F 100LBF 5080RPM 7 FILE: vist-01



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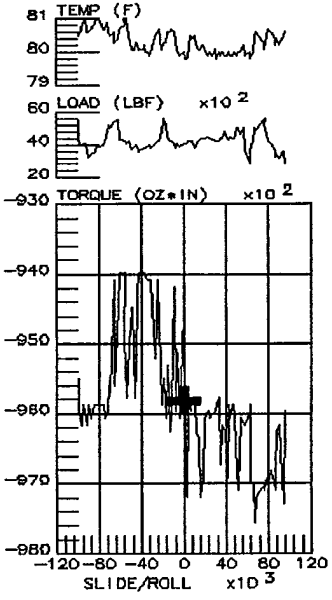
CC 89-180 Vistalube 7 #8
80F 0LBF 7639RPM 8 FILE: vist-01



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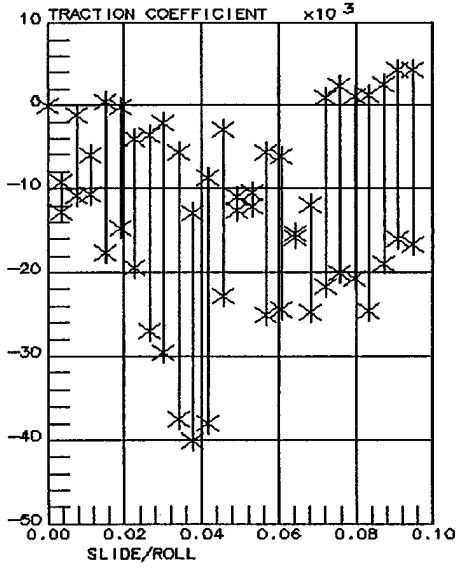
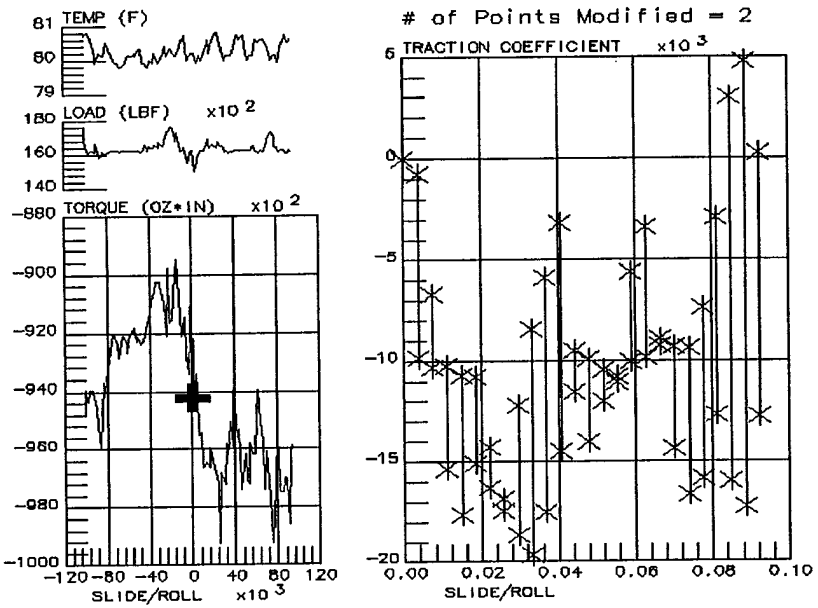


CC 89-180 Vistalube 7 #9
80F 2LBF 7639RPM 9 FILE: vist-01



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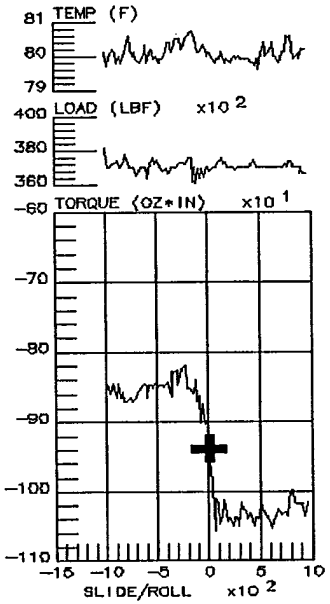
CC 89-180 Vistalube 7 #10
80F 4LBF 7639RPM 10 FILE: vist-01



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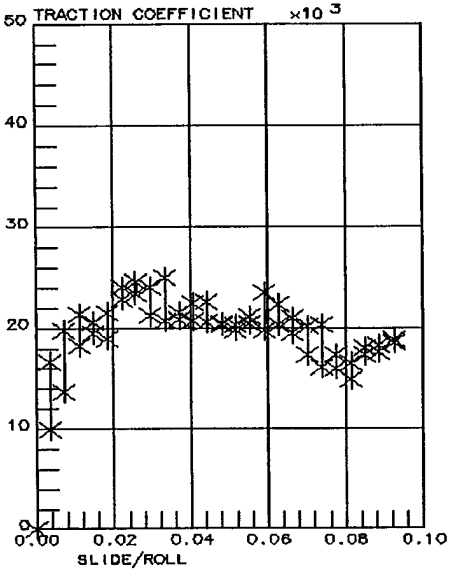
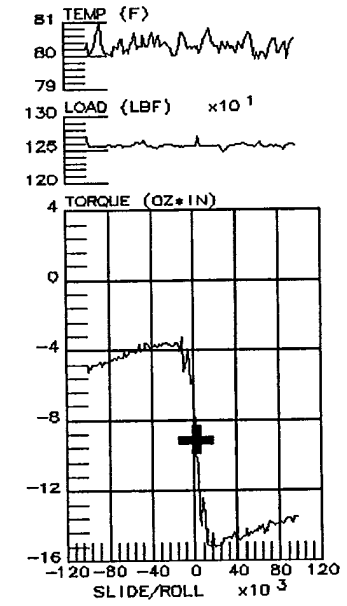


CC 89-180 Vistalube 7 #11
80F 13LBF 7639RPM 11 FILE: vist-01



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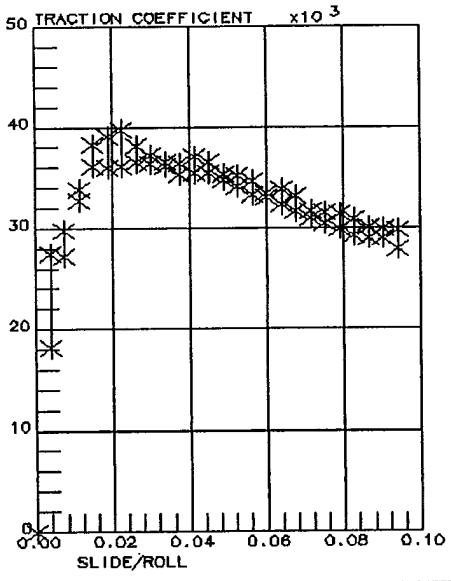
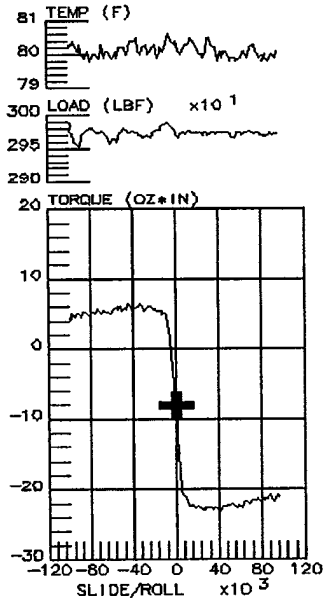


CC 89-180 Vistalube 7 #12
80F 30LBF 7639RPM 12 FILE: vist-01



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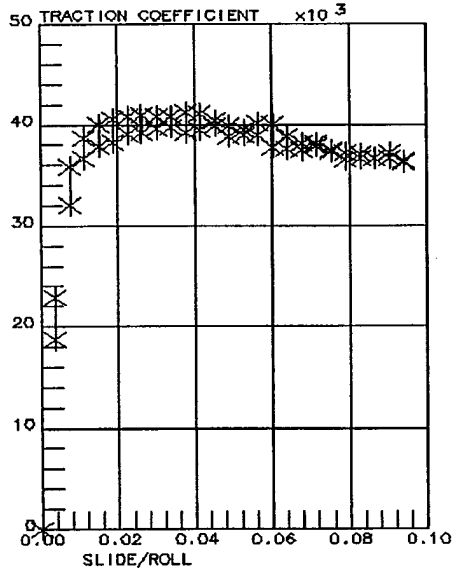

CC 89-180 Vistalube 7 #13
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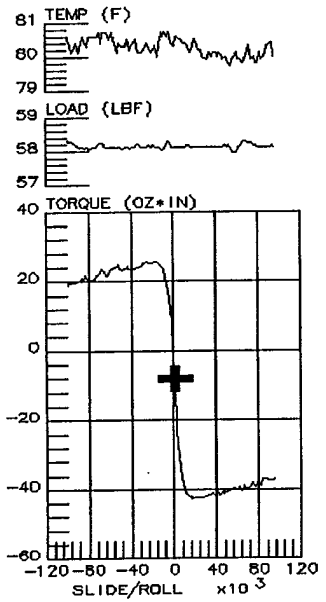
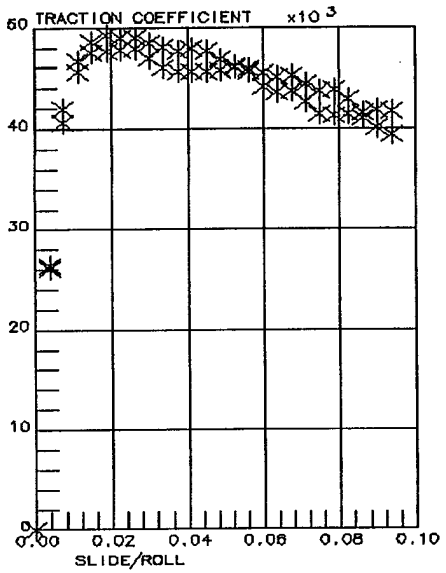
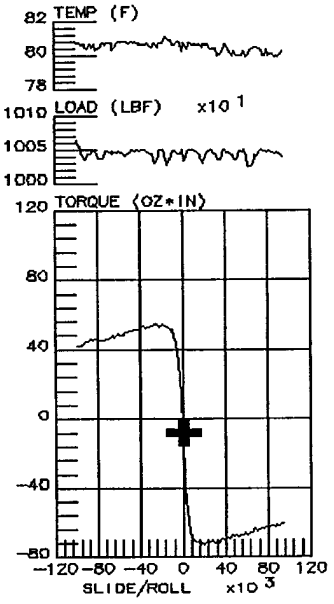
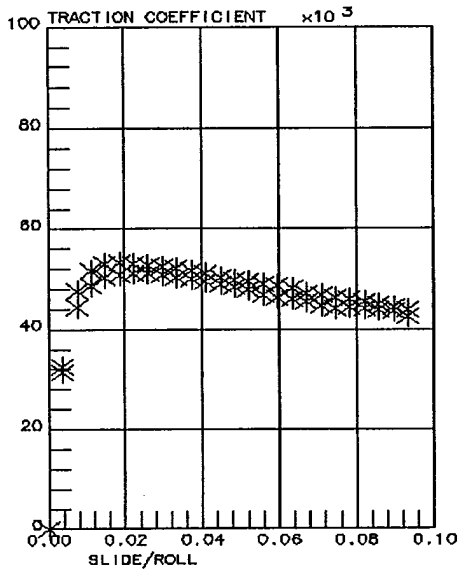


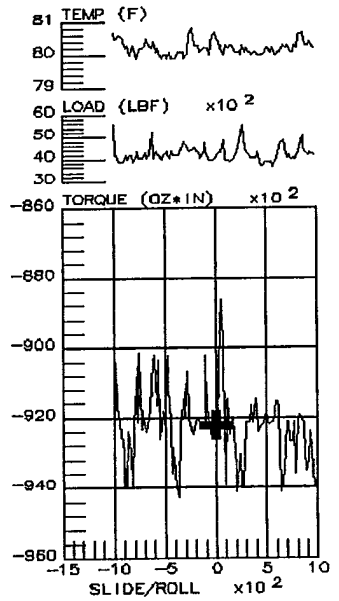


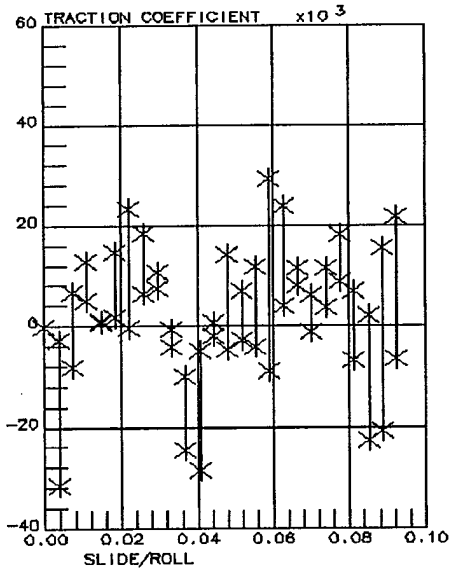
CC 89-180 Vistalube 7 #14
80F 100LBF 7639RPM 14 FILE: vist-01



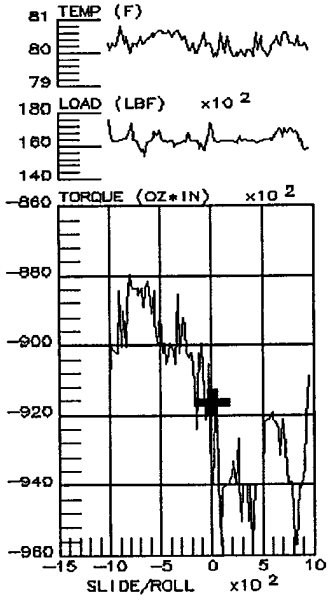


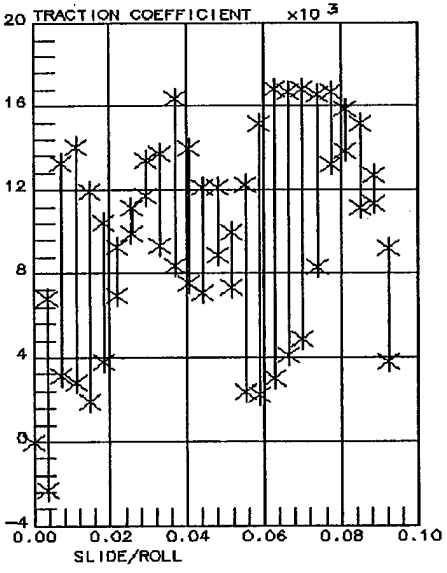
CC 89-180 Vistalube 7 #15
80F 0LBF 10198RPM 15 FILE: vist-01



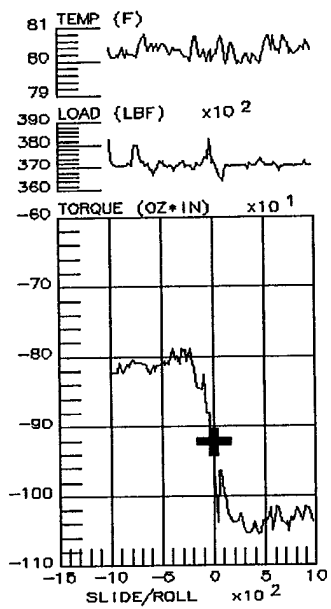


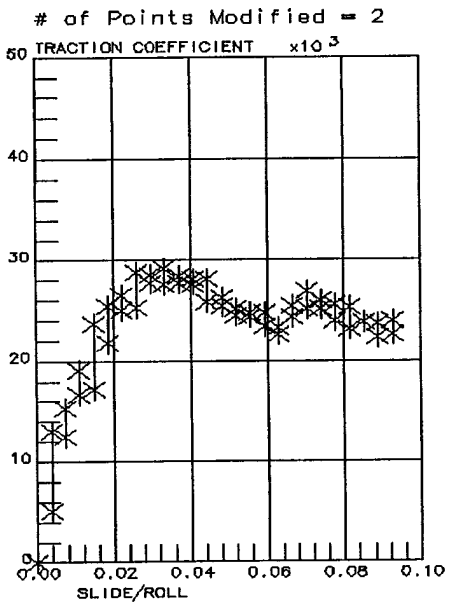
CC 89-180 Vistalube 7 #16
80F 2LBF 10198RPM 16 FILE: vist-01



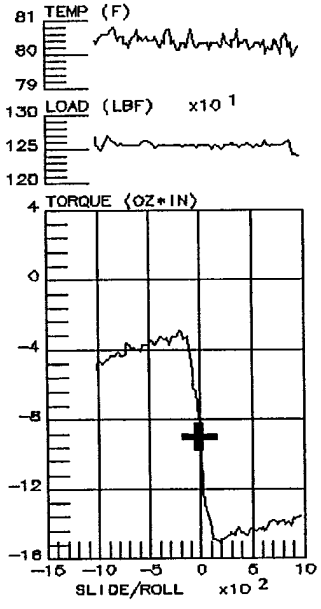


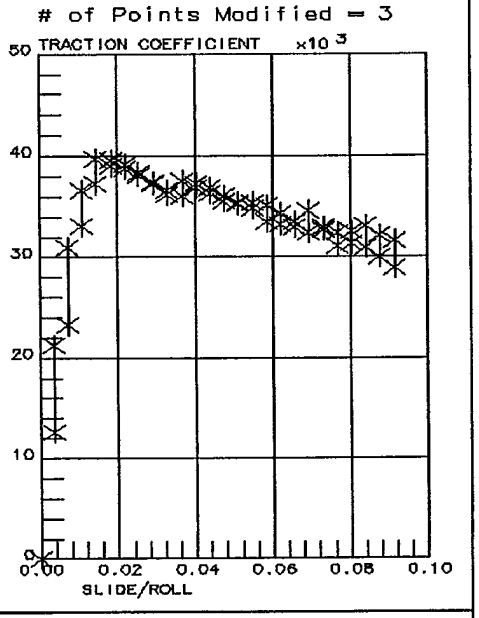
CC 89-180 Vistalube 7 #17
80F 4LBF 10198RPM 17 FILE: vist-01



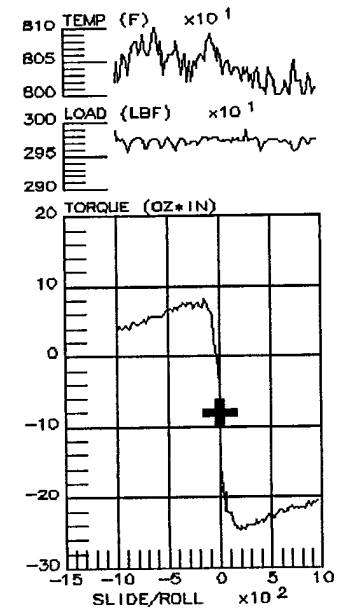


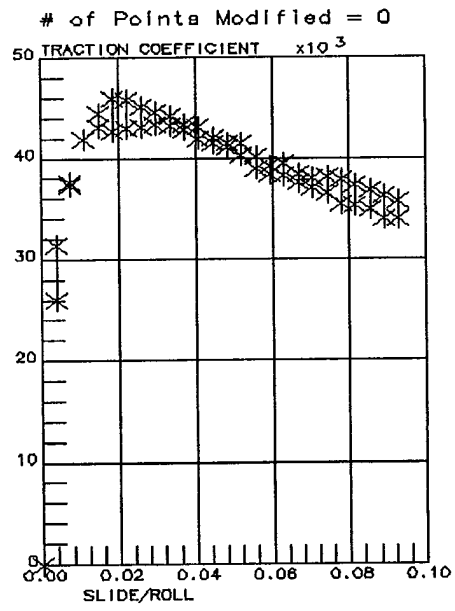
CC 89-180 Vistalube 7 #18
80F 13LBF 10198RPM 18 FILE: vist-01



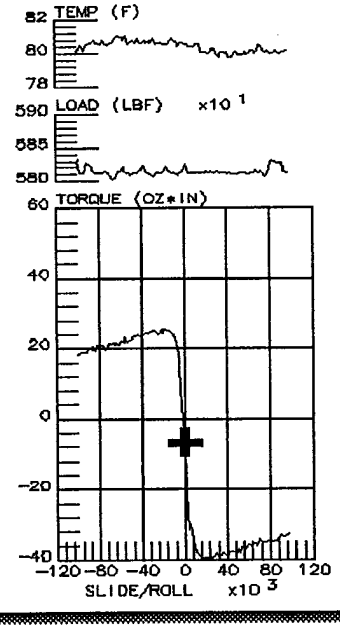


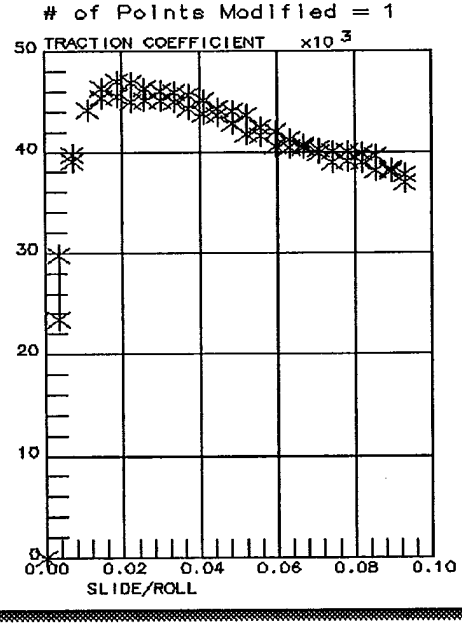
CC 89-180 Vistalube 7 #19
80F 30LBF 10198RPM 19 FILE: vist-01



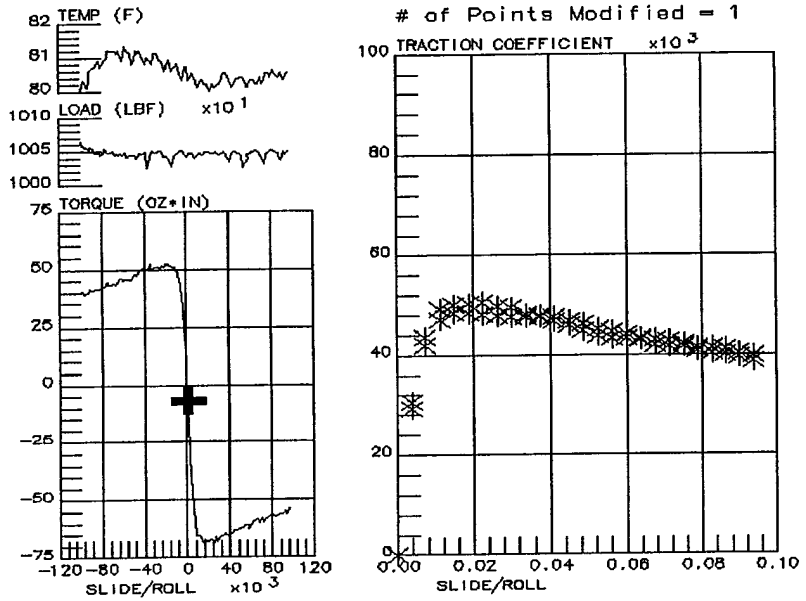


CC 89-180 Vistalube 7 #20
80F 58LBF 10198RPM 20 FILE: vist-01

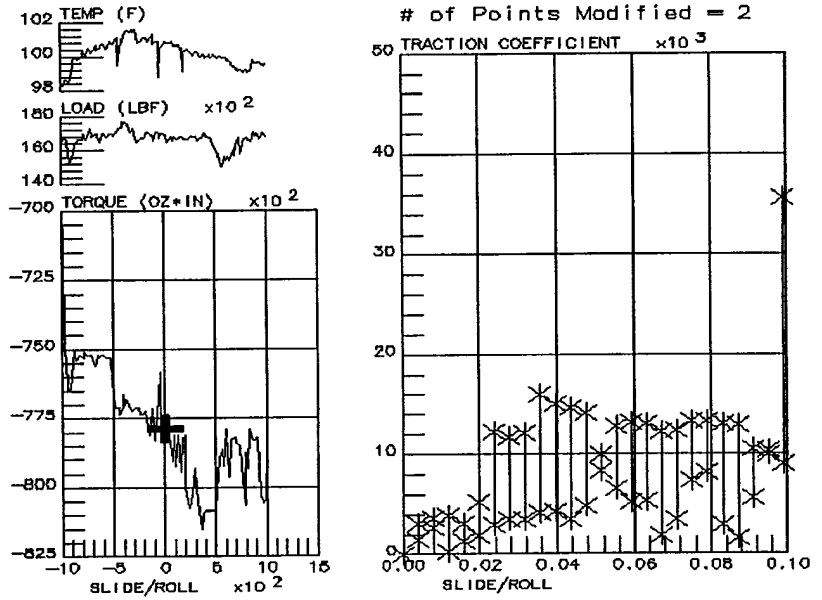




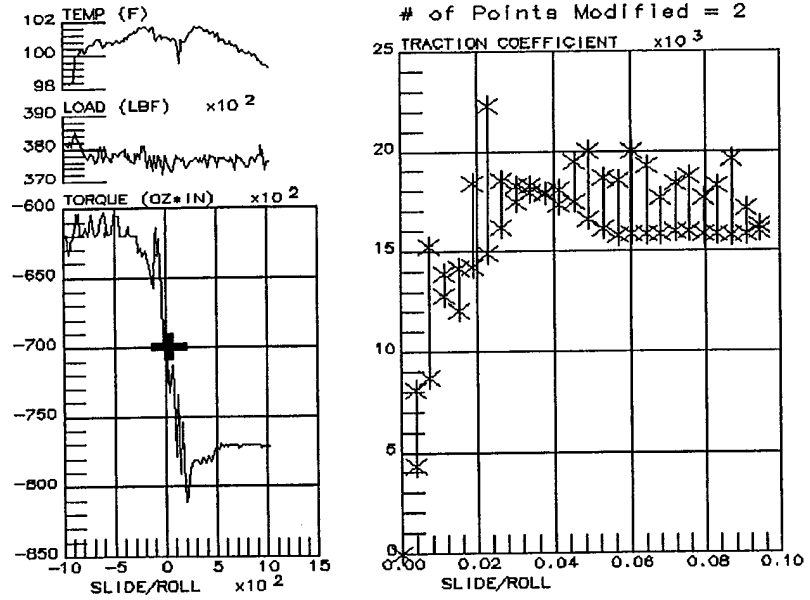
CC 89-180 Vistalube 7 #21
80F 100LBF 10198RPM 21 FILE: vist-01



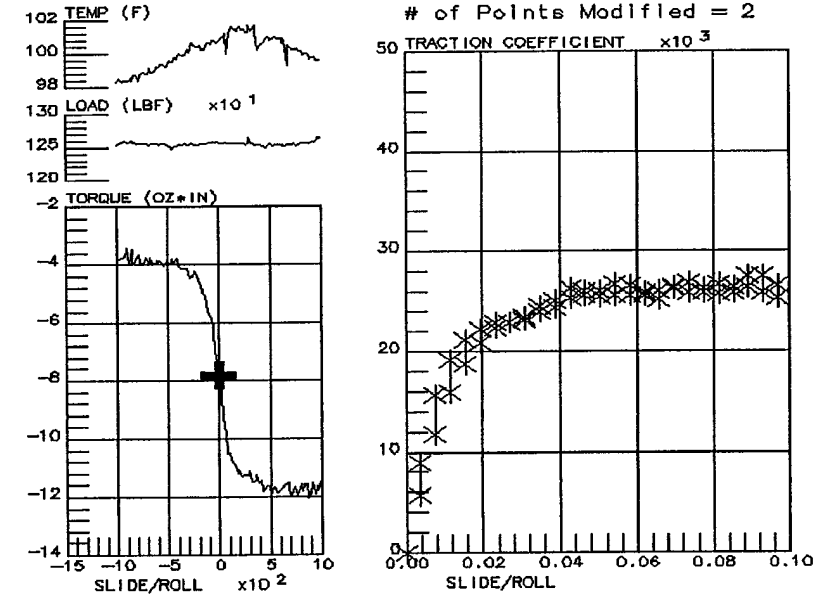
CC 89-180 Vistalube 7 #22
100F 2LBF 5080RPM 1 FILE: vist-02



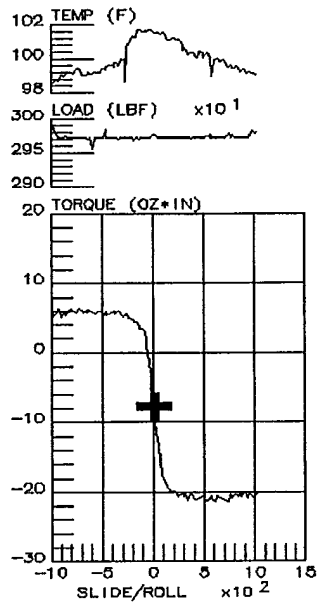
CC 89-180 Vistalube 7 #23
100F 4LBF 5080RPM 2 FILE: vist-02



CC 89-180 Vistalube 7 #24
100F 13LBF 5080RPM 3 FILE: vist-02



CC 89-180 Vistalube 7 #25
100F 30LBF 5080RPM 4 FILE: vist-02



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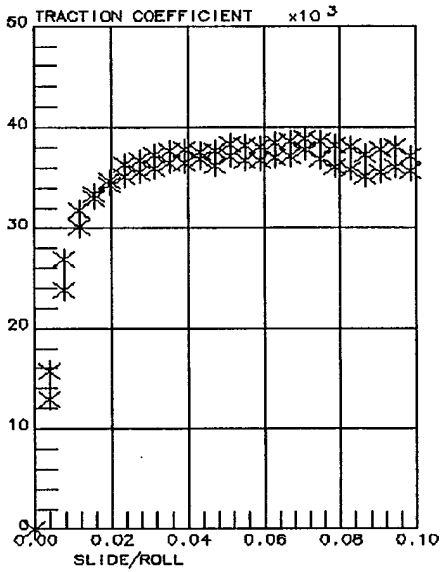
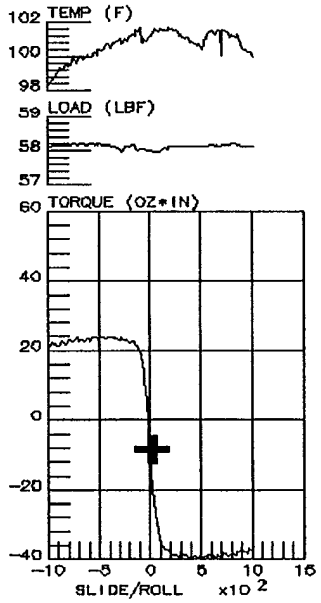


CC 89-180 Vistalube 7 #26
100F 58LBF 5080RPM 5 FILE: vist-02



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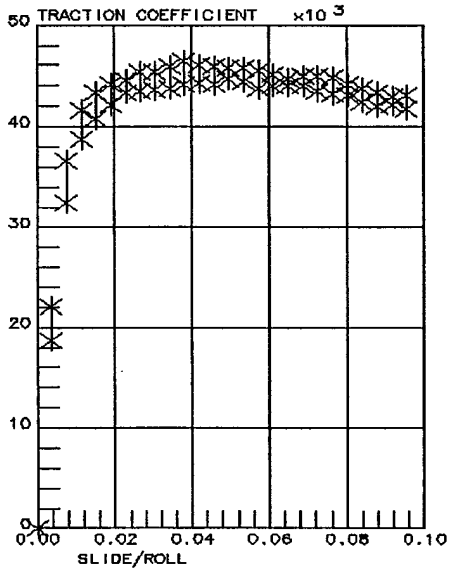
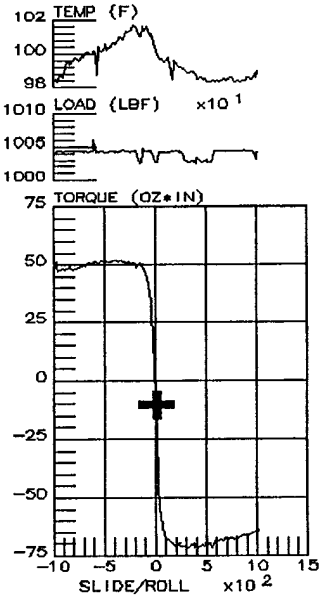


CC 89-180 Vistalube 7 #27
100F 100LBF 5080RPM 6 FILE: vist-02



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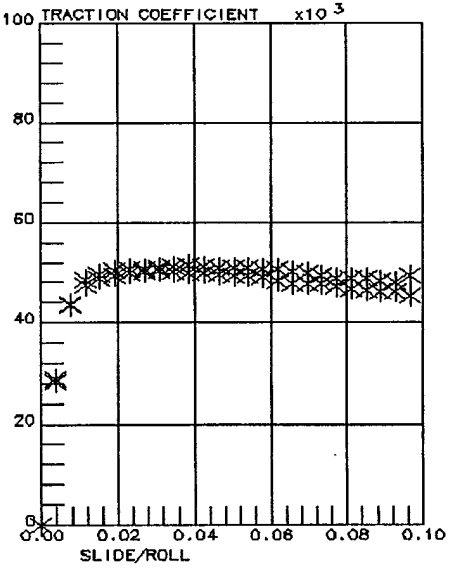
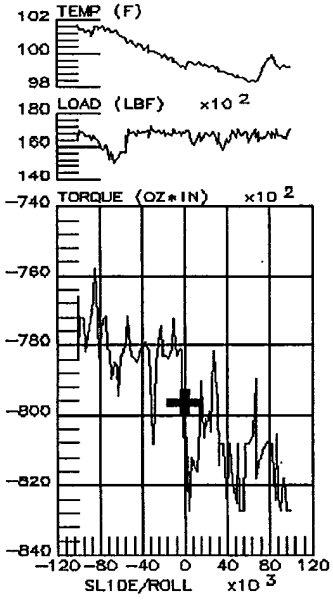


CC 89-180 Vistalube 7 #28
100F 2LBF 7639RPM 7 FILE: vist-02



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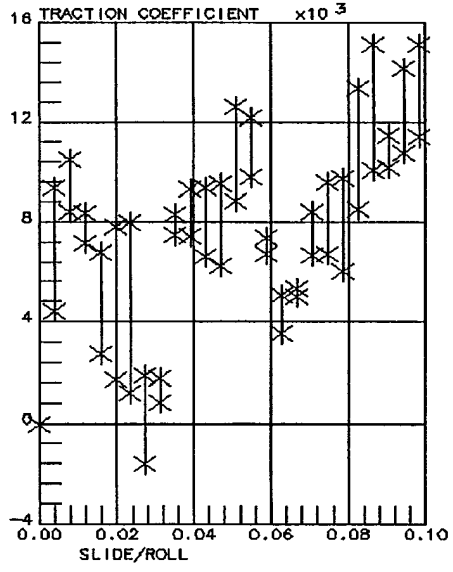
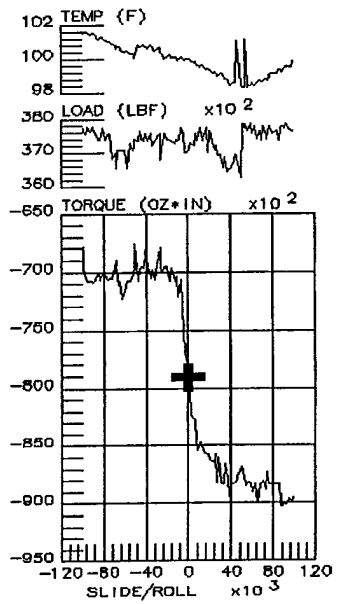


CC 89-180 Vistalube 7 #29
100F 4LBF 7639RPM 8 FILE: vist-02



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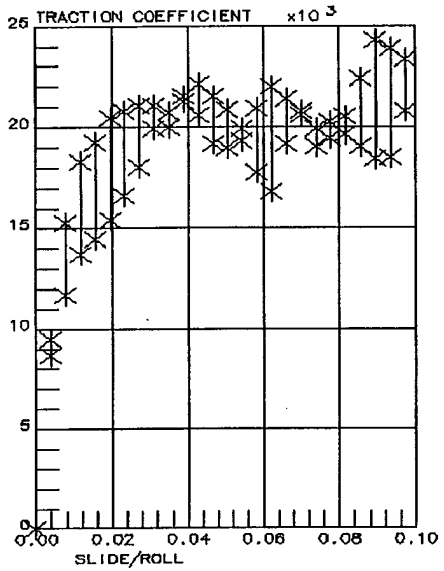
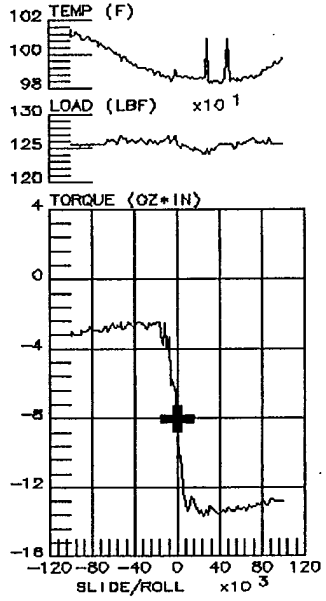


CC 89-180 Vistalube 7 #30
100F 13LBF 7639RPM 9 FILE: vist-02



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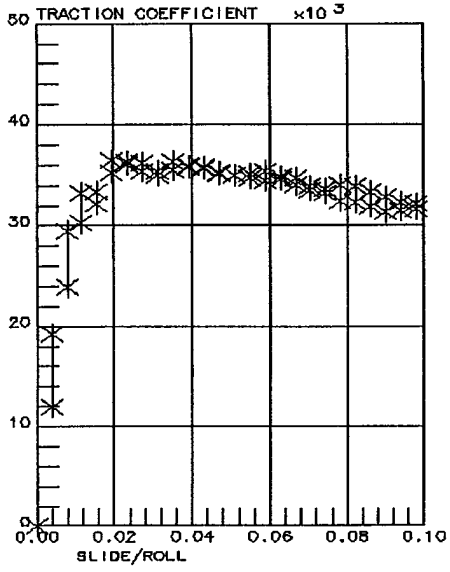
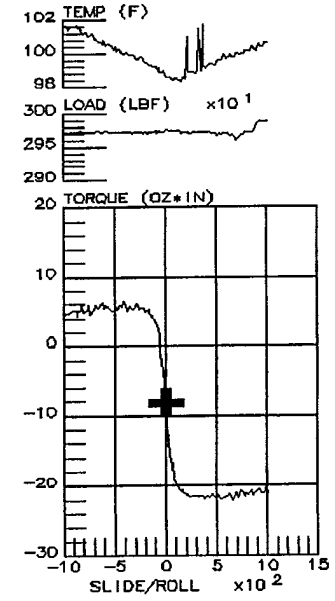


CC 89-180 Vistalube 7 #31
100F 30LBF 7639RPM 10 FILE: vist-02



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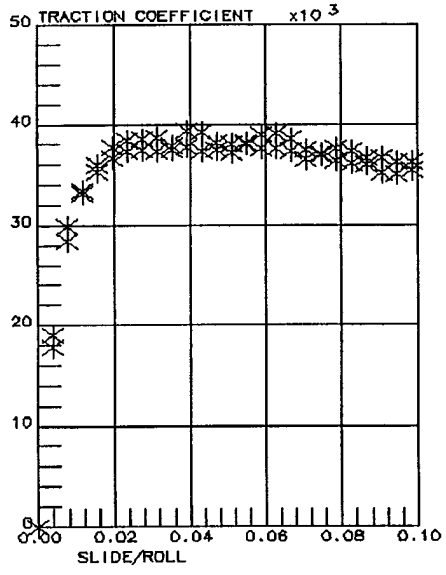
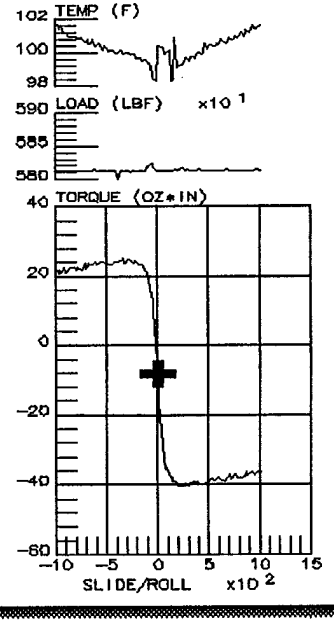


CC 89-180 Vistalube 7 #32
100F 58LBF 7639RPM 11 FILE: vist-02



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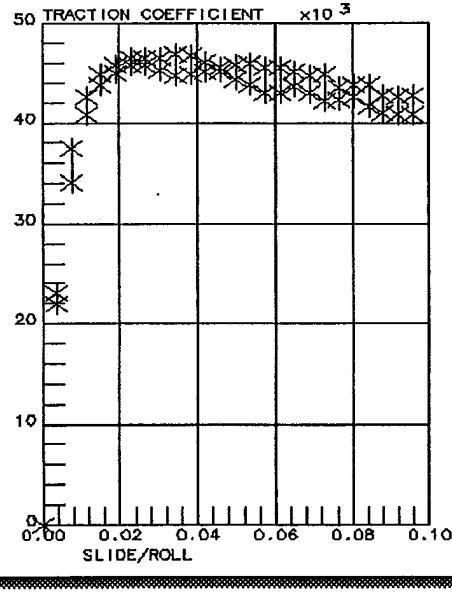
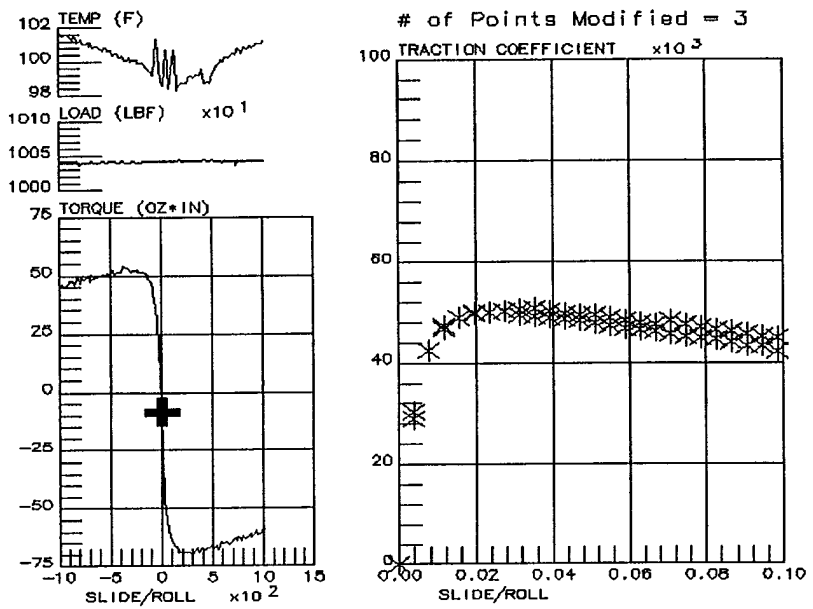
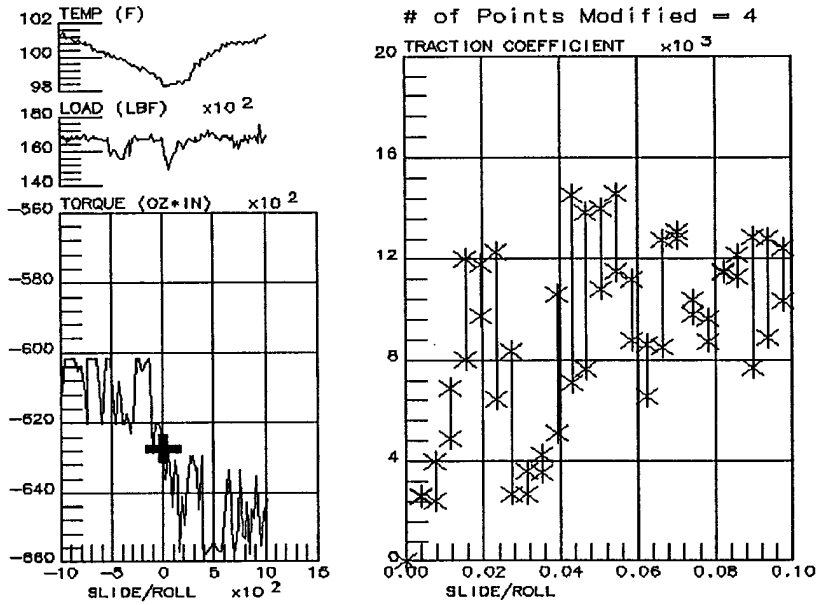


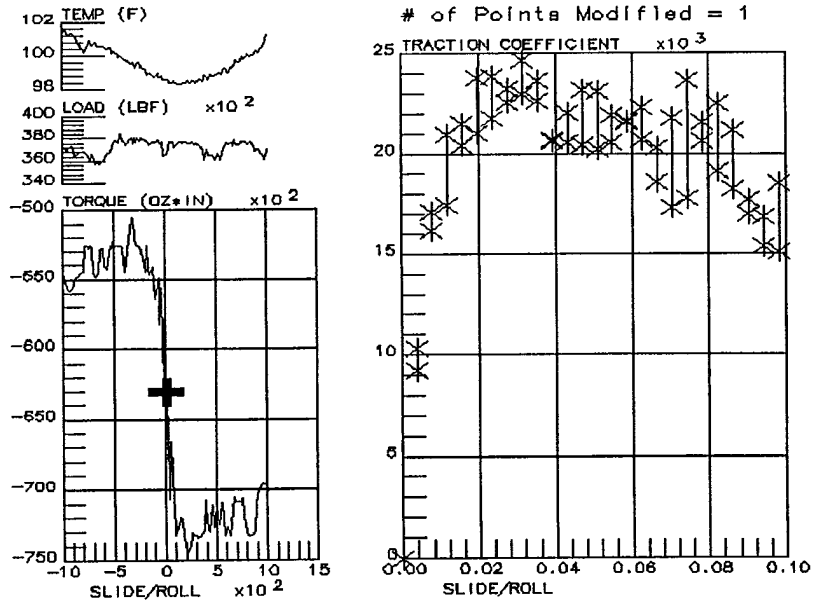
CC 89-180 Vistalube 7 #33
100F 100LBF 7639RPM 12 FILE: vist-02



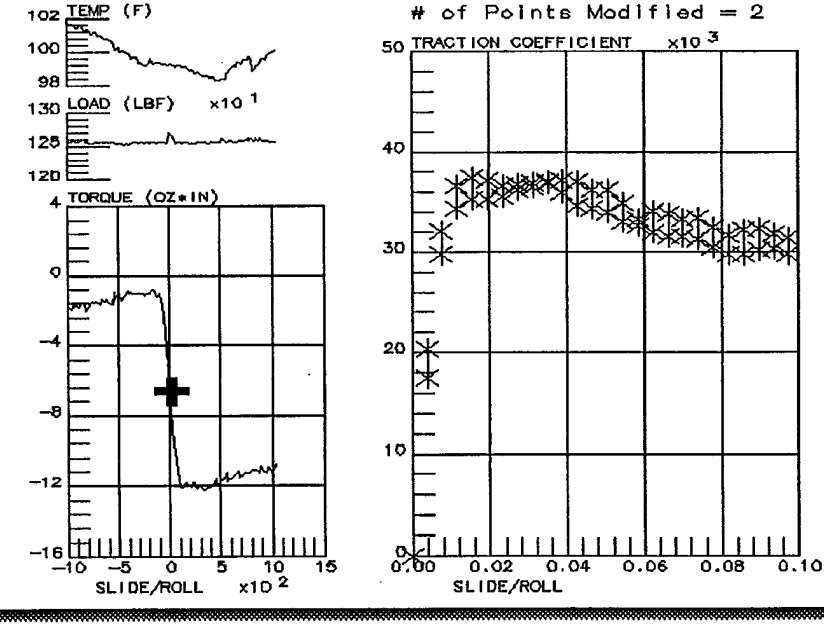
CC 89-180 Vistalube 7 #34
100F 2LBF 10198RPM 13 FILE: vist-02



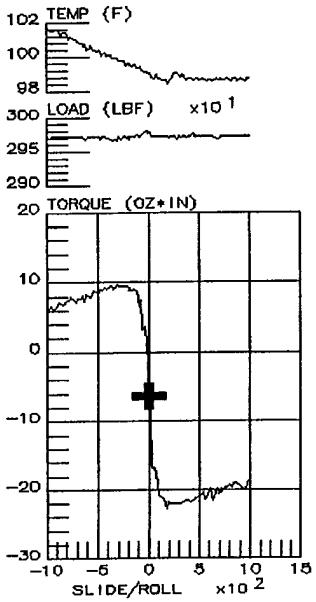
CC 89-180 Vistalube 7 #35
100F 4LBF 10198RPM 14 FILE: vist-02



CC 89-180 Vistalube 7 #36
100F 13LBF 10198RPM 15 FILE: vist-02



CC 89-180 Vistalube 7 #37
100F 30LBF 10198RPM 16 FILE: vist-02



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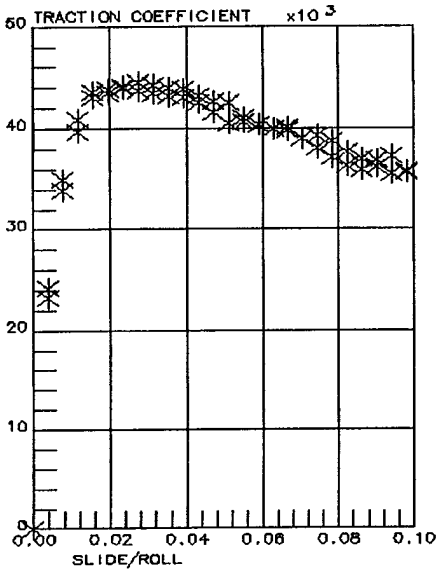
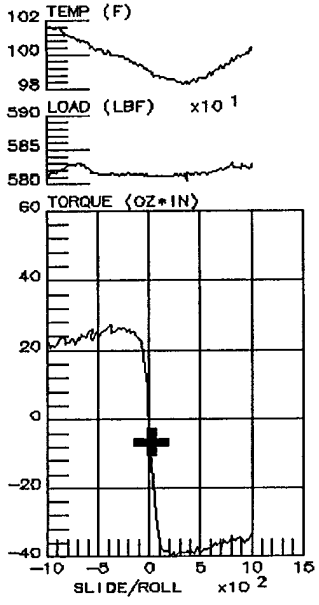


CC 89-180 Vistalube 7 #38
100F 58LBF 10198RPM 17 FILE: vist-02



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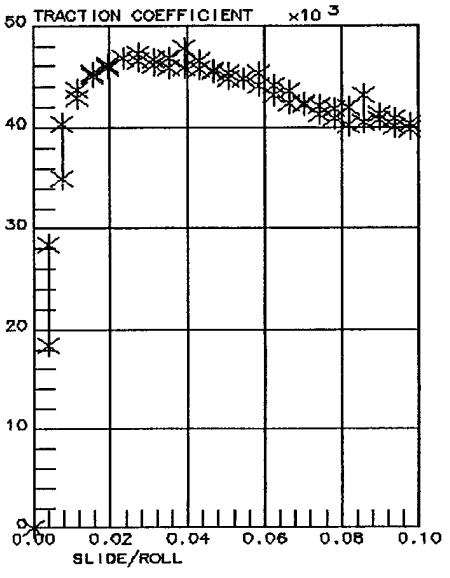
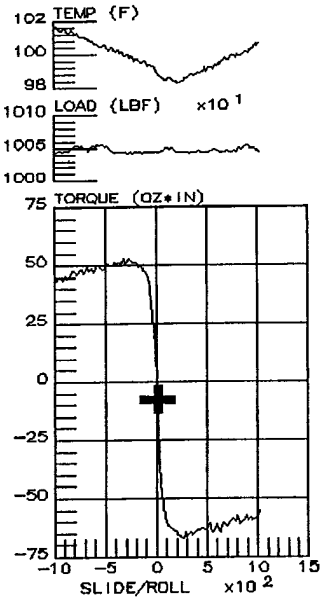


CC 89-180 Vistalube 7 #39
100F 100LBF 10198RPM 18 FILE: vist-02



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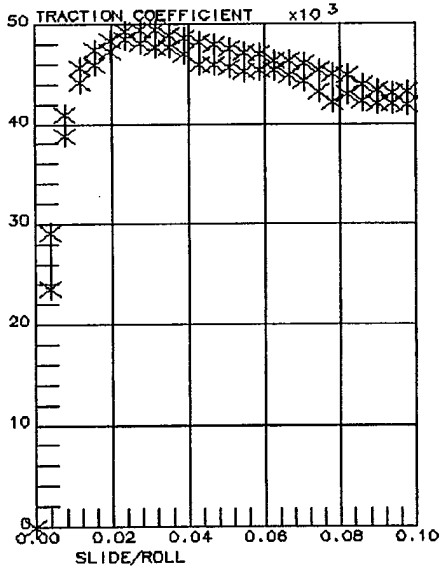
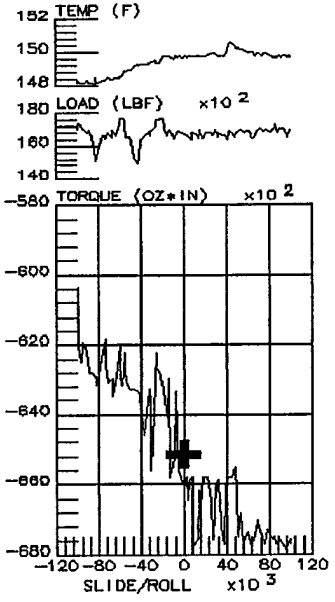


CC 89-180 Vistalube 7 #40
150F 2LBF 5080RPM 1 FILE: vist-03



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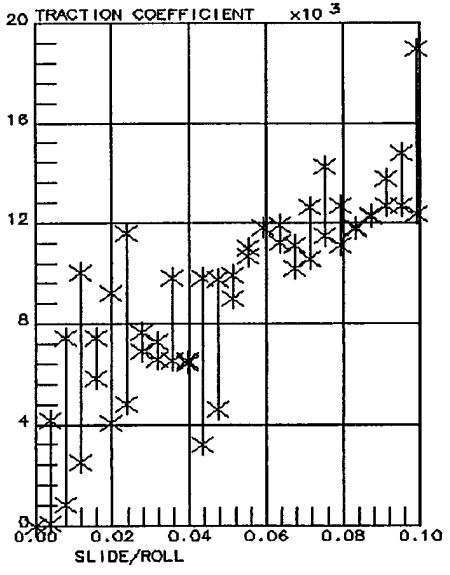
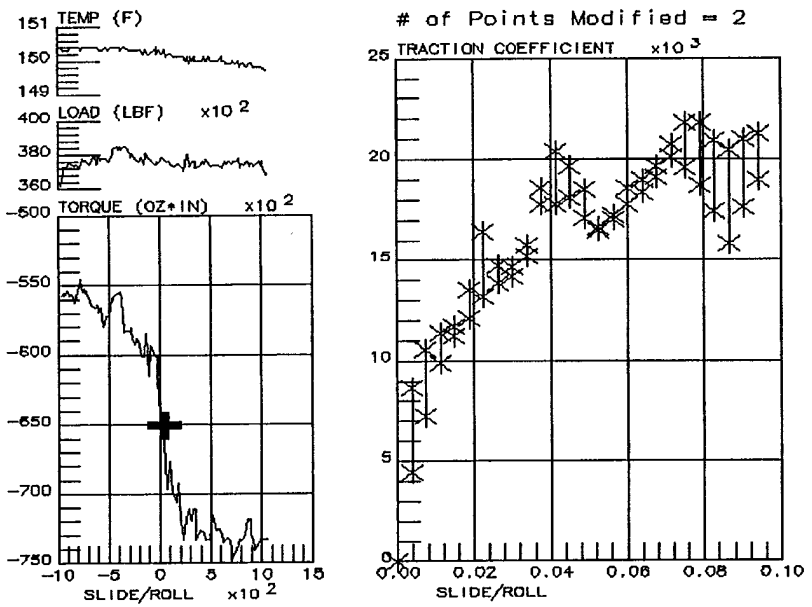
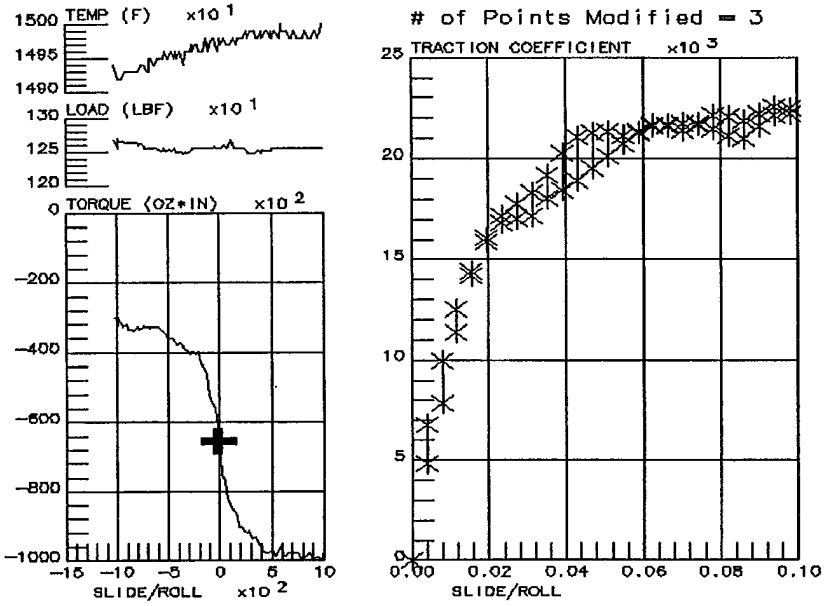


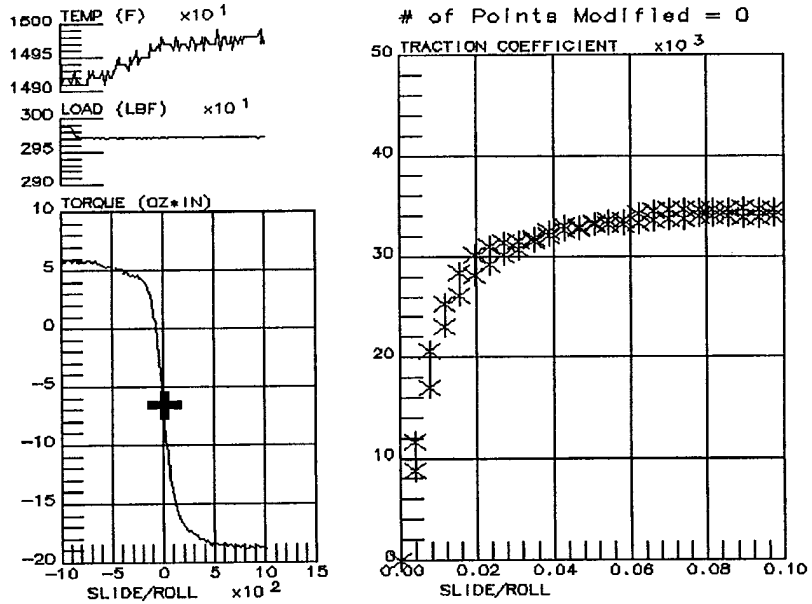
CC 89-180 Vistalube 7 #41
150F 4LBF 5080RPM 2 FILE: vist-03



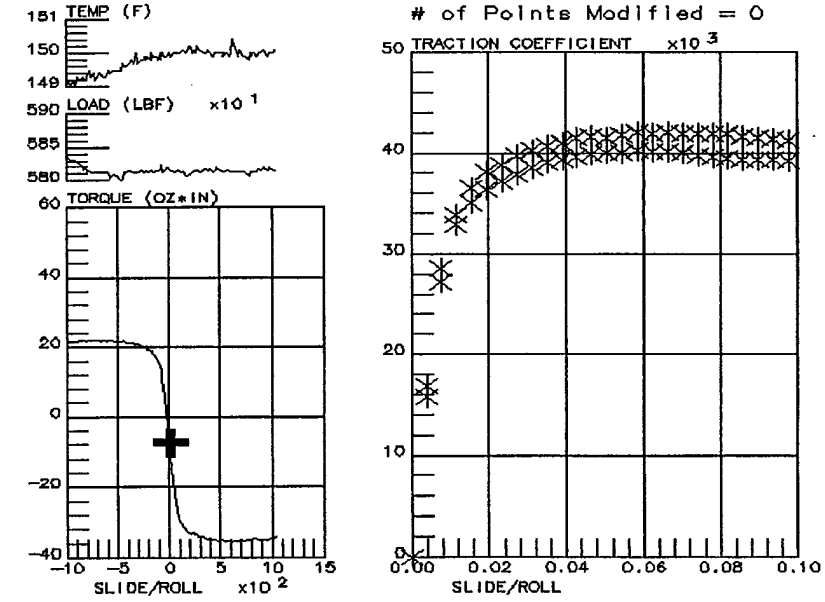
CC 89-180 Vistalube 7 #42
150F 13LBF 5080RPM 3 FILE: vist-03



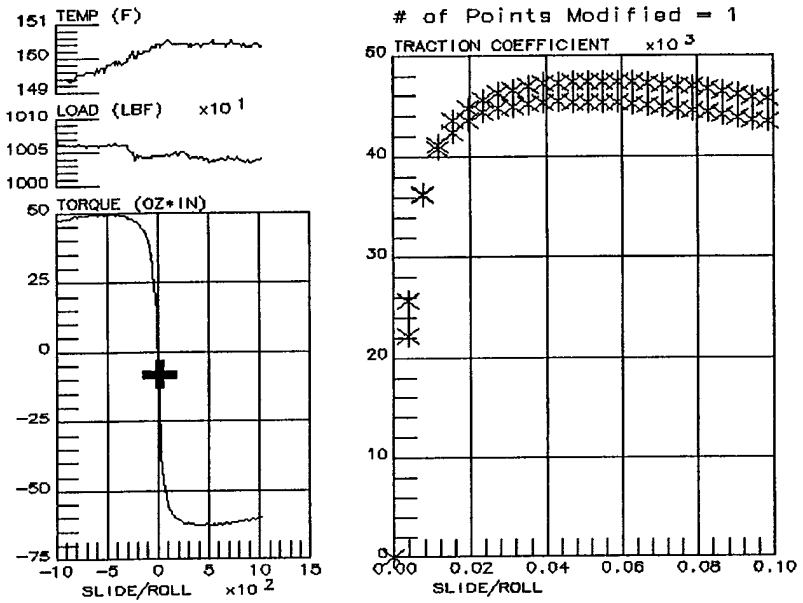
CC 89-180 Vistalube 7 #43
150F 30LBF 5080RPM 4 FILE: vist-03



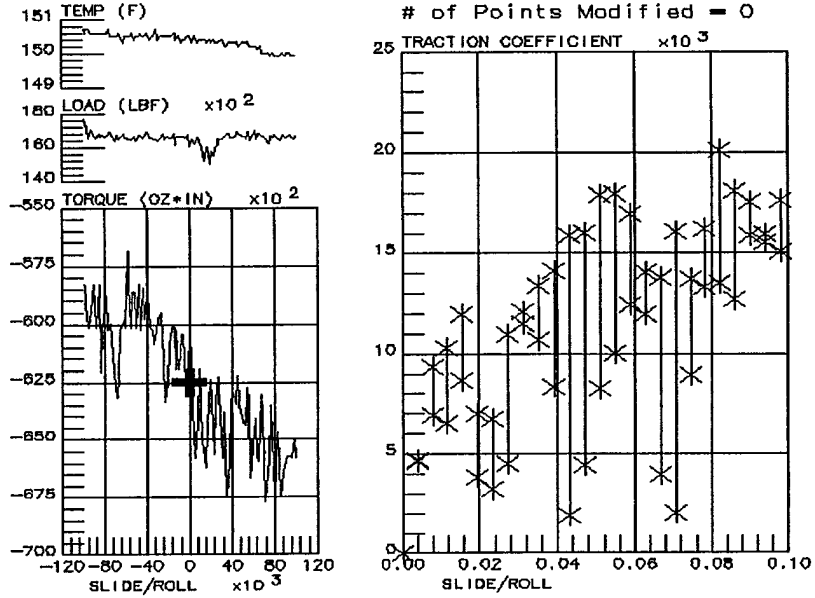
CC 89-180 Vistalube 7 #44
150F 58LBF 5080RPM 5 FILE: vist-03



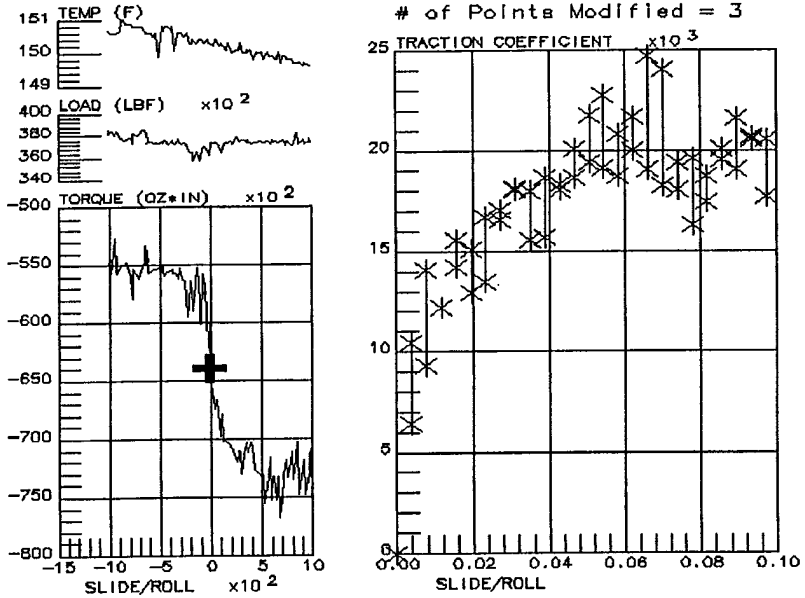
CC 89-180 Vistalube 7 #45
150F 100LBF 5080RPM 6 FILE: vist-03



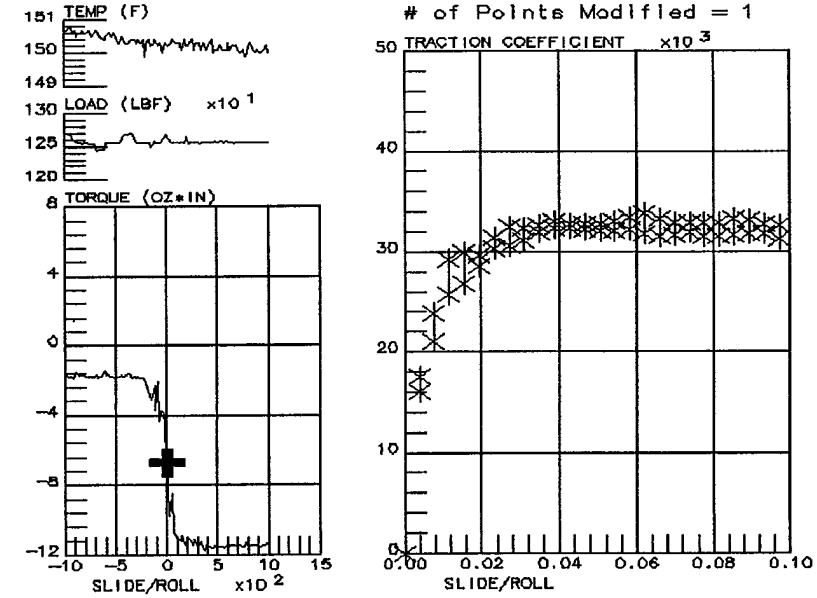
CC 89-180 Vistalube 7 #46
150F 2LBF 7639RPM 7 FILE: vist-03



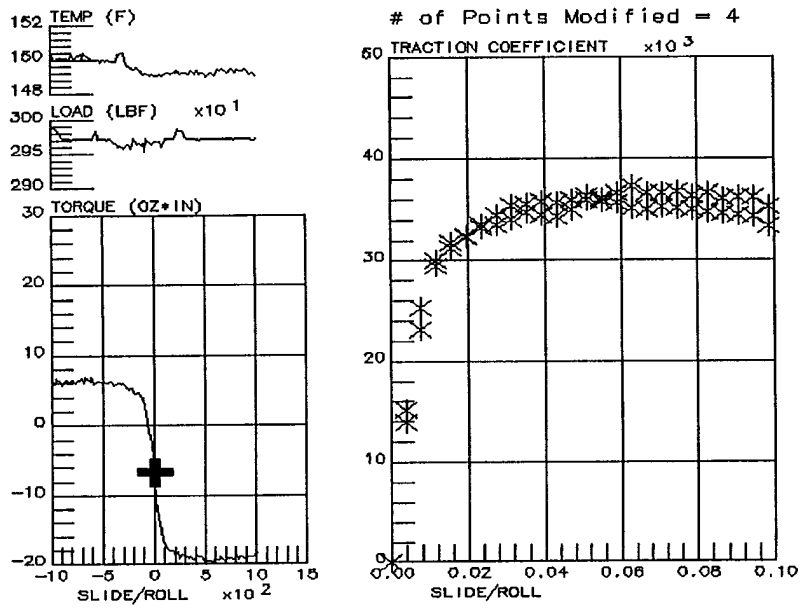
CC 89-180 Vistalube 7 #47
150F 4LBF 7639RPM 8 FILE: vist-03



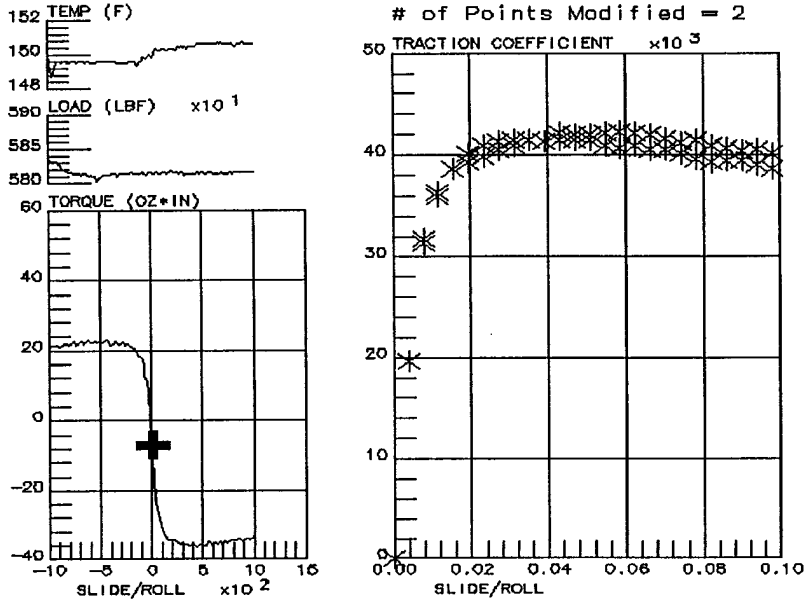
CC 89-180 Vistalube 7 #48
150F 13LBF 7639RPM 9 FILE: vist-03



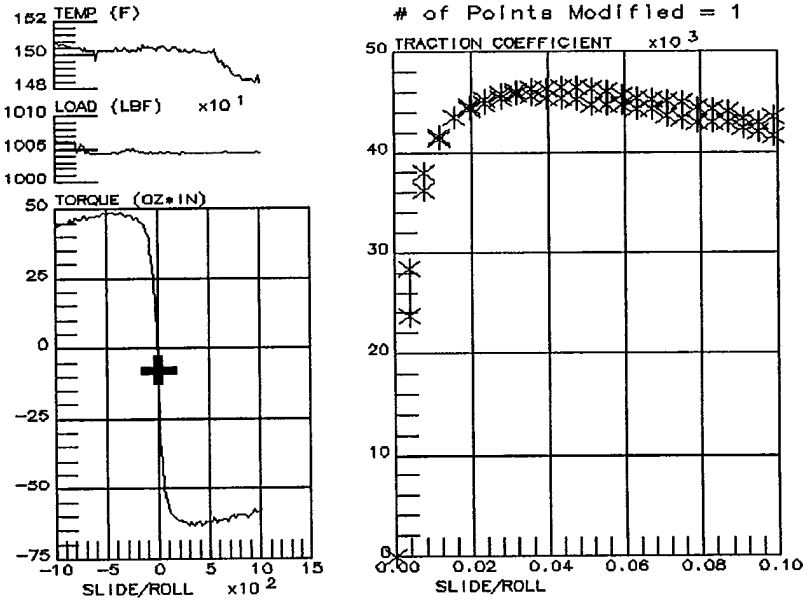
CC 89-180 Vistalube 7 #49
150F 30LBF 7639RPM 10 FILE: vist-03



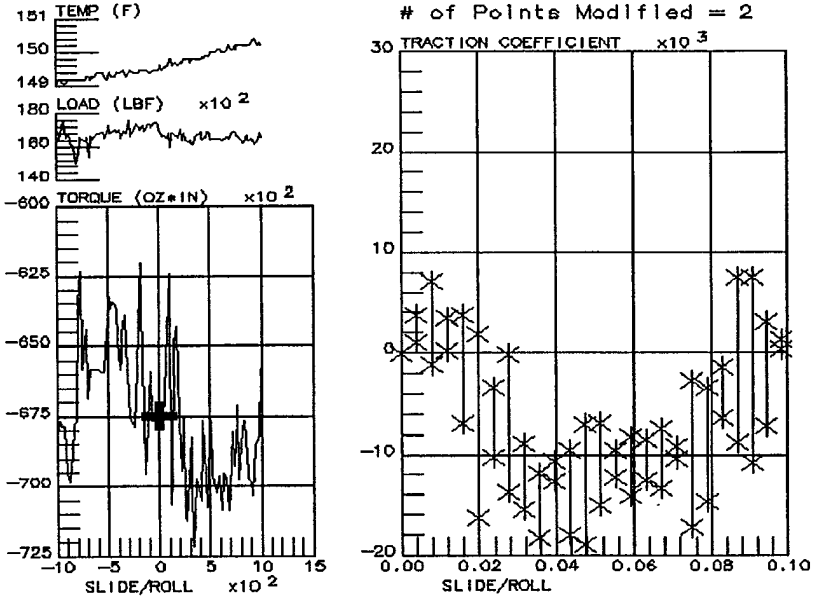
CC 89-180 Vistalube 7 #50
150F 58LBF 7639RPM 11 FILE: vist-03



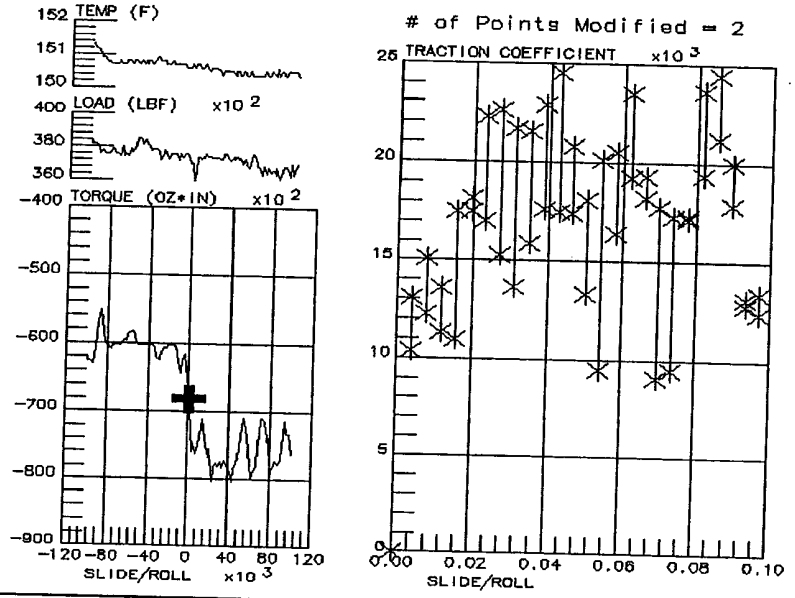
CC 89-180 Vistalube 7 #51
150F 100LBF 7639RPM 12 FILE: vist-03



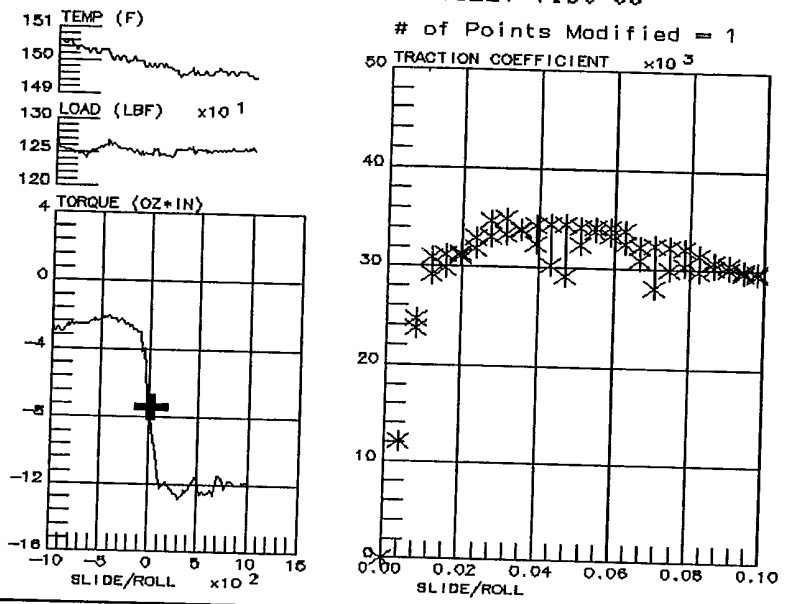
CC 89-180 Vistalube 7 #52
150F 2LBF 10198RPM 13 FILE: vist-03



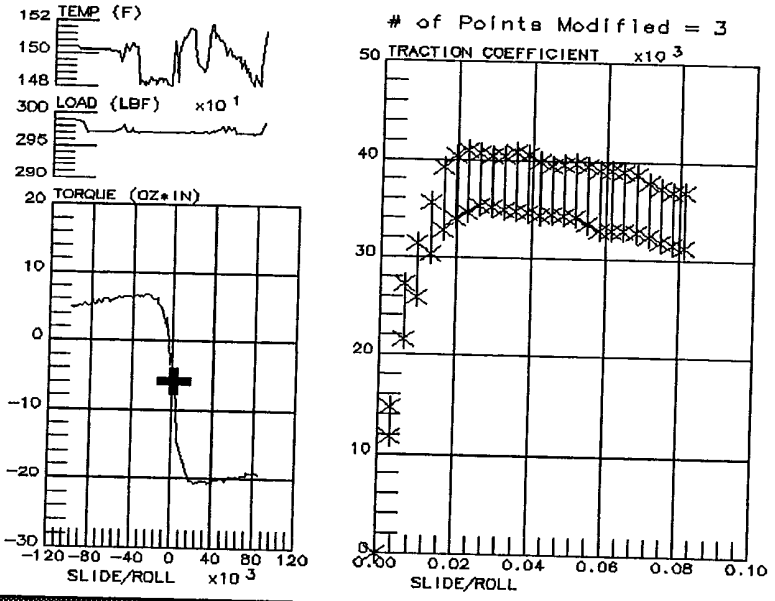
CC 89-180 Vistalube 7 #53
150F 4LBF 10198RPM 14 FILE: vist-03
# of Points Modified = 2



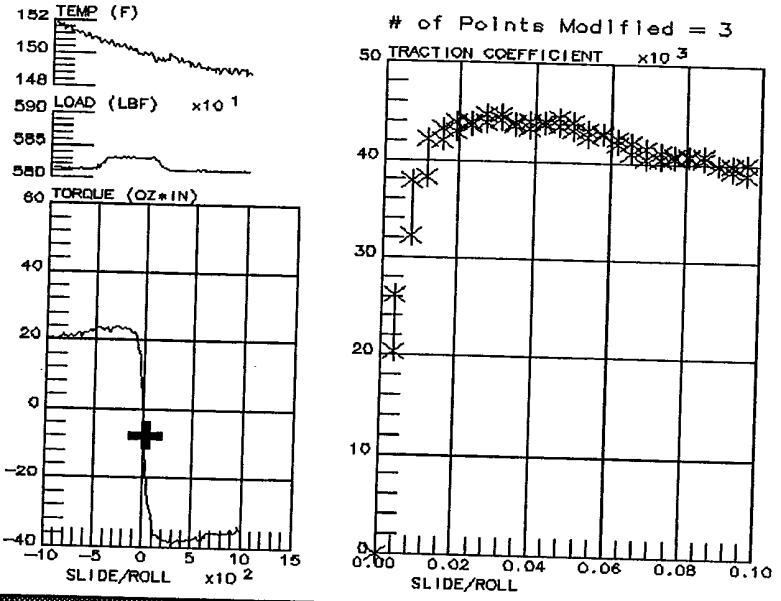
CC 89-180 Vistalube 7 #54
150F 13LBF 10198RPM 15 FILE: vist-03
# of Points Modified = 1



CC 89-180 Vistalube 7 #55
150F 30LBF 10198RPM 16 FILE: vist-03
# of Points Modified = 3



CC 89-180 Vistalube 7 #56
150F 58LBF 10198RPM 1 FILE: vist-03x
# of Points Modified = 3

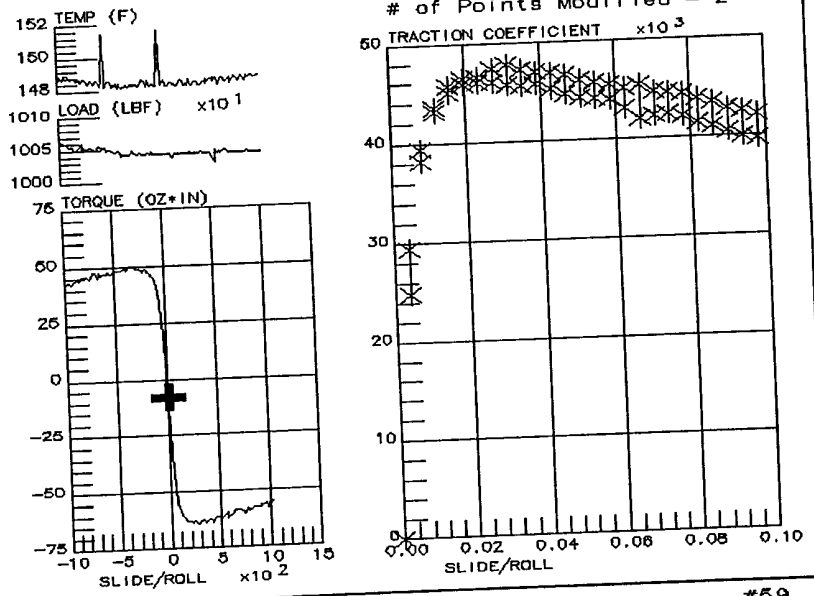


#57

CC 89-180 Vistalube 7
150F 100LBF 10198RPM 2

FILE: vist-03x

# of Points Modified = 2

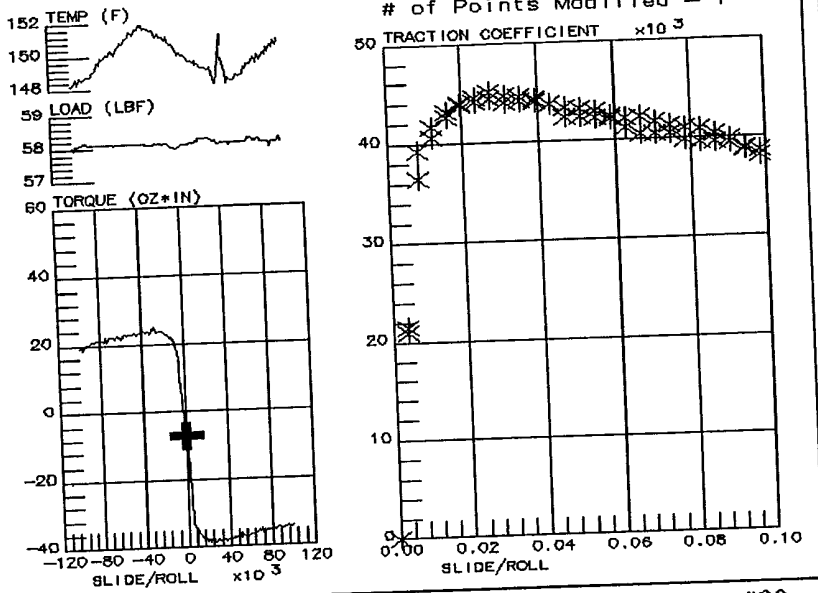


#58

CC 89-180 Vistalube 7
150F 58LBF 10198RPM 1

FILE: vist-03z

# of Points Modified = 1

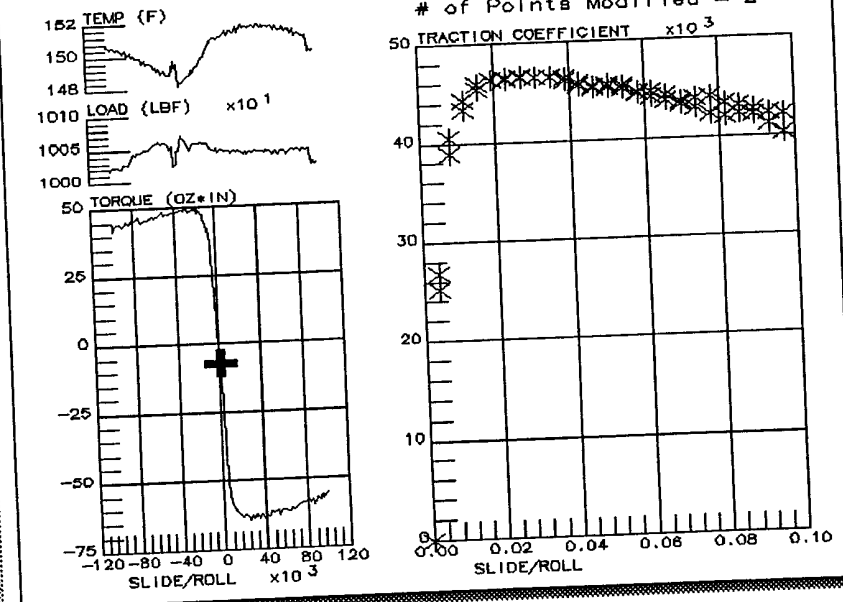


#59

CC 89-180 Vistalube 7
150F 100LBF 10198RPM 2

FILE: vist-03z

# of Points Modified = 2

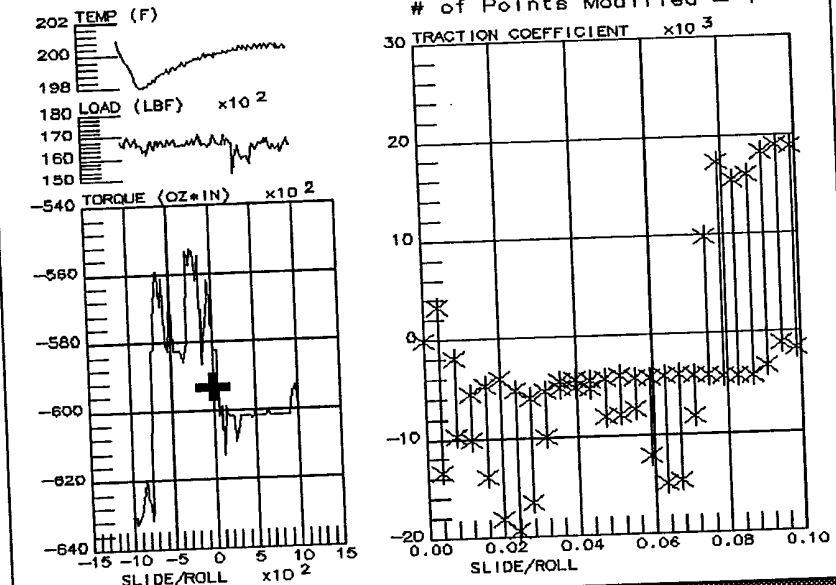


#60

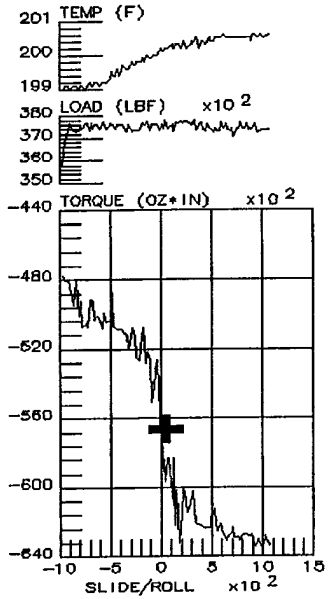
CC 89-180 Vistalube 7
200F 2LBF 5080RPM 1

FILE: vist-04

# of Points Modified = 4



CC 89-180 Vistalube 7 #61
200F 4LBF 5080RPM 2 FILE: vist-04



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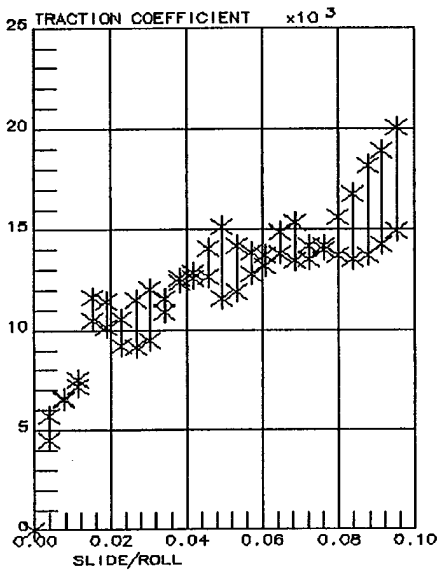
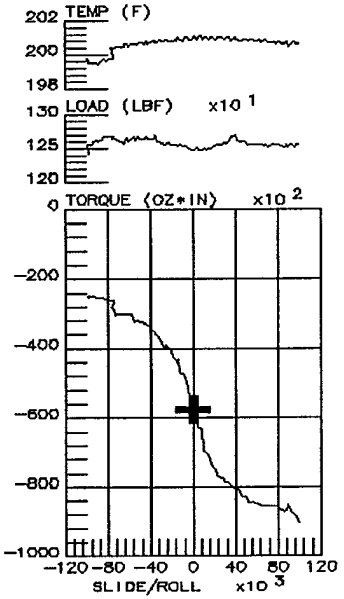


CC 89-180 Vistalube 7 #62
200F 13LBF 5080RPM 3 FILE: vist-04



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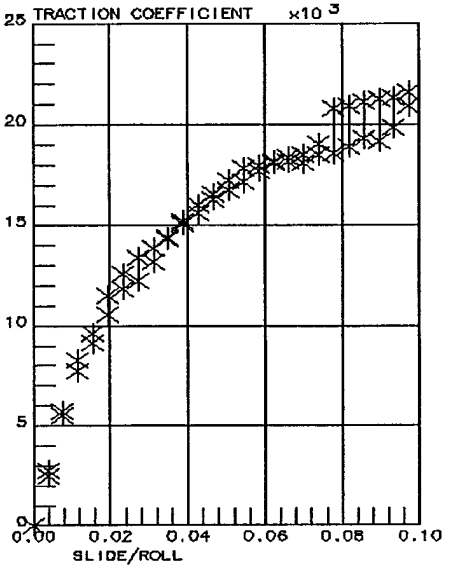
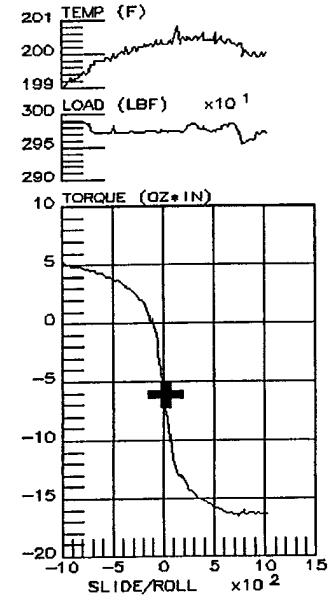


CC 89-180 Vistalube 7 #63
200F 30LBF 5080RPM 4 FILE: vist-04



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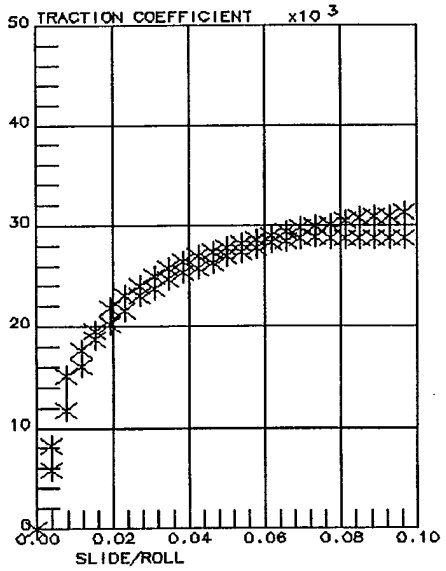
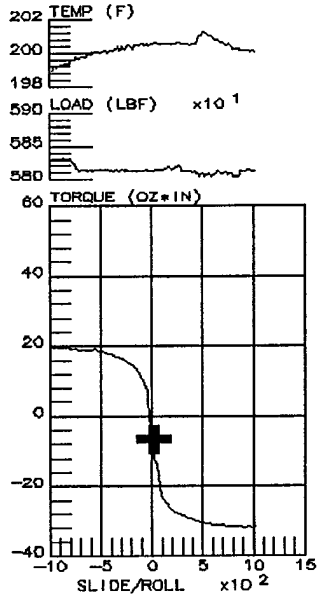


CC 89-180 Vistalube 7 #64
200F 58LBF 5080RPM 5 FILE: vist-04



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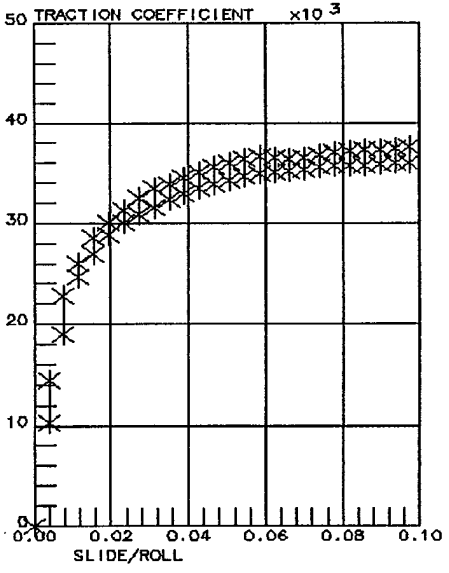
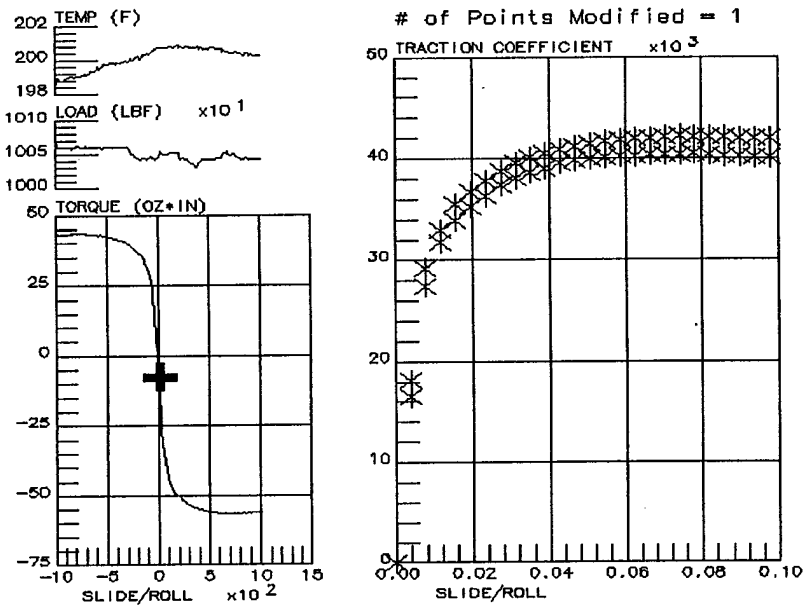
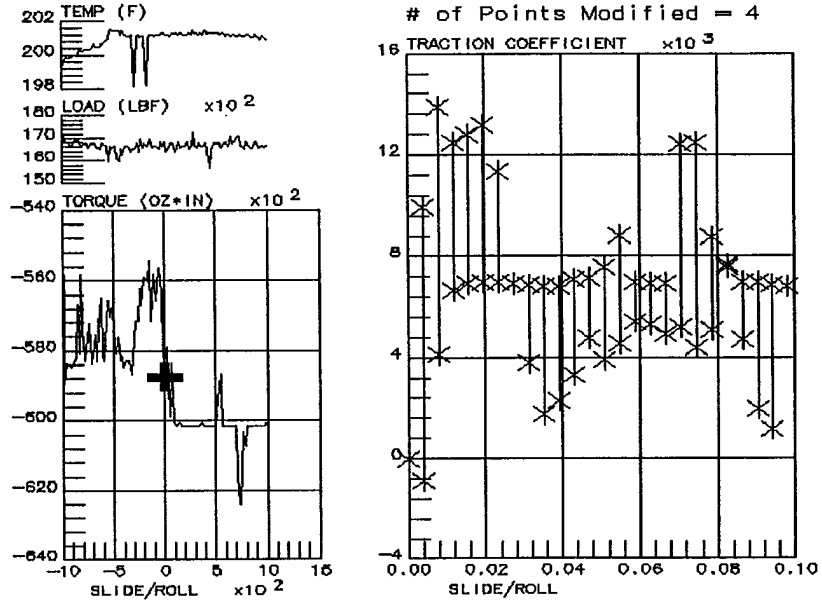


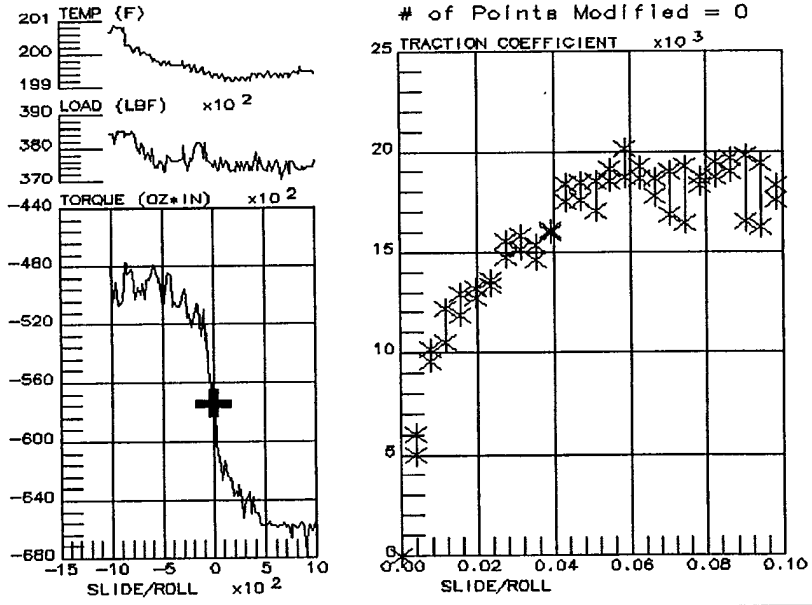
CC 89-180 Vistalube 7 #65
200F 100LBF 5080RPM 6 FILE: vist-04



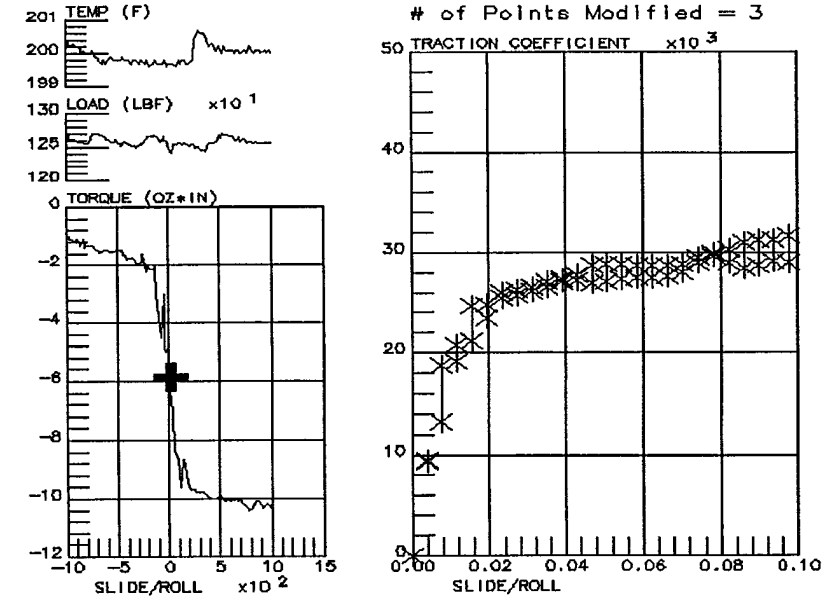
CC 89-180 Vistalube 7 #66
200F 2LBF 7639RPM 7 FILE: vist-04



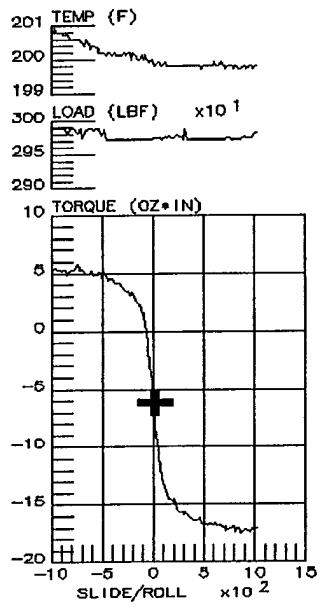
CC 89-180 Vistalube 7 #67
200F 4LBF 7639RPM 8 FILE: vist-04



CC 89-180 Vistalube 7 #68
200F 13LBF 7639RPM 9 FILE: vist-04



CC 89-180 Vistalube 7 #69
200F 30LBF 7639RPM 10 FILE: vist-04



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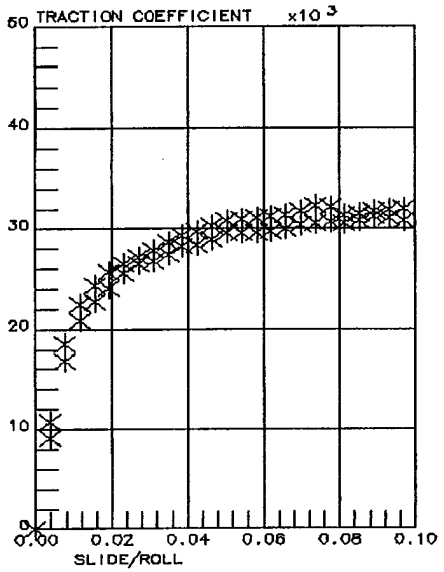
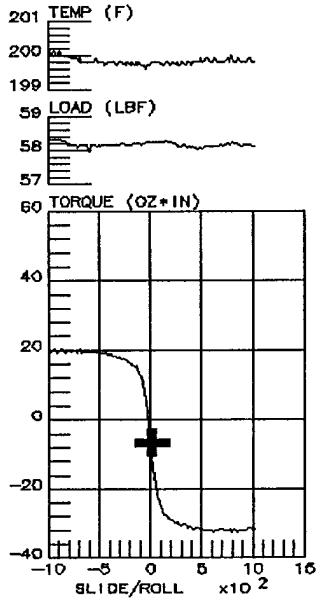


CC 89-180 Vistalube 7 #70
200F 58LBF 7639RPM 11 FILE: vist-04



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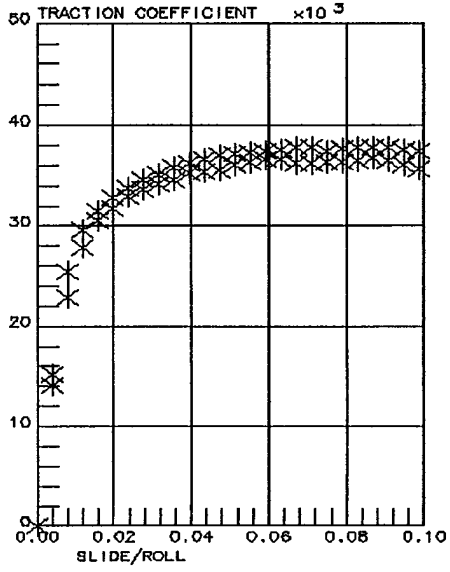
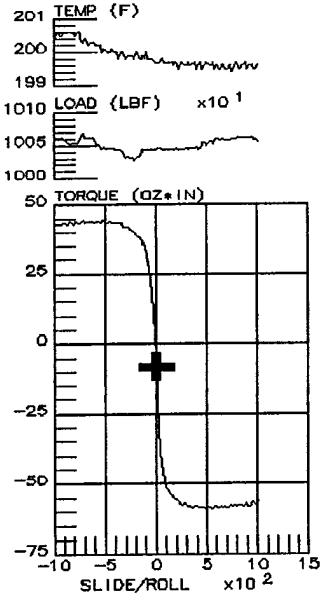


CC 89-180 Vistalube 7 #71
200F 100LBF 7639RPM 12 FILE: vist-04



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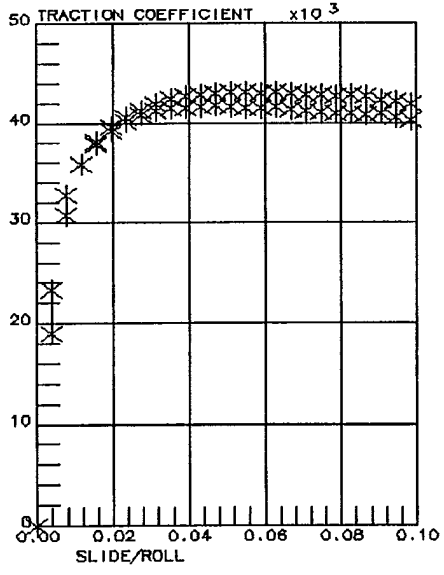
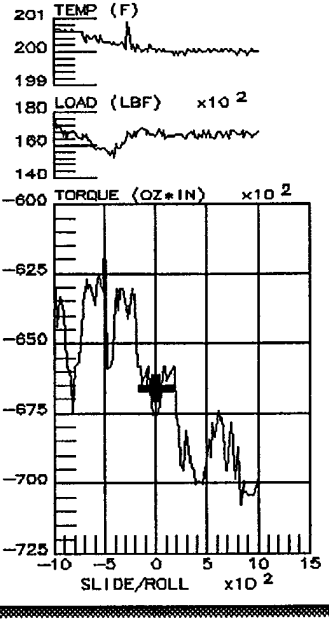


CC 89-180 Vistalube 7 #72
200F 2LBF 10198RPM 13 FILE: vist-04



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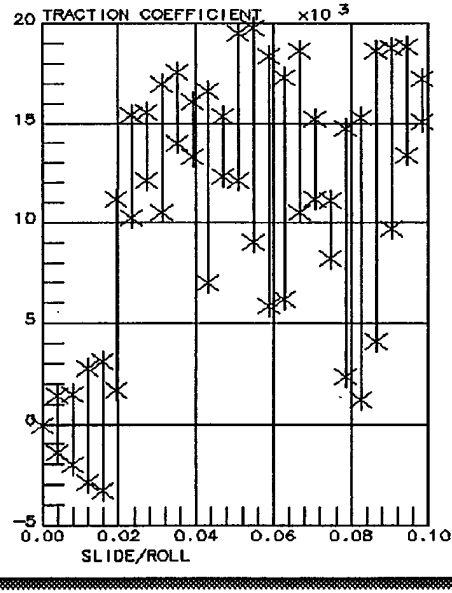
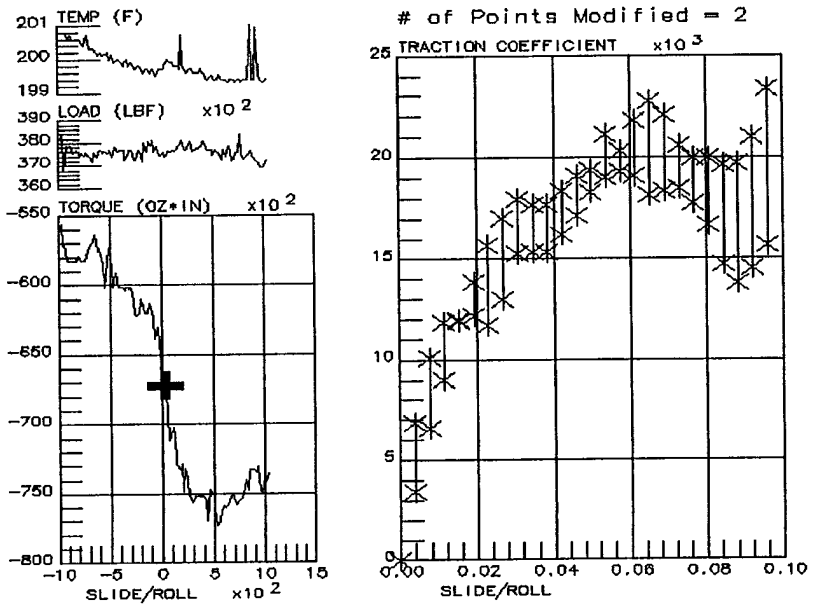


CC 89-180 Vistalube 7 #73
200F 4LBF 10198RPM 14 FILE: vist-04



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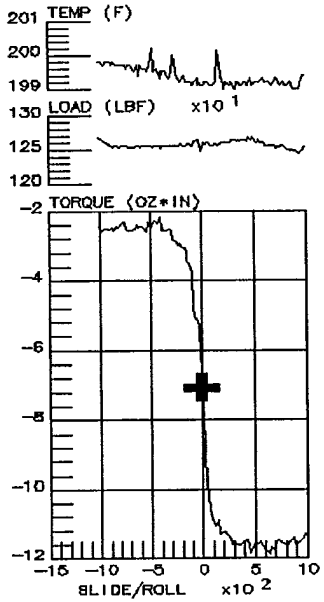
CC 89-180 Vistalube 7 #74
200F 13LBF 10198RPM 15 FILE: vist-04



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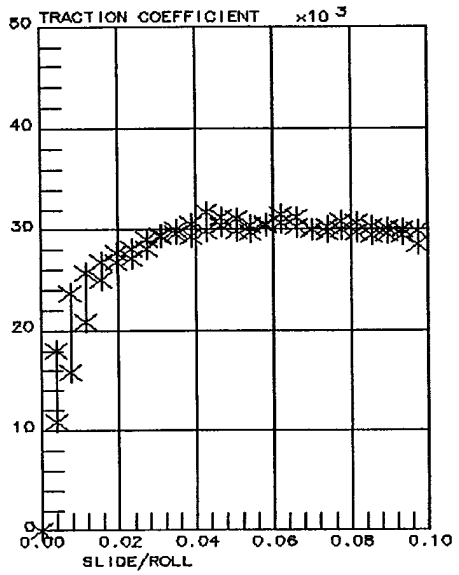
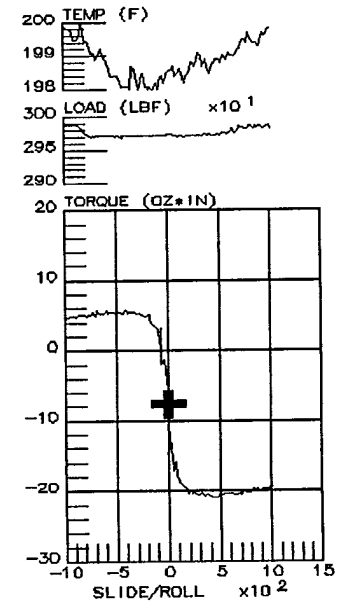


CC 89-180 Vistalube 7 #75
200F 30LBF 10198RPM 16 FILE: vist-04



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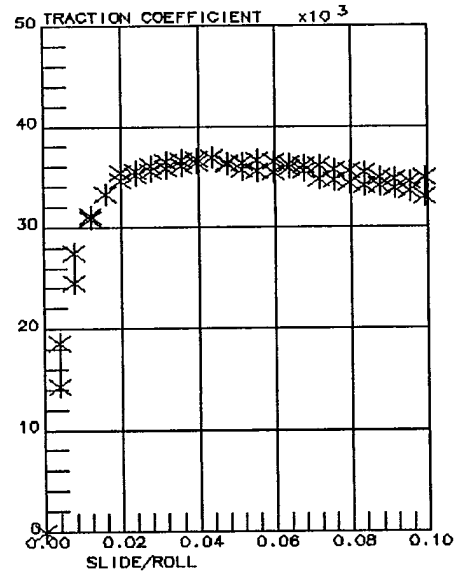
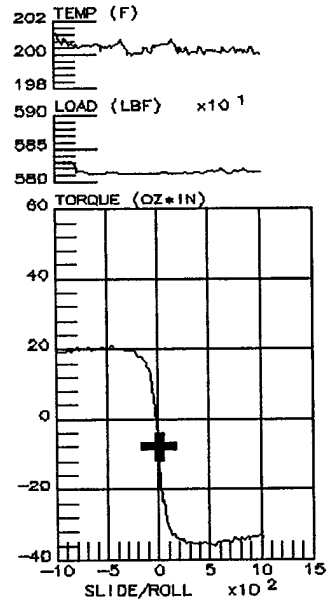


CC 89-180 Vistalube 7 #76
200F 58LBF 10198RPM 17 FILE: vist-04



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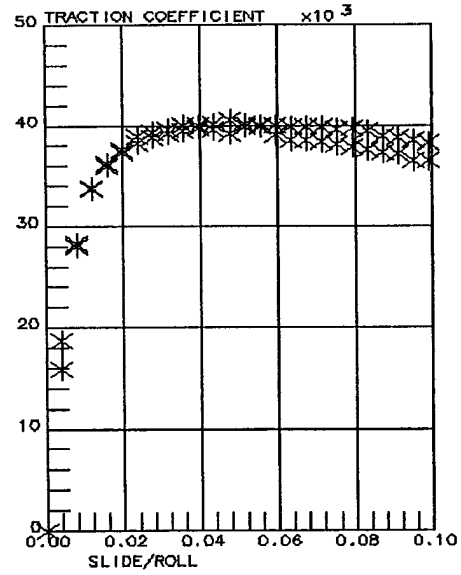
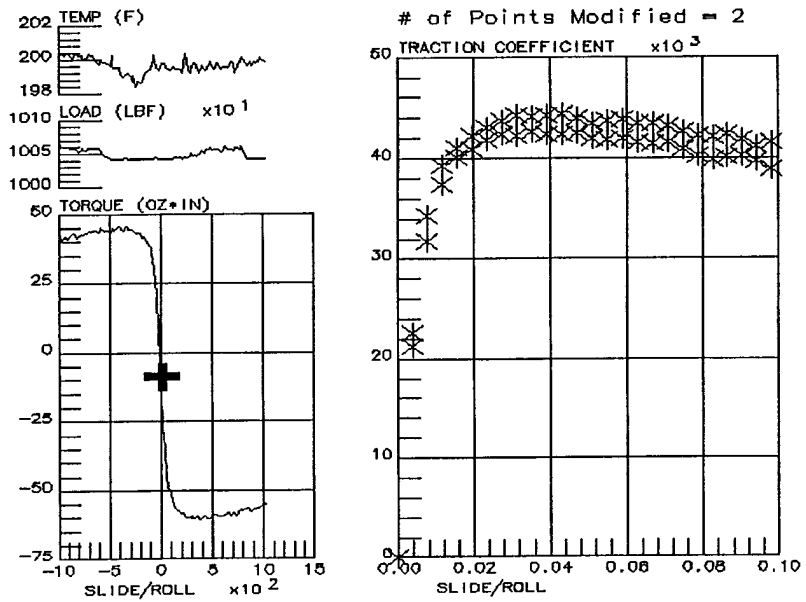
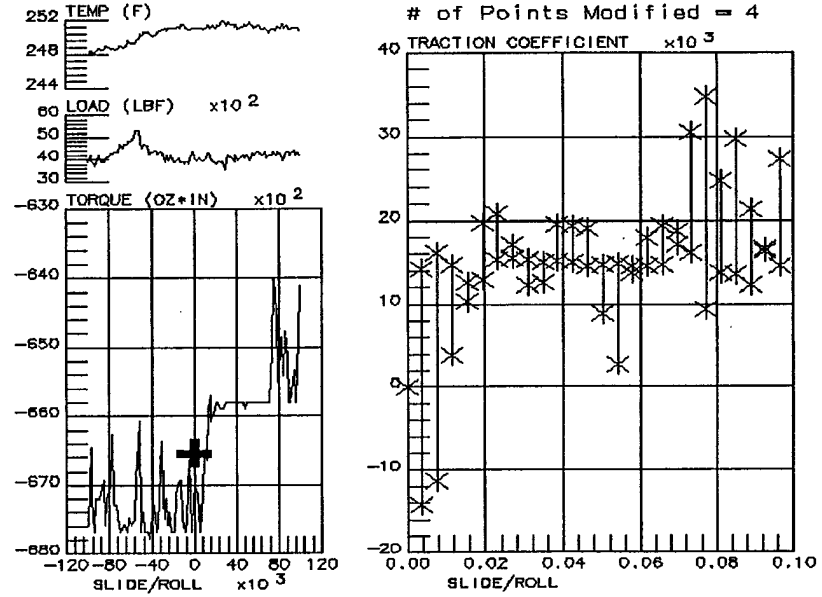


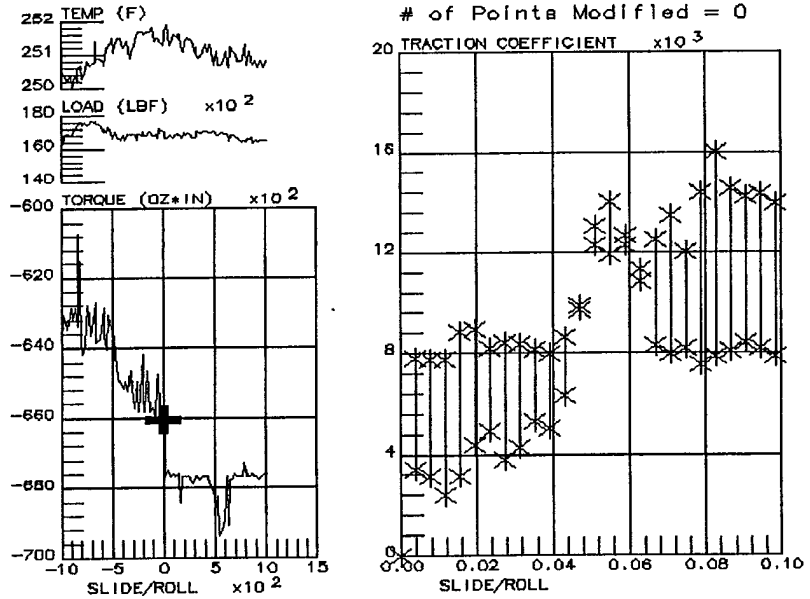
CC 89-180 Vistalube 7 #77
200F 100LBF 10198RPM 18 FILE: vist-04



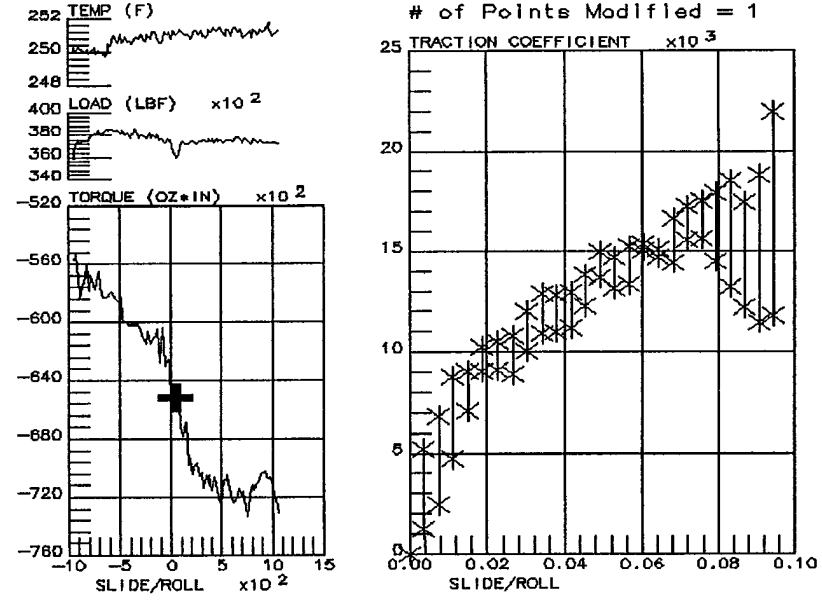
CC 89-180 Vistalube 7 #78
250F 0LBF 5080RPM 1 FILE: vist-05



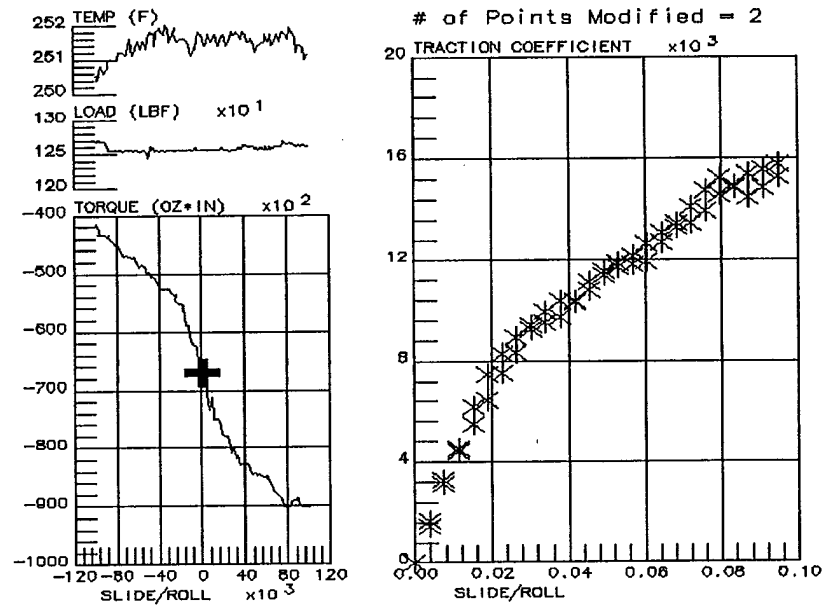
CC 89-180 Vistalube 7 #79
250F 2LBF 5080RPM 2 FILE: vist-05



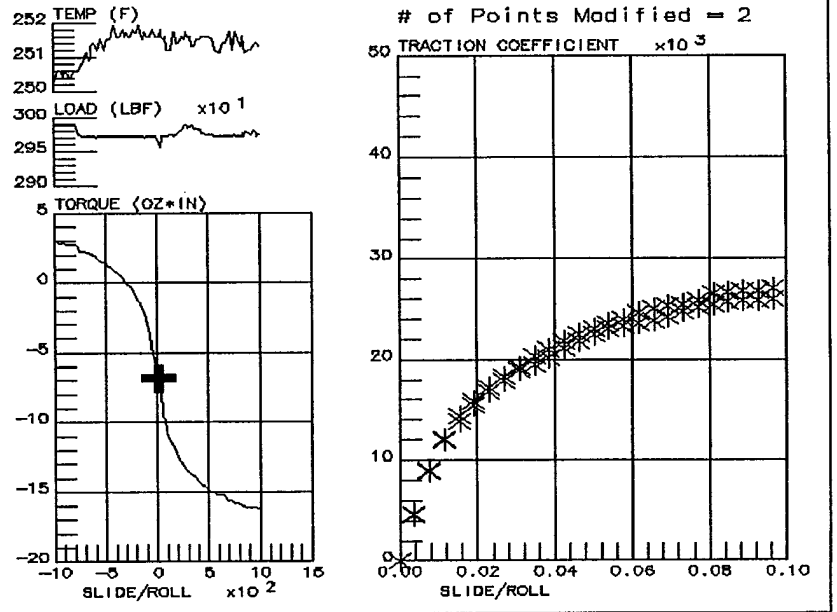
CC 89-180 Vistalube 7 #80
250F 4LBF 5080RPM 3 FILE: vist-05



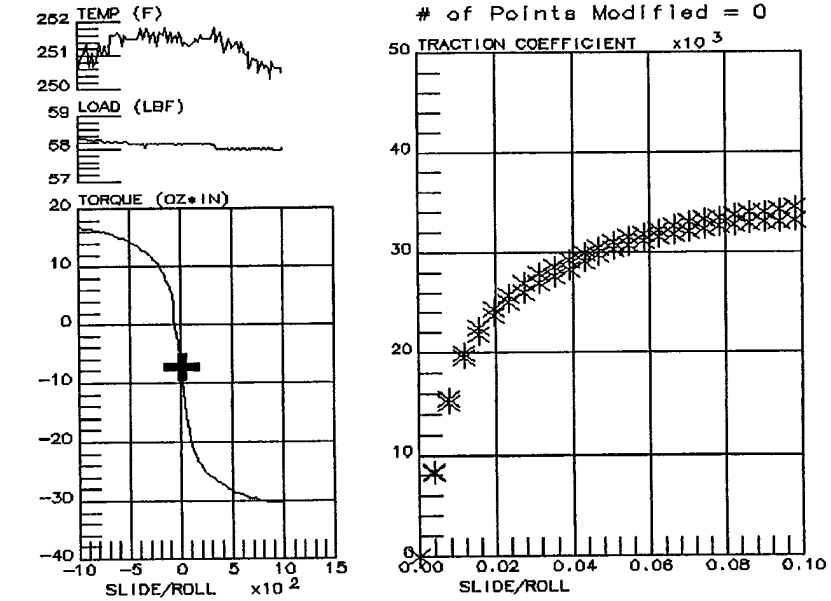
CC 89-180 Vistalube 7 #81
250F 13LBF 5080RPM 4 FILE: vist-05



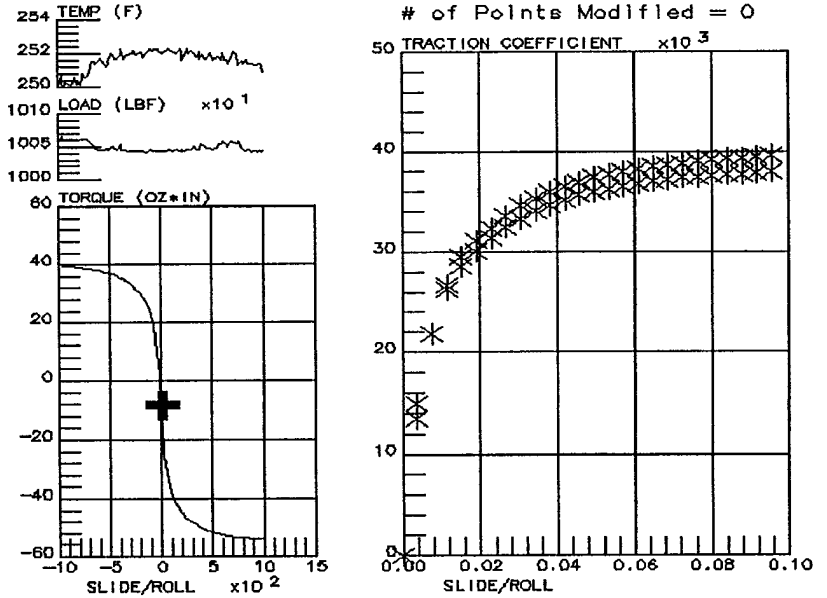
CC 89-180 Vistalube 7 #82
250F 30LBF 5080RPM 5 FILE: vist-05



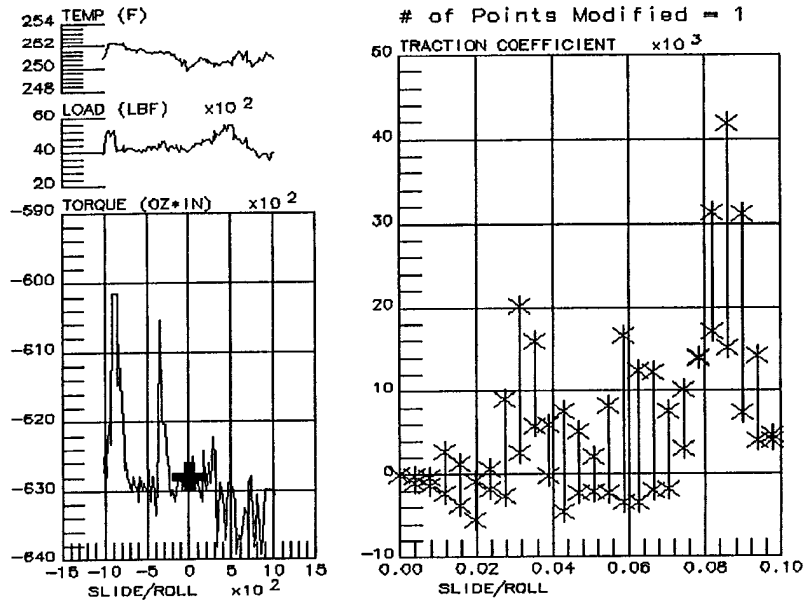
CC 89-180 Vistalube 7 #83
250F 58LBF 5080RPM 6 FILE: vist-05



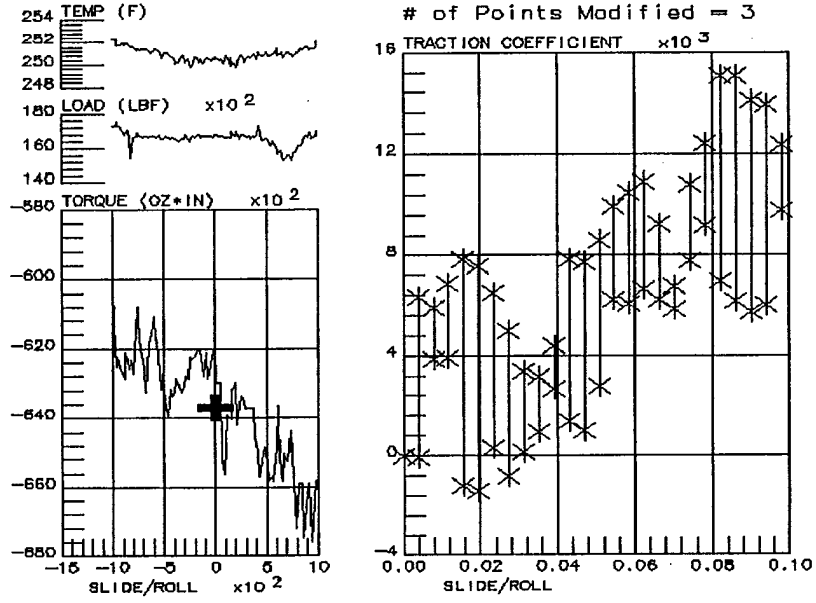
CC 89-180 Vistalube 7 #84
250F 100LBF 5080RPM 7 FILE: vist-05



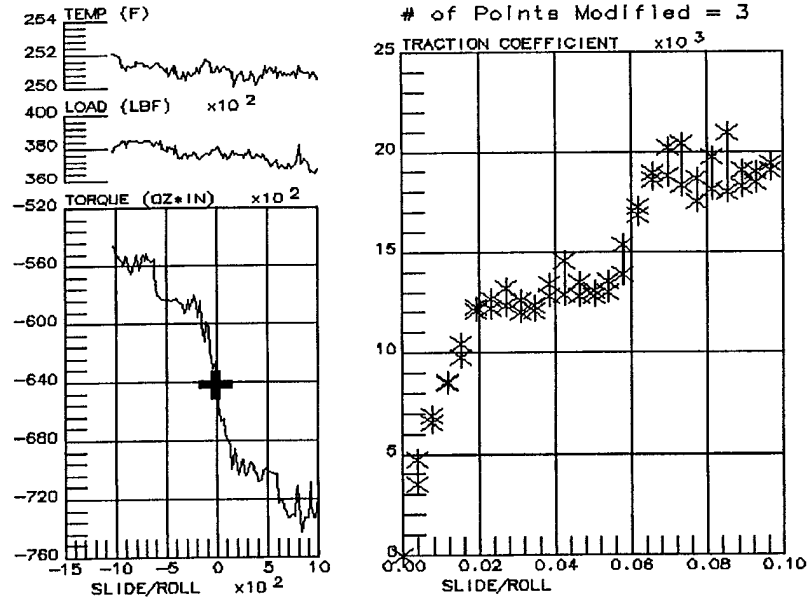
CC 89-180 Vistalube 7 #85
250F 0LBF 7639RPM 8 FILE: vist-05



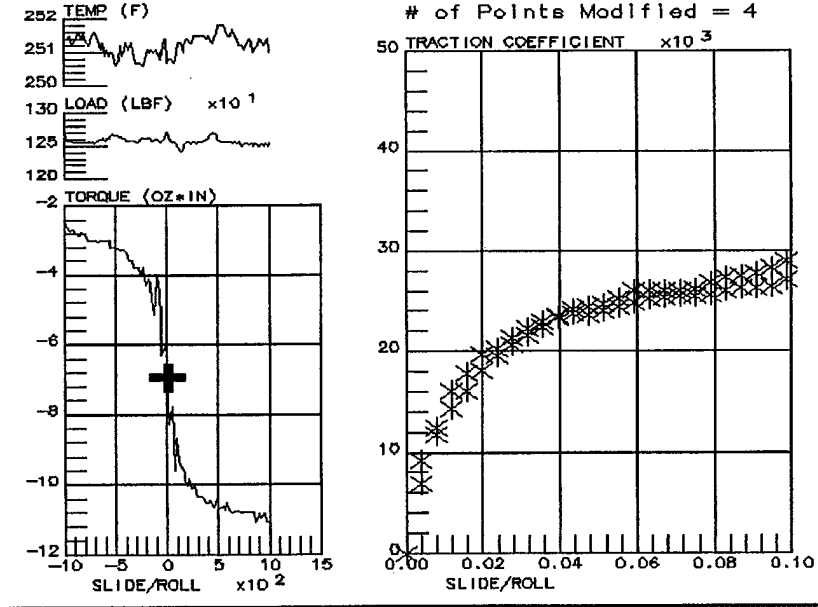
CC 89-180 Vistalube 7 #86
250F 2LBF 7639RPM 9 FILE: vist-05



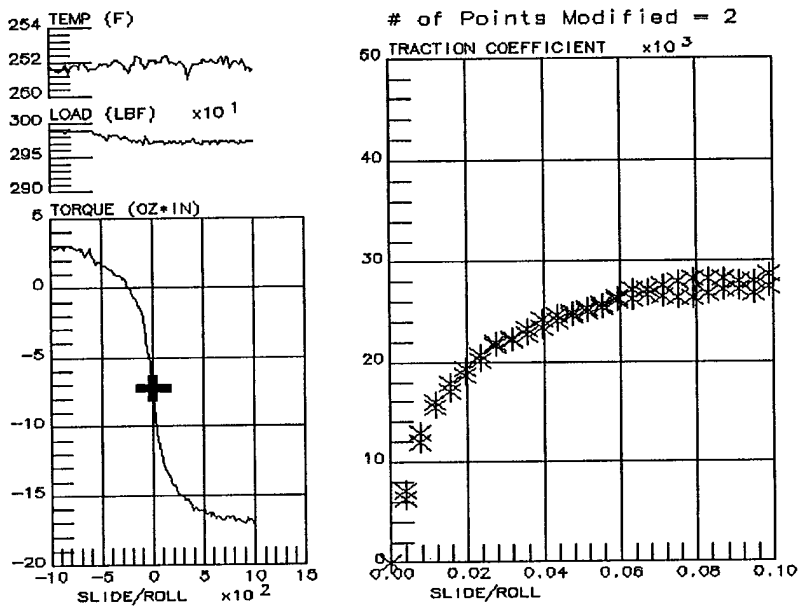
CC 89-180 Vistalube 7 #87
250F 4LBF 7639RPM 10 FILE: vist-05



CC 89-180 Vistalube 7 #88
250F 13LBF 7639RPM 11 FILE: vist-05



CC 89-180 Vistalube 7 #89
250F 30LBF 7639RPM 12 FILE: vist-05



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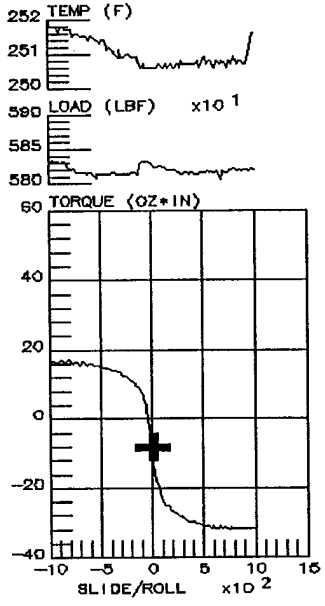
CC 89-180 Vistalube 7 #90
250F 58LBF 7639RPM 13 FILE: vist-05



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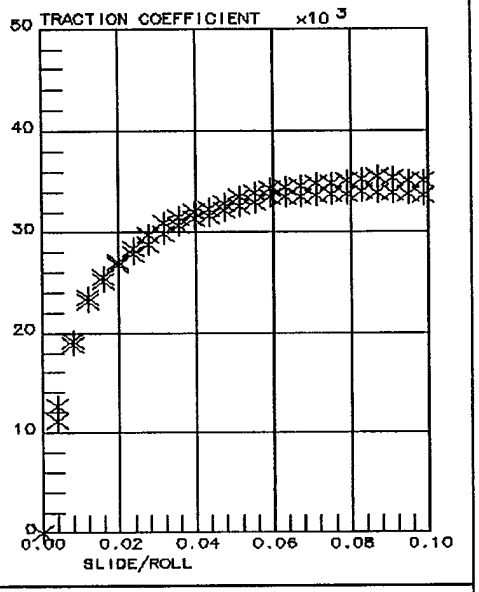
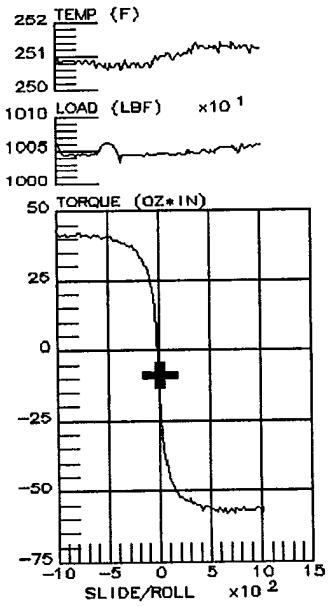


CC 89-180 Vistalube 7 #91
250F 100LBF 7639RPM 14 FILE: vist-05



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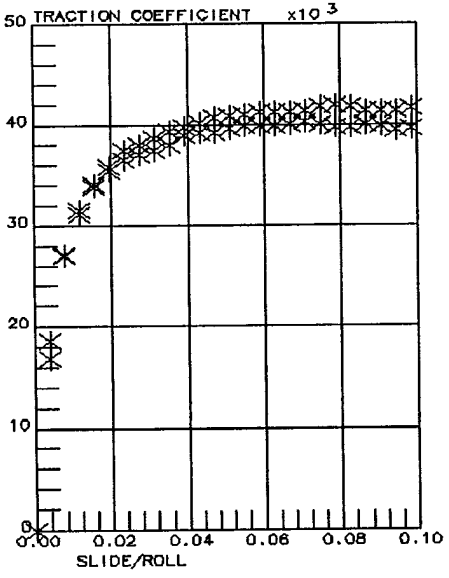
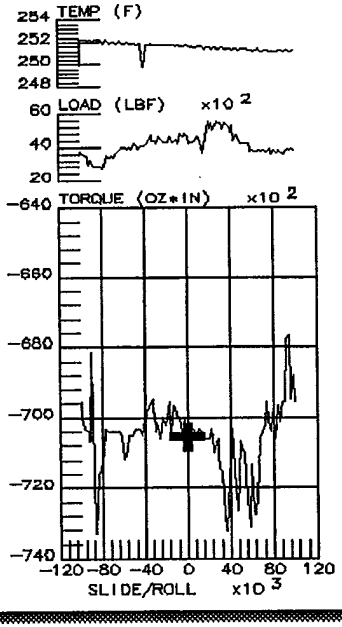


CC 89-180 Vistalube 7 #92
250F 0LBF 10198RPM 15 FILE: vist-05



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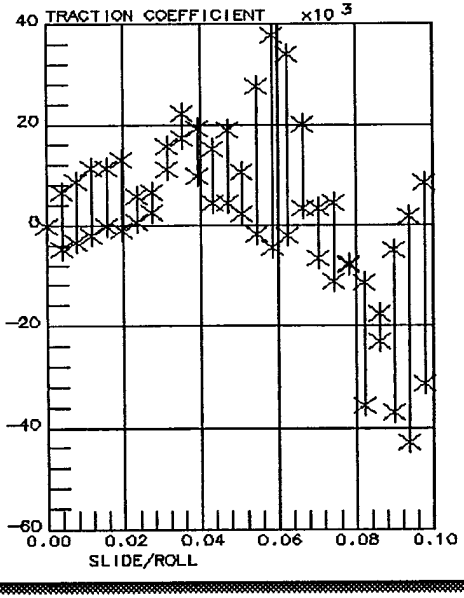
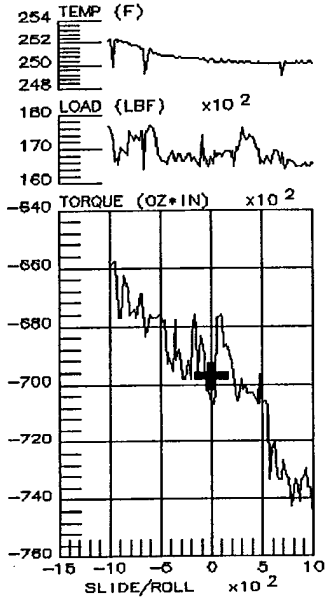


CC 89-180 Vistalube 7 #93
250F 2LBF 10198RPM 16 FILE: vist-05



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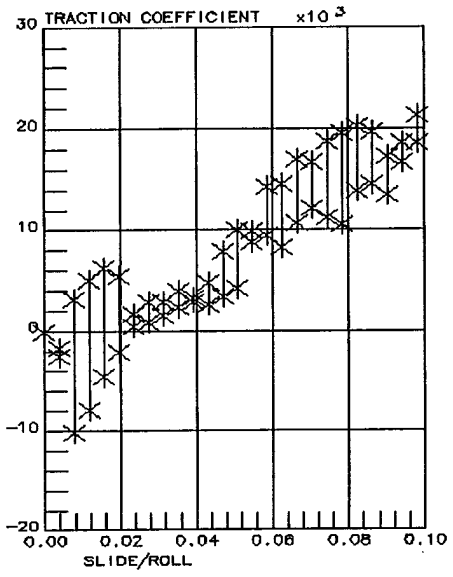
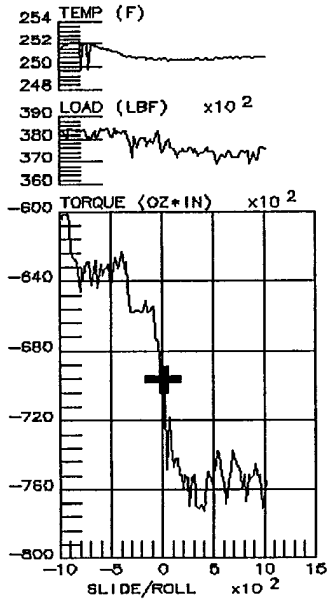


CC 89-180 Vistalube 7 #94
250F 4LBF 10198RPM 17 FILE: vist-05



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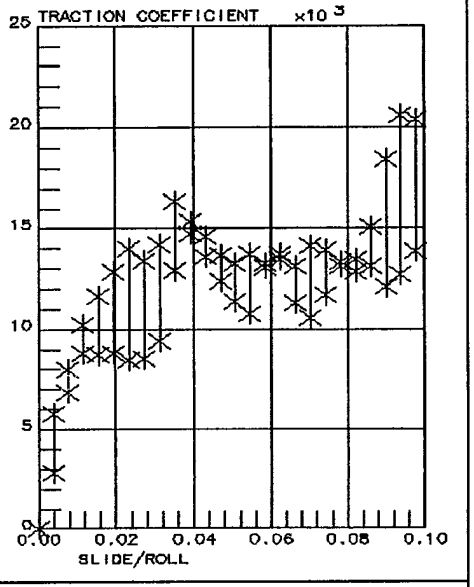
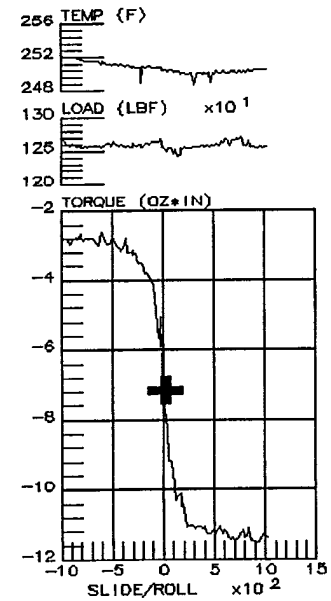


CC 89-180 Vistalube 7 #95
250F 13LBF 10198RPM 18 FILE: vist-05



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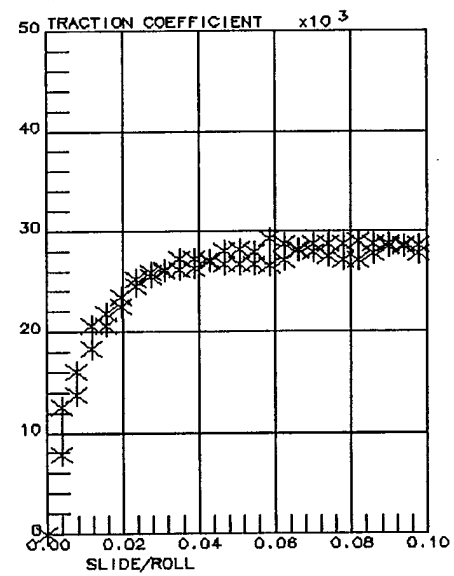
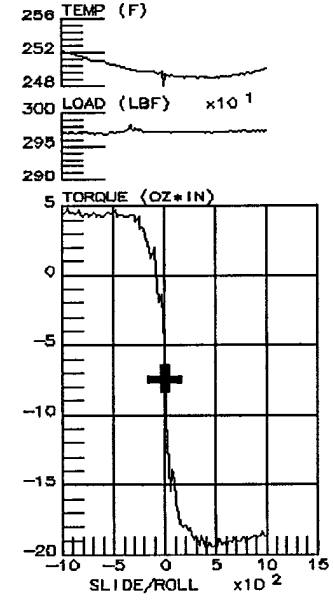
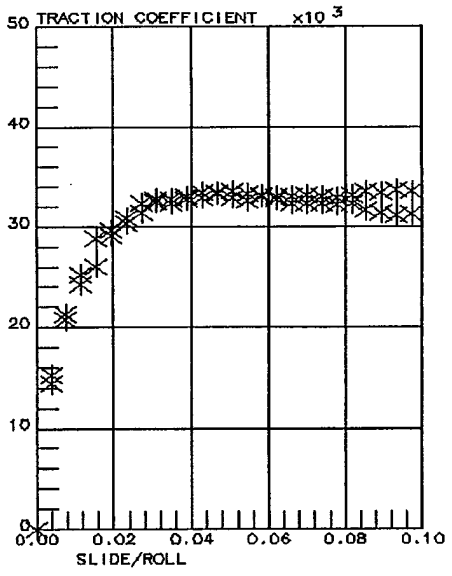


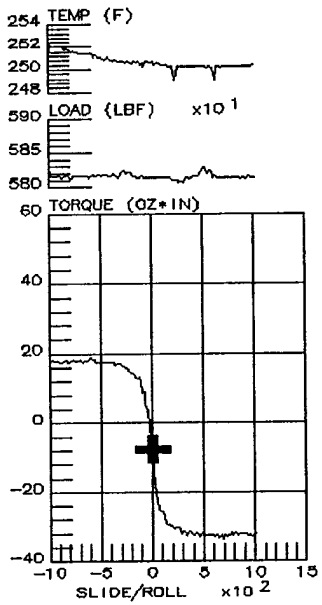
CC 89-180 Vistalube 7 #96
250F 30LBF 10198RPM 19 FILE: vist-05

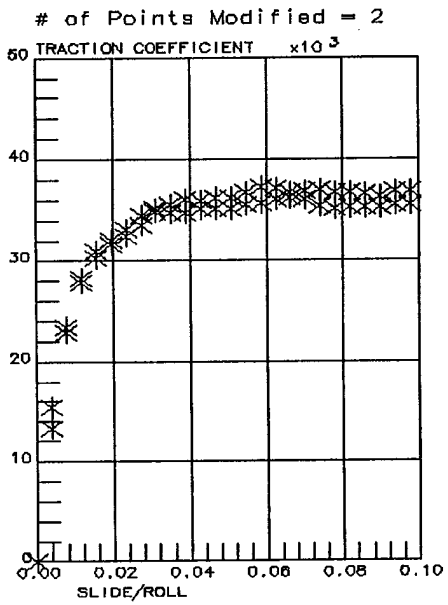


# of Points Modified = 2

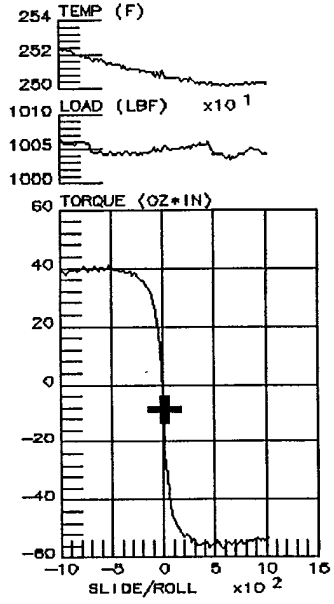


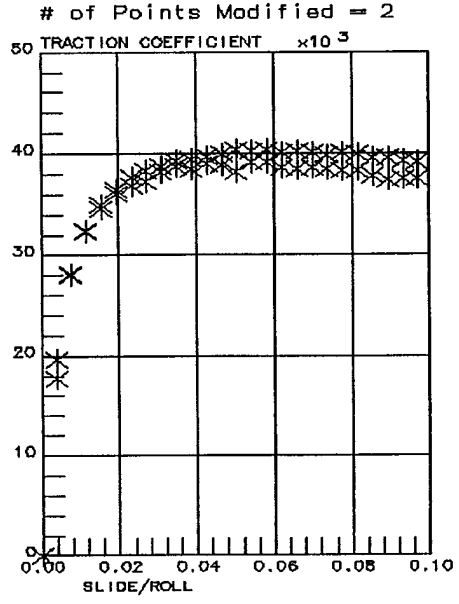
CC 89-180 Vistalube 7 #97
250F 58LBF 10198RPM 20 FILE: vist-05



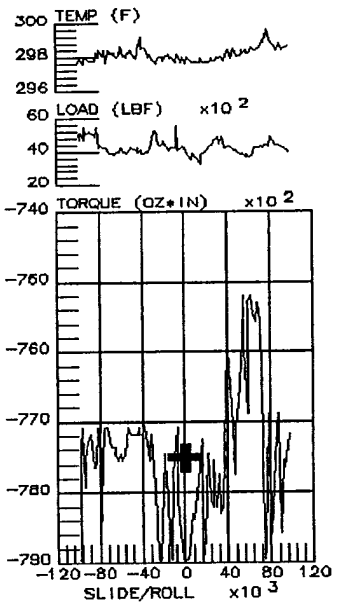


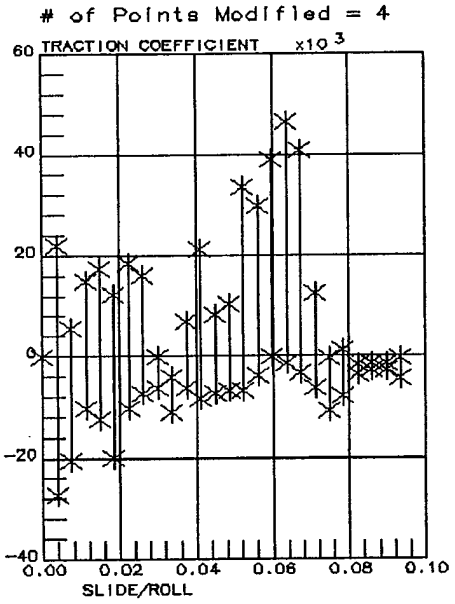
CC 89-180 Vistalube 7 #98
250F 100LBF 10198RPM 21 FILE: vist-05



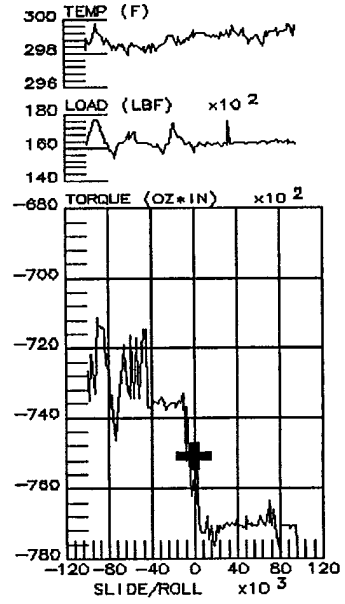


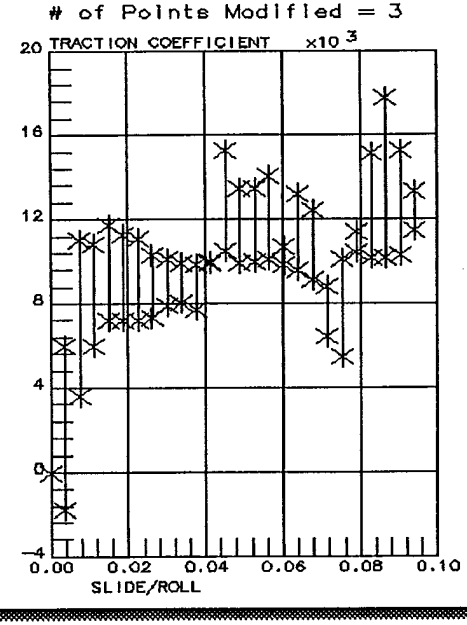
CC 89-180 Vistalube 7 #99
300F 0LBF 5080RPM 1 FILE: vist-06



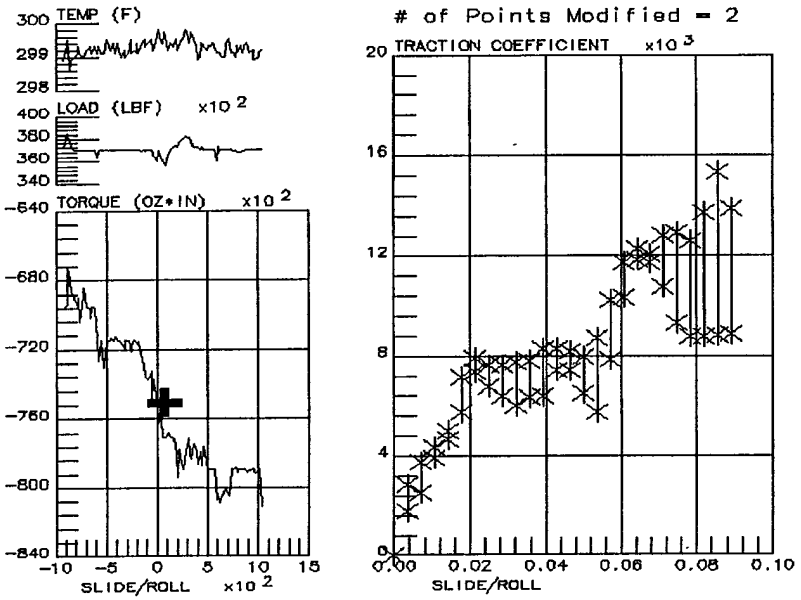


CC 89-180 Vistalube 7 #100
300F 2LBF 5080RPM 2 FILE: vist-06

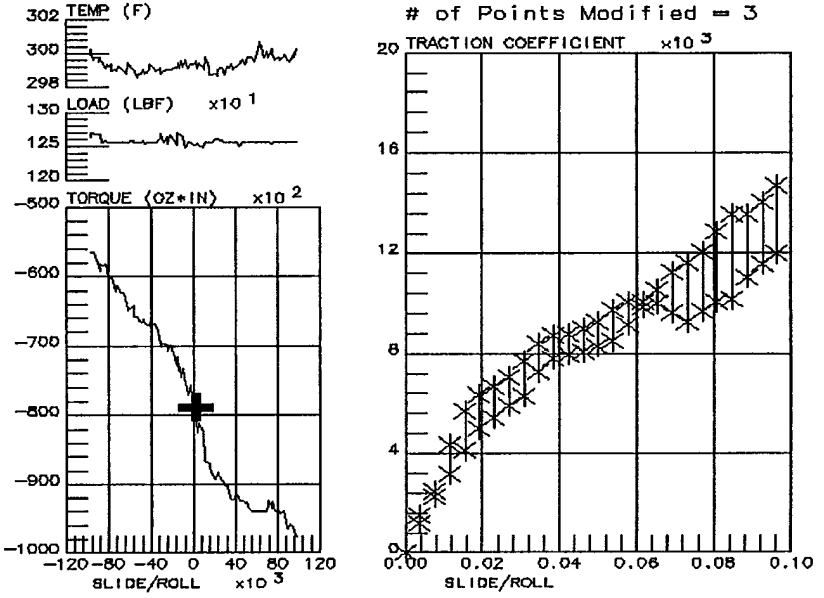




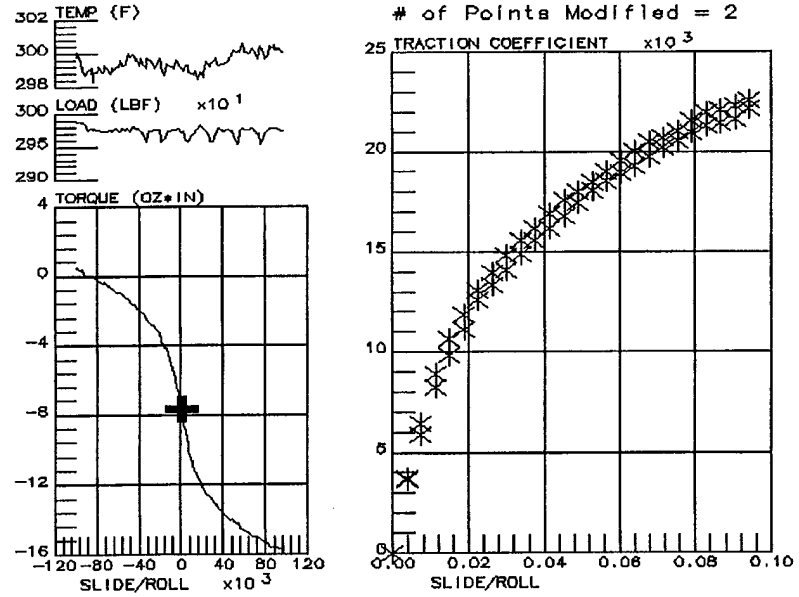
CC 89-180 Vistalube 7 #101
300F 4LBF 5080RPM 3 FILE: vist-06



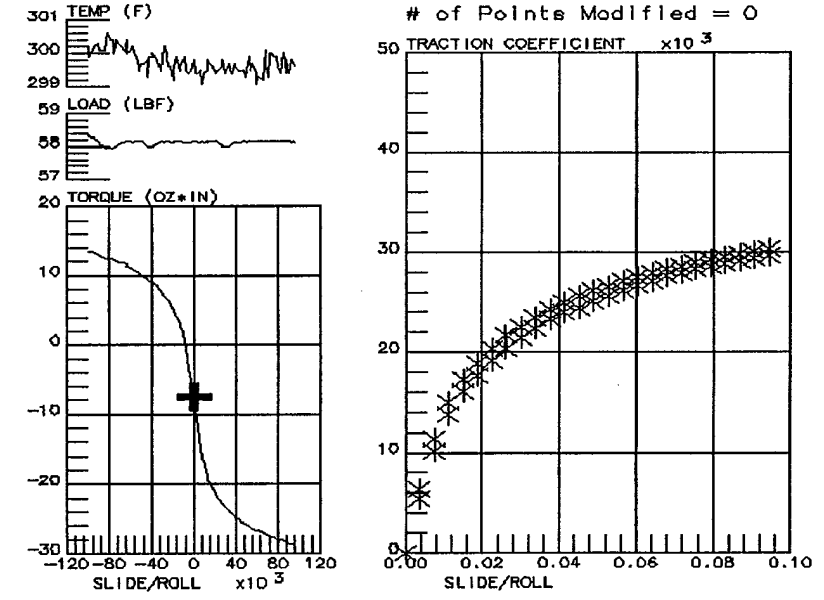
CC 89-180 Vistalube 7 #102
300F 13LBF 5080RPM 4 FILE: vist-06



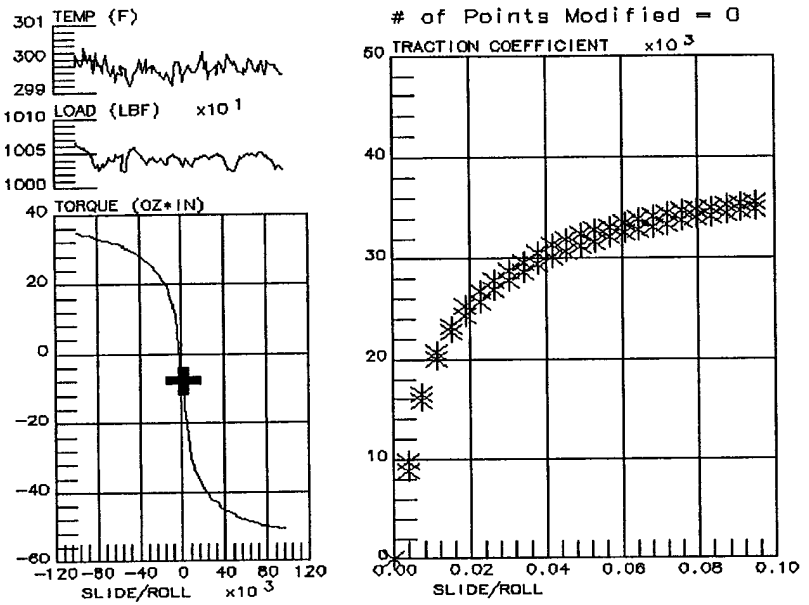
CC 89-180 Vistalube 7 #103
300F 30LBF 5080RPM 5 FILE: vist-06



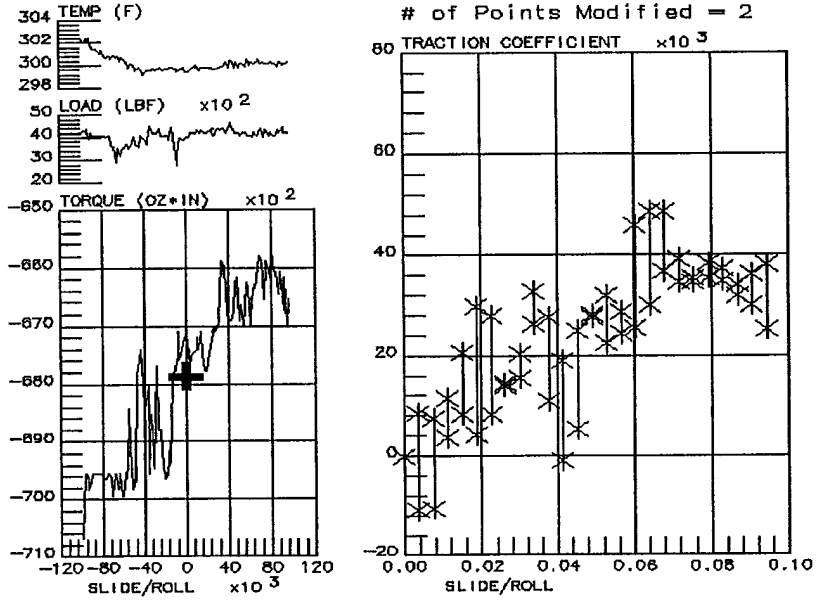
CC 89-180 Vistalube 7 #104
300F 58LBF 5080RPM 6 FILE: vist-06



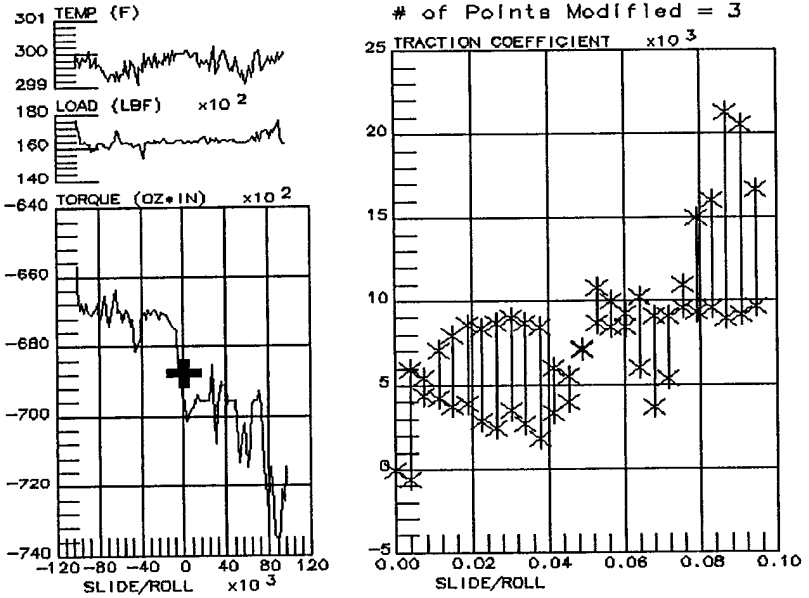
CC 89-180 Vistalube 7 #105
300F 100LBF 5080RPM 7 FILE: vist-06



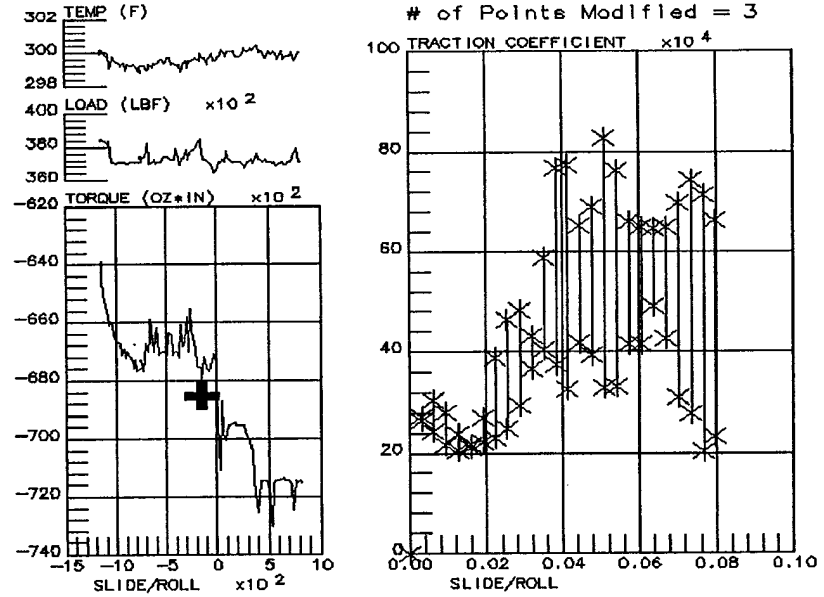
CC 89-180 Vistalube 7 #106
300F 0LBF 7639RPM 8 FILE: vist-06



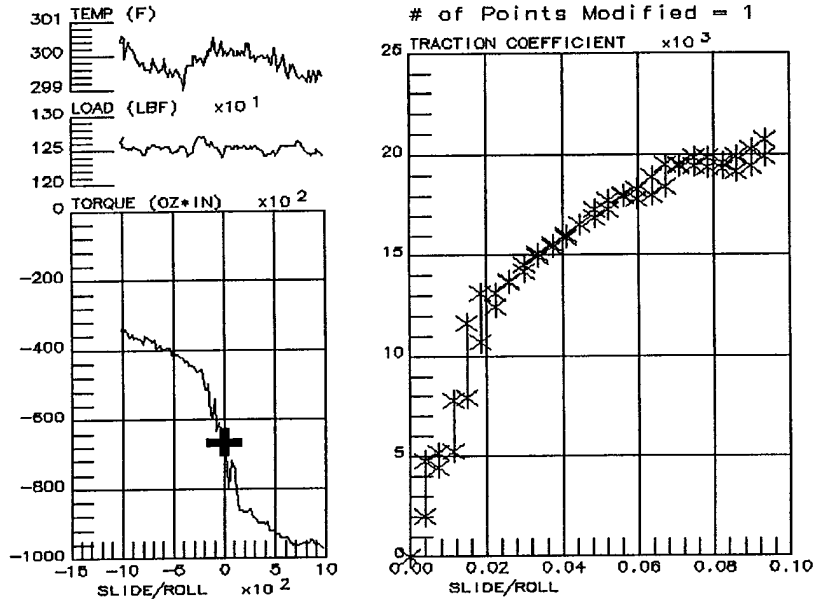
CC 89-180 Vistalube 7 #107
300F 2LBF 7639RPM 9 FILE: vist-06



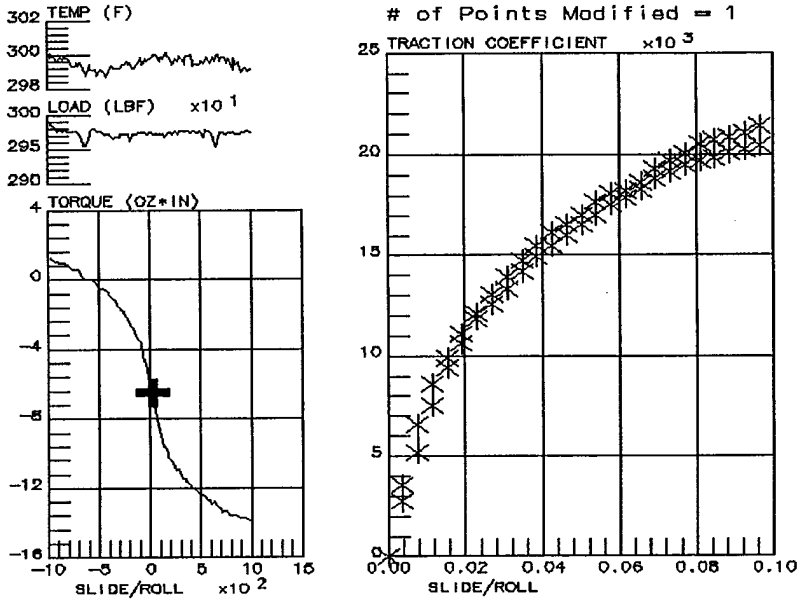
CC 89-180 Vistalube 7 #108
300F 4LBF 7639RPM 10 FILE: vist-06



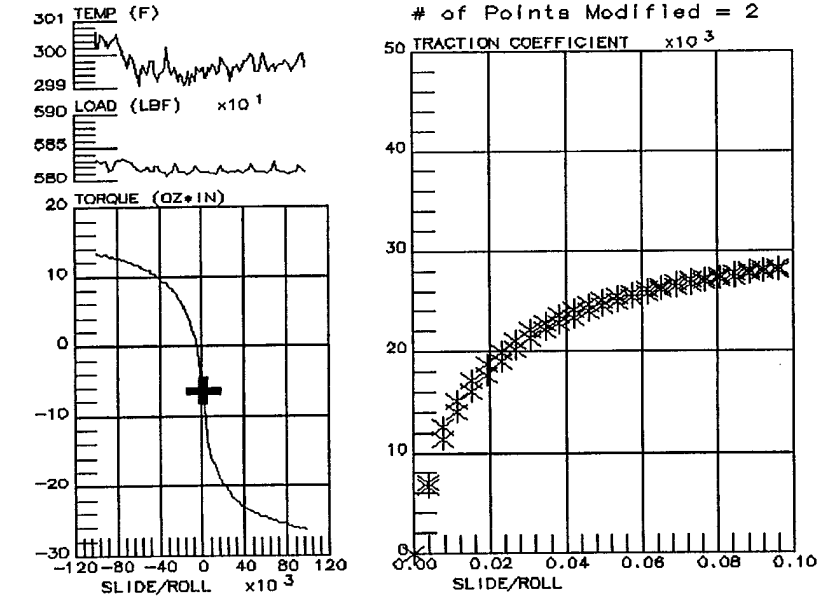
CC 89-180 Vistalube 7 #109
300F 13LBF 7639RPM 11 FILE: vist-06



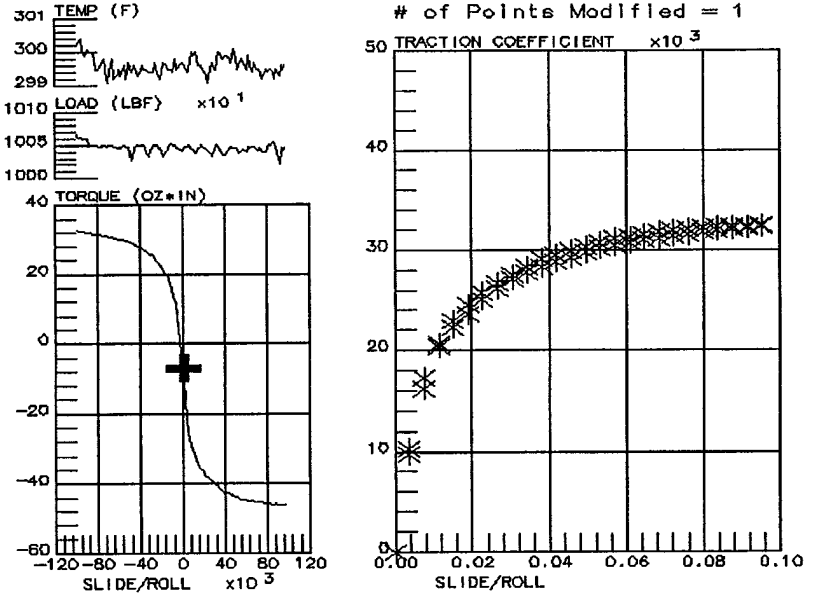
CC 89-180 Vistalube 7 #110
300F 30LBF 7639RPM 12 FILE: vist-06

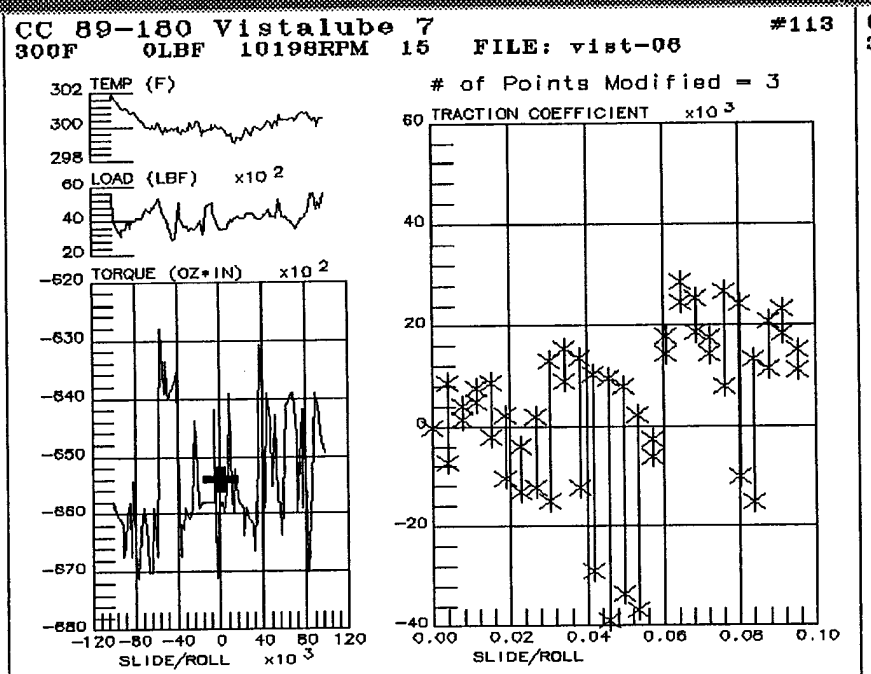


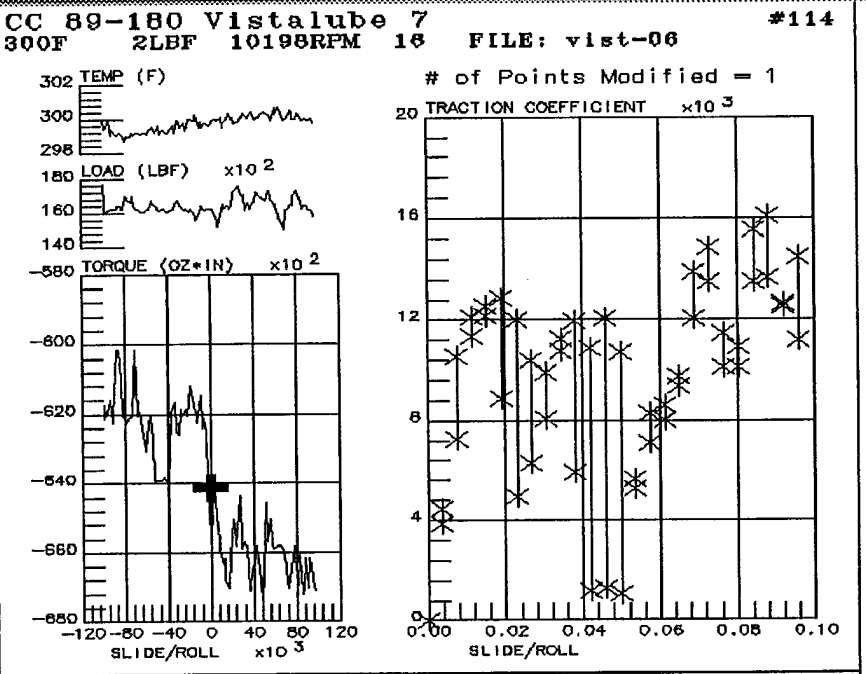
CC 89-180 Vistalube 7 #111
300F 58LBF 7639RPM 13 FILE: vist-06

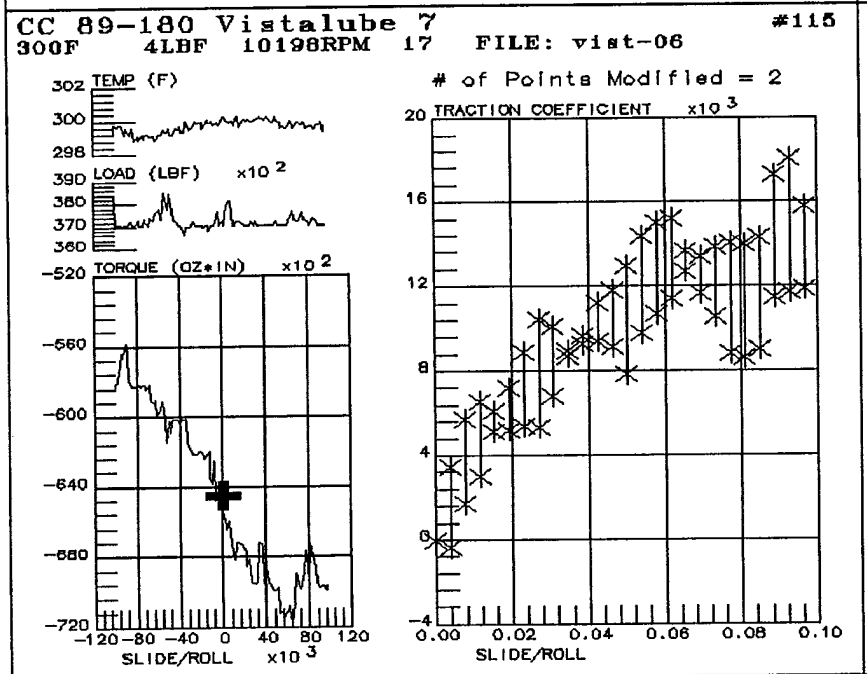


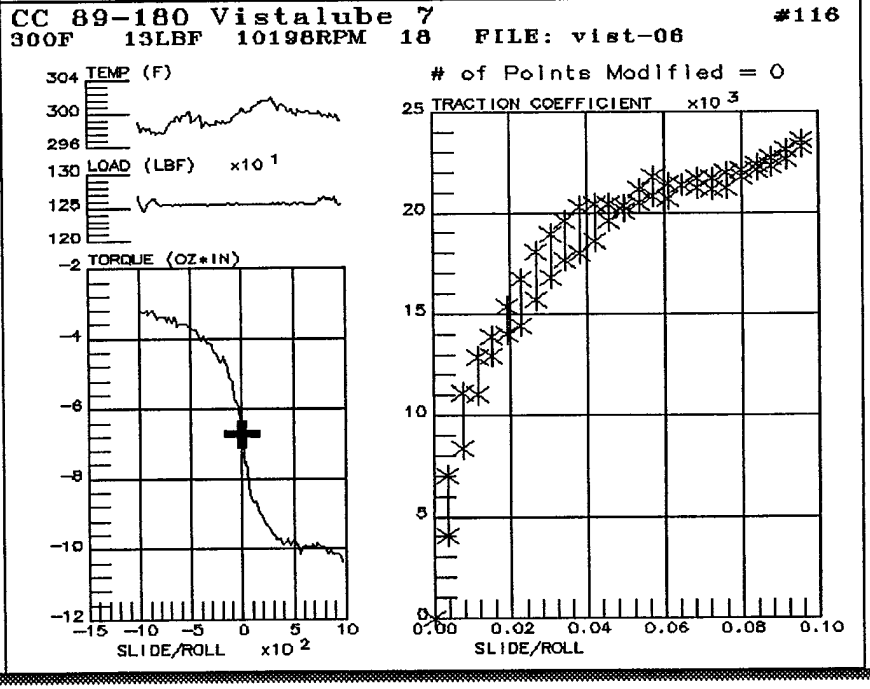
CC 89-180 Vistalube 7 #112
300F 100LBF 7639RPM 14 FILE: vist-06



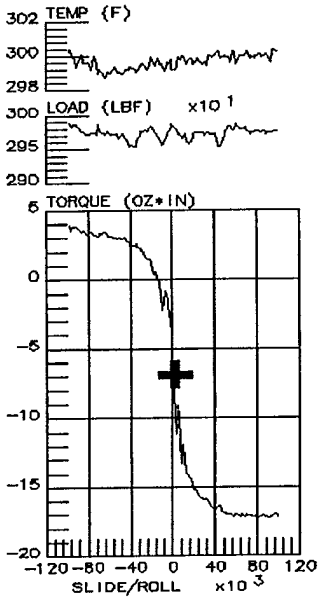

CC 89-180 Vistalube 7
300F 0LBF 10198RPM 15 FILE: vist-06
#113
# of Points Modified = 3
TEMP (F)
LOAD (LBF) x10 2
TORQUE (OZ*IN) x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL x10 3
SLIDE/ROLL


CC 89-180 Vistalube 7
300F 2LBF 10198RPM 16 FILE: vist-06
#114
# of Points Modified = 1
TEMP (F)
LOAD (LBF) x10 2
TORQUE (OZ*IN) x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL x10 3
SLIDE/ROLL

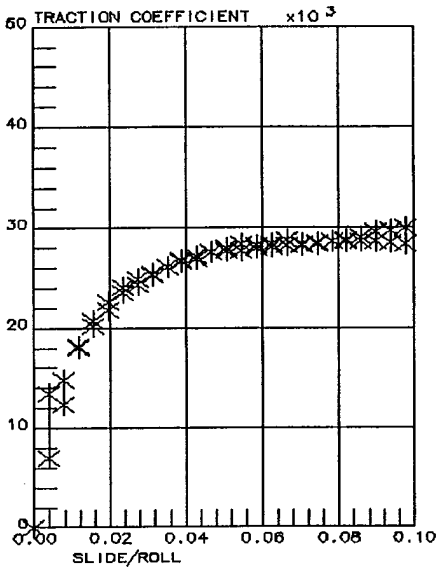

CC 89-180 Vistalube 7
300F 4LBF 10198RPM 17 FILE: vist-06
#115
# of Points Modified = 2
TEMP (F)
LOAD (LBF) x10 2
TORQUE (OZ*IN) x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL x10 3
SLIDE/ROLL


CC 89-180 Vistalube 7
300F 13LBF 10198RPM 18 FILE: vist-06
#116
# of Points Modified = 0
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN)
TRACTION COEFFICIENT x10 3
SLIDE/ROLL x10 2
SLIDE/ROLL

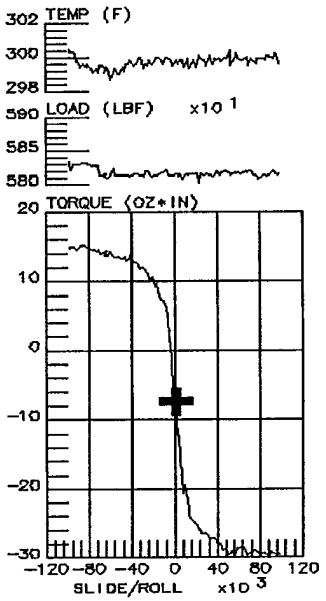
CC 89-180 Vistalube 7 #117
300F 30LBF 10198RPM 19 FILE: vist-06



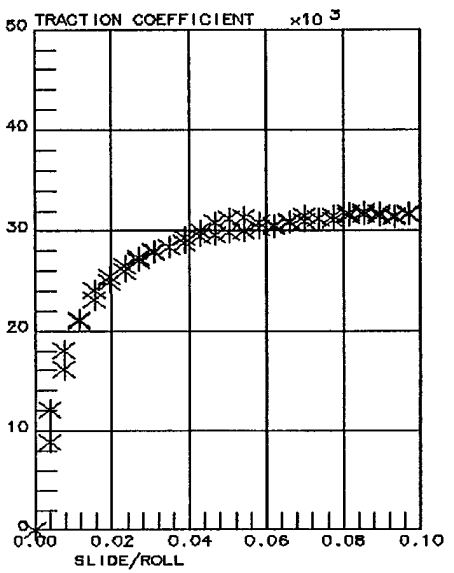
# of Points Modified = 0



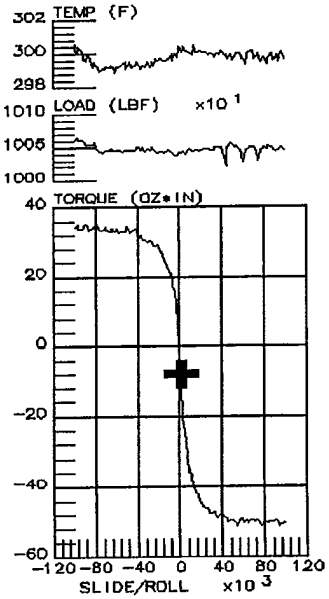
CC 89-180 Vistalube 7 #118
300F 58LBF 10198RPM 20 FILE: vist-06



# of Points Modified = 3



CC 89-180 Vistalube 7 #119
300F 100LBF 10198RPM 21 FILE: vist-06



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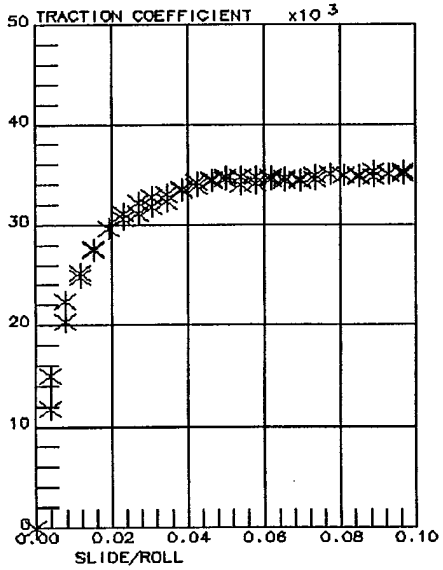
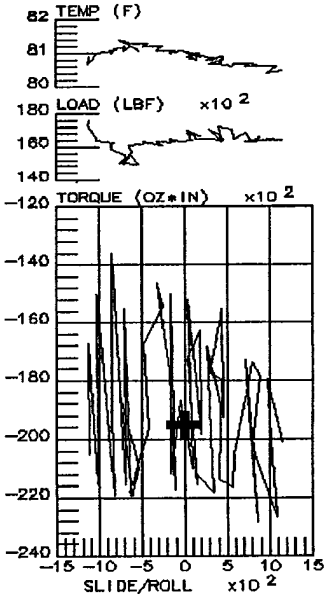
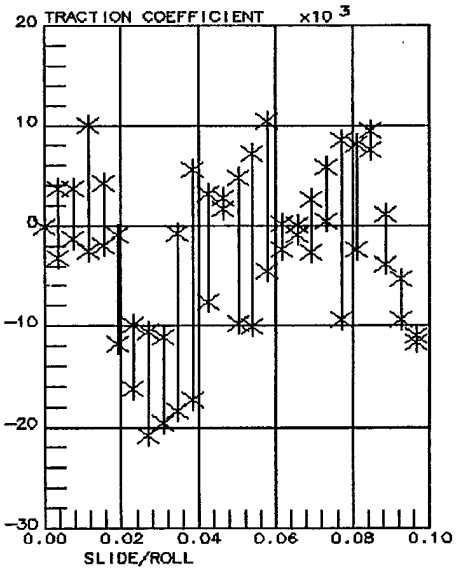


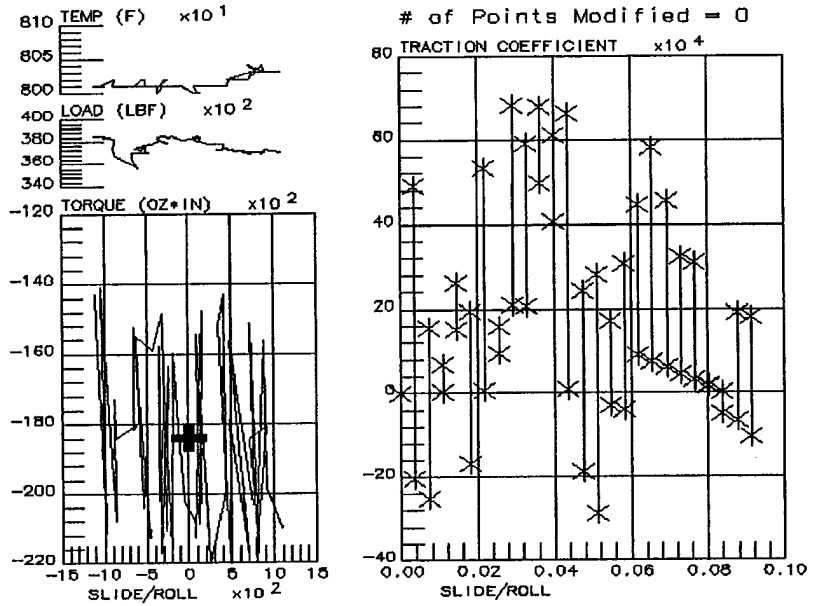
CC 89-180 Vistalube 7 #120
80F 2LBF 76RPM 1 FILE: vist-07



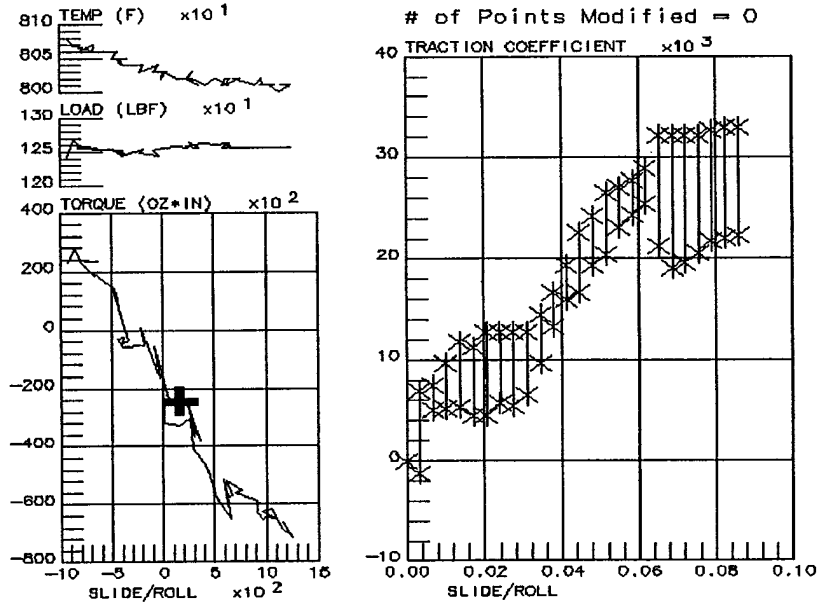
# of Points Modified = 0



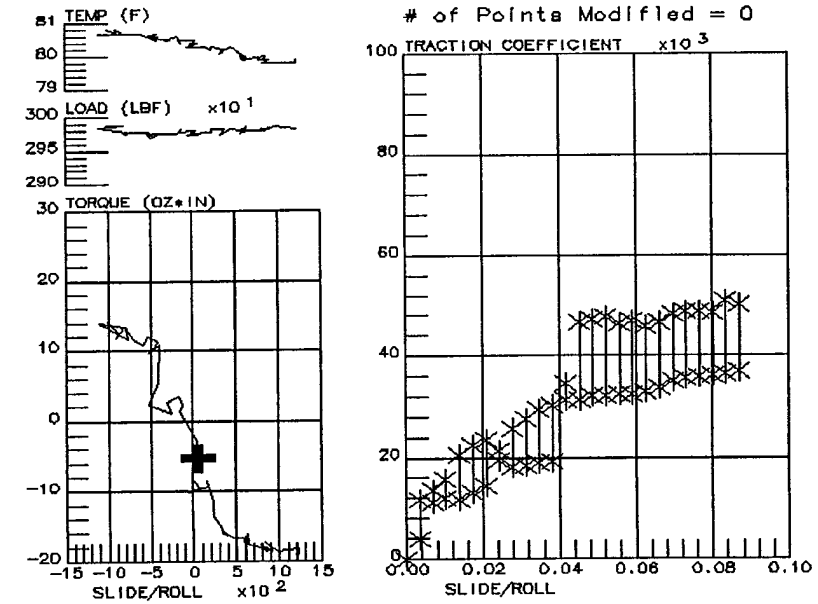
CC 89-180 Vistalube 7 #121
80F 4LBF 76RPM 2 FILE: vist-07



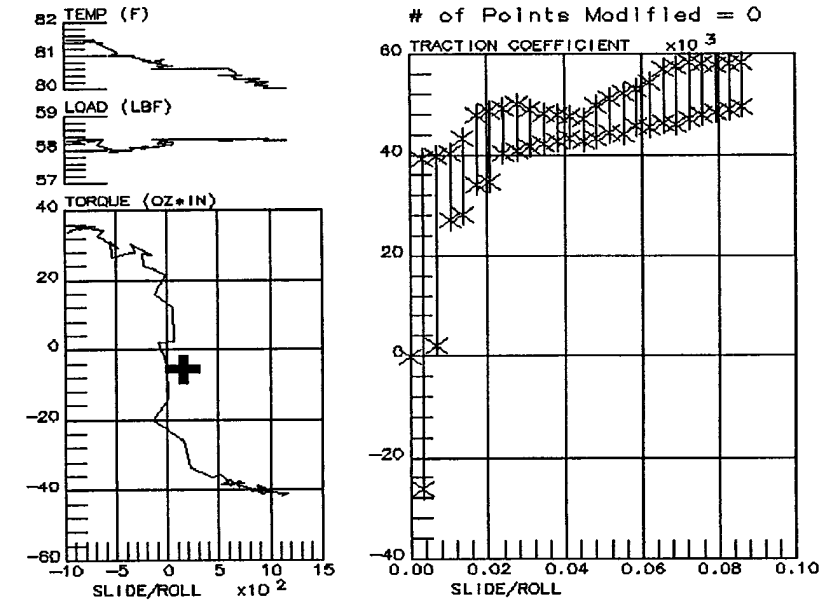
CC 89-180 Vistalube 7 #122
80F 13LBF 76RPM 3 FILE: vist-07



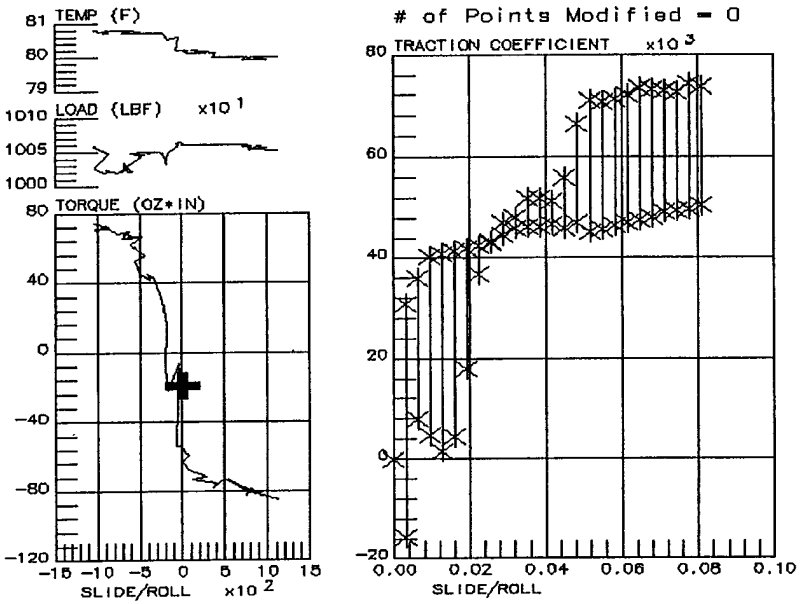
CC 89-180 Vistalube 7 #123
80F 30LBF 76RPM 4 FILE: vist-07



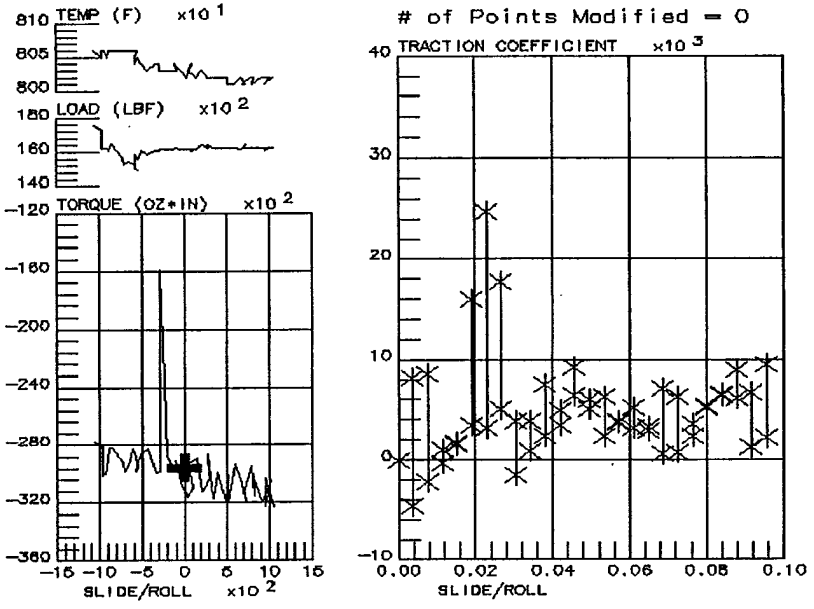
CC 89-180 Vistalube 7 #124
80F 58LBF 76RPM 5 FILE: vist-07



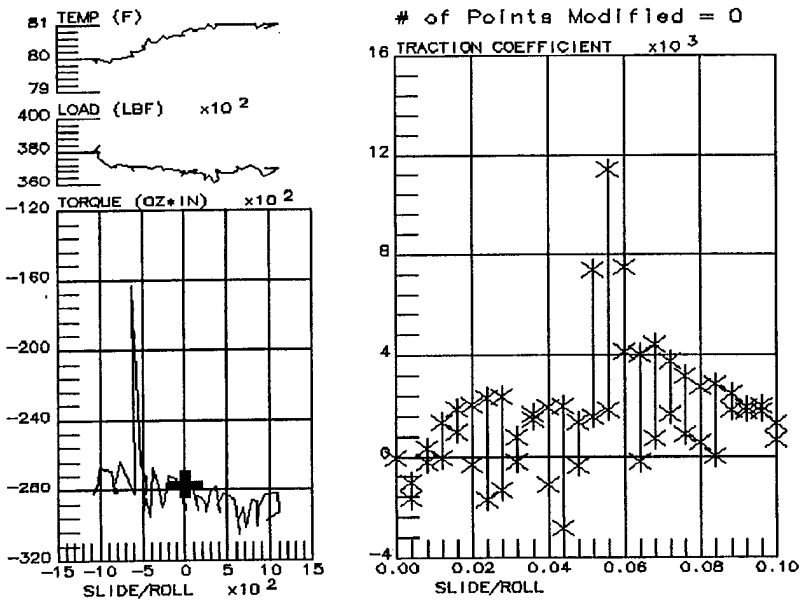
CC 89-180 Vistalube 7 #125
80F 100LBF 76RPM 6 FILE: vist-07



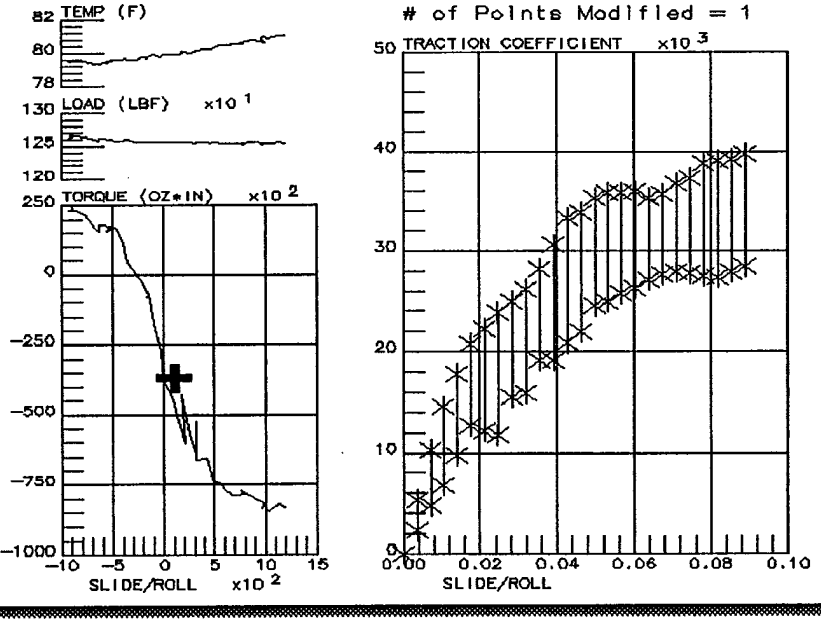
CC 89-180 Vistalube 7 #126
80F 2LBF 152RPM 7 FILE: vist-07



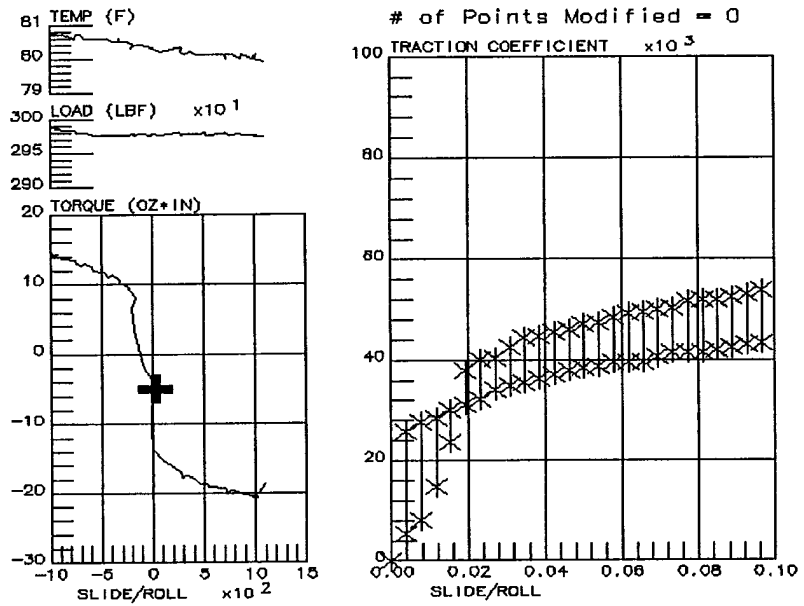
CC 89-180 Vistalube 7 #127
80F 4LBF 152RPM 8 FILE: vist-07



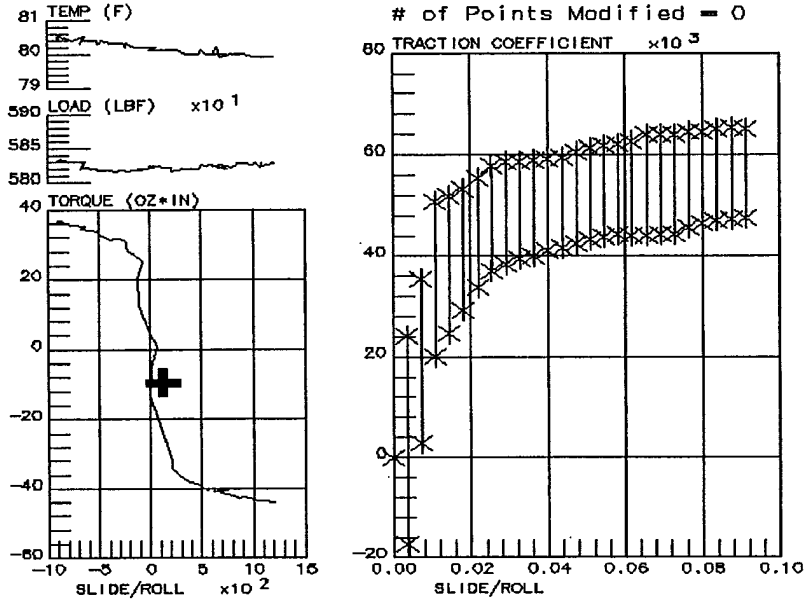
CC 89-180 Vistalube 7 #128
80F 13LBF 152RPM 9 FILE: vist-07



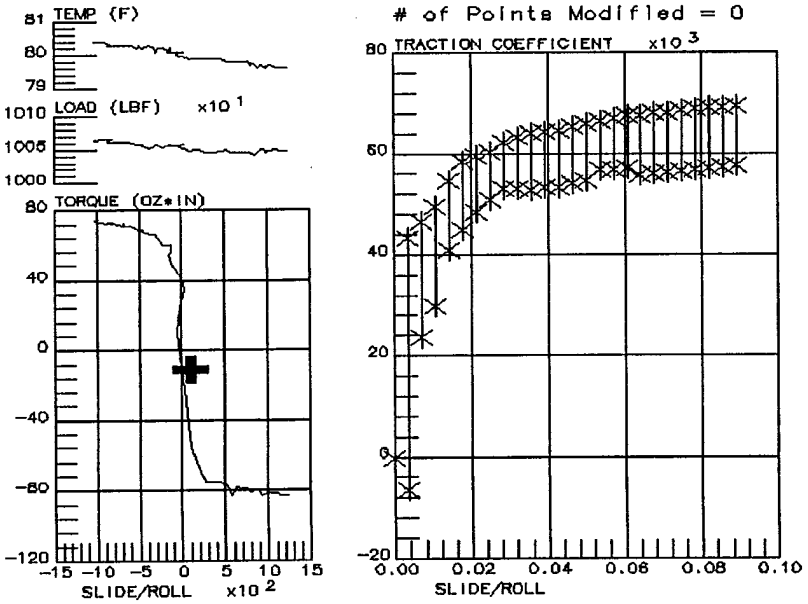
CC 89-180 Vistalube 7 #129
80F 30LBF 152RPM 10 FILE: vist-07



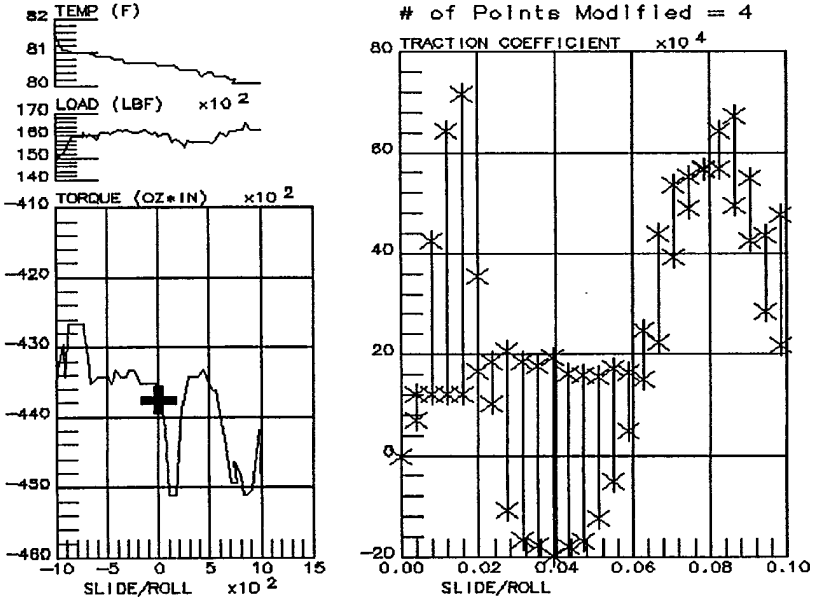
CC 89-180 Vistalube 7 #130
80F 58LBF 152RPM 11 FILE: vist-07



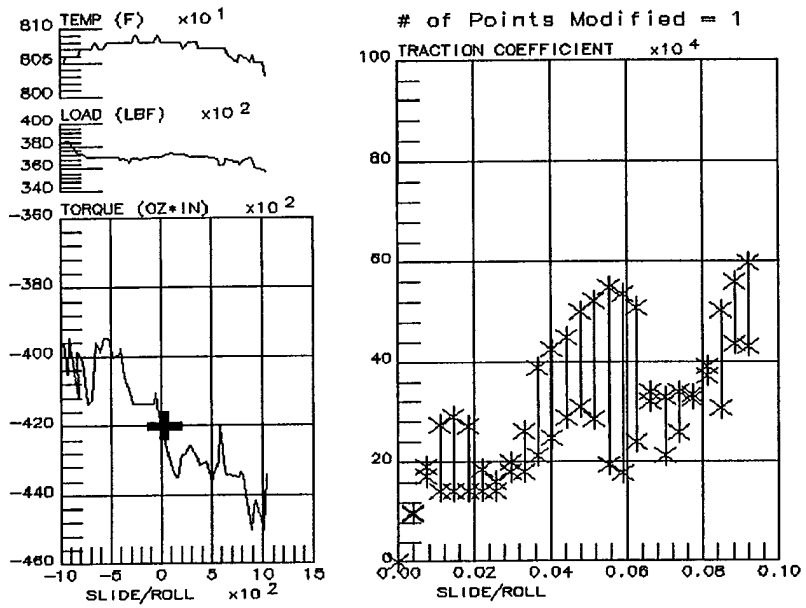
CC 89-180 Vistalube 7 #131
80F 100LBF 152RPM 12 FILE: vist-07



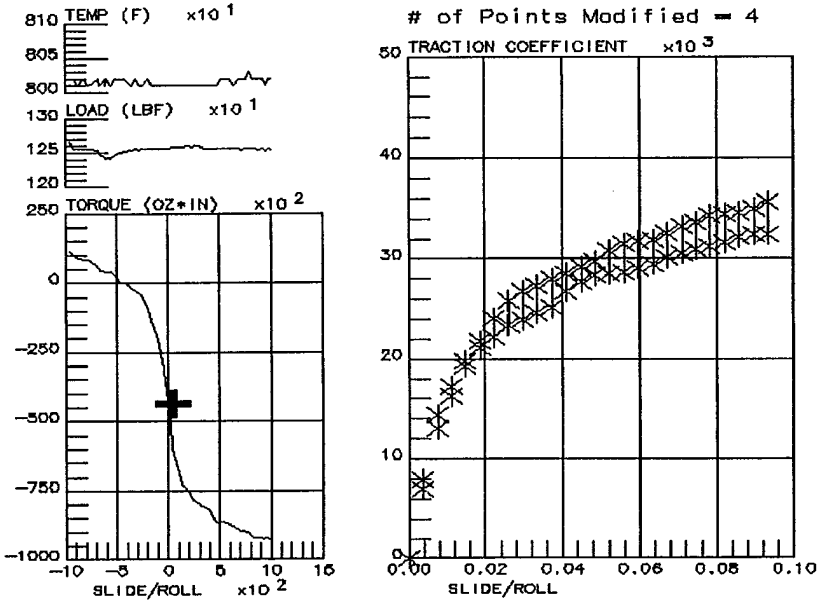
CC 89-180 Vistalube 7 #132
80F 2LBF 343RPM 13 FILE: vist-07



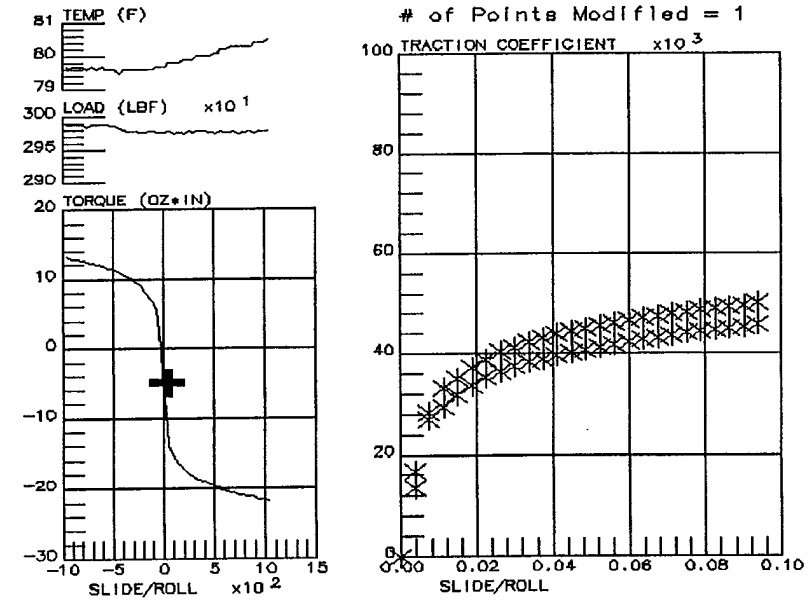
CC 89-180 Vistalube 7 #133
80F 4LBF 343RPM 14 FILE: vist-07



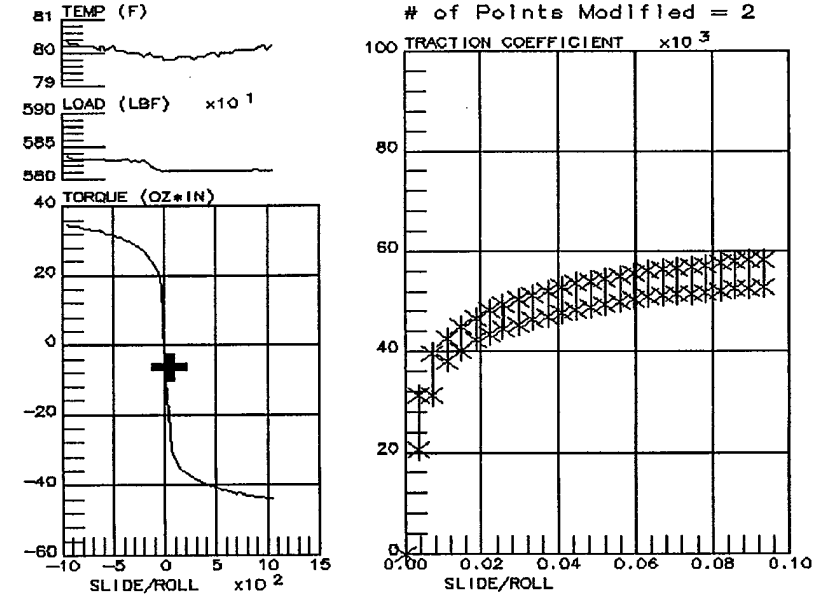
CC 89-180 Vistalube 7 #134
80F 13LBF 343RPM 15 FILE: vist-07



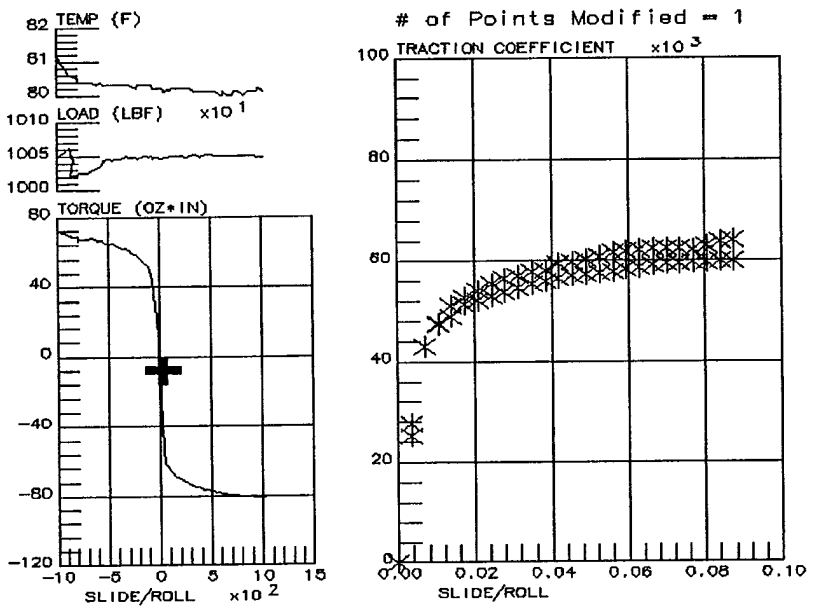
CC 89-180 Vistalube 7 #135
80F 30LBF 343RPM 16 FILE: vist-07



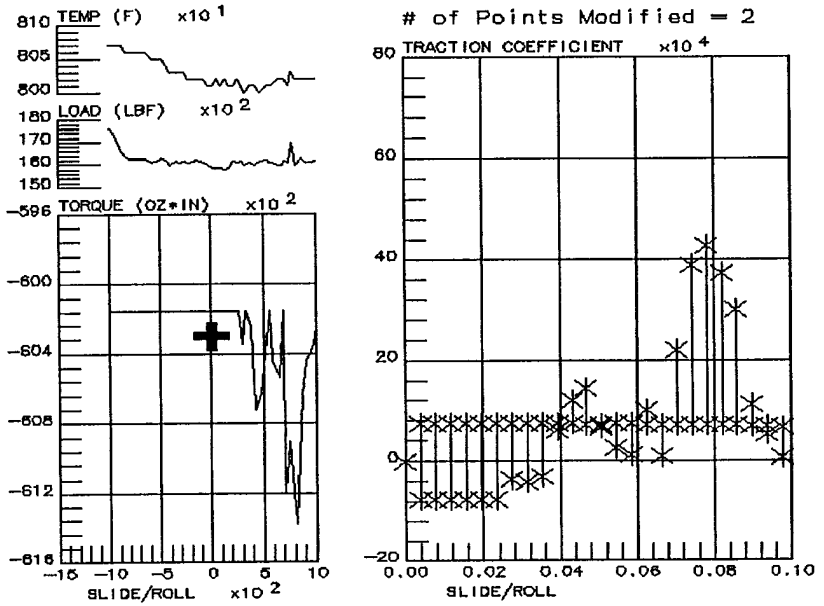
CC 89-180 Vistalube 7 #136
80F 58LBF 343RPM 17 FILE: vist-07



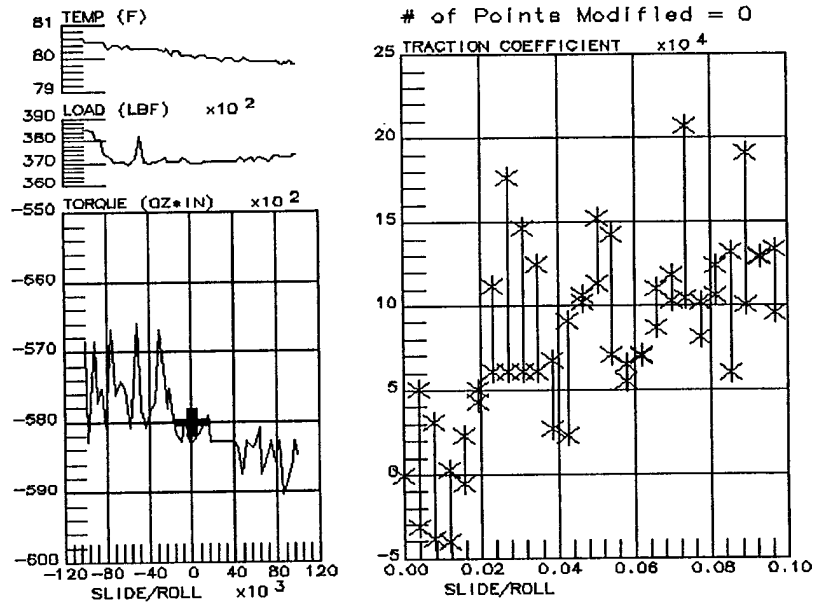
CC 89-180 Vistalube 7 #137
80F 100LBF 343RPM 18 FILE: vist-07



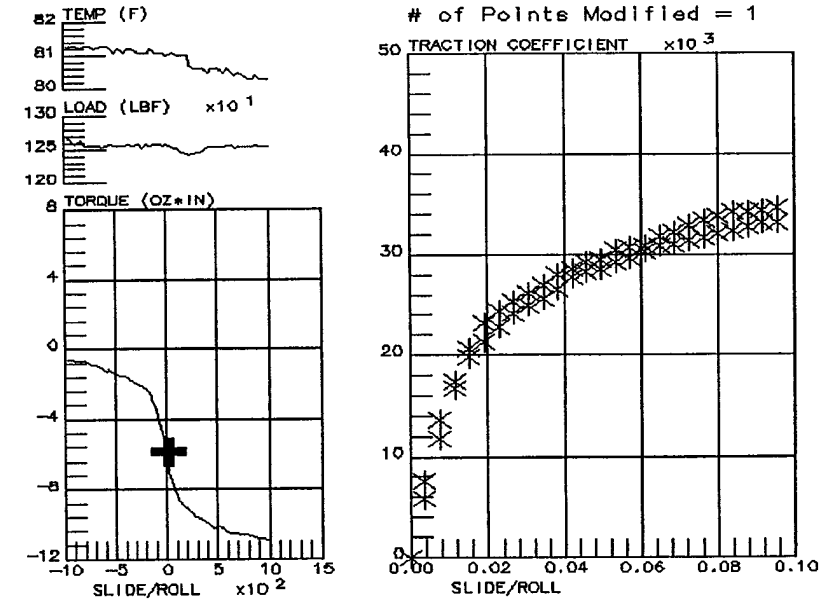
CC 89-180 Vistalube 7 #138
80F 2LBF 650RPM 19 FILE: vist-07



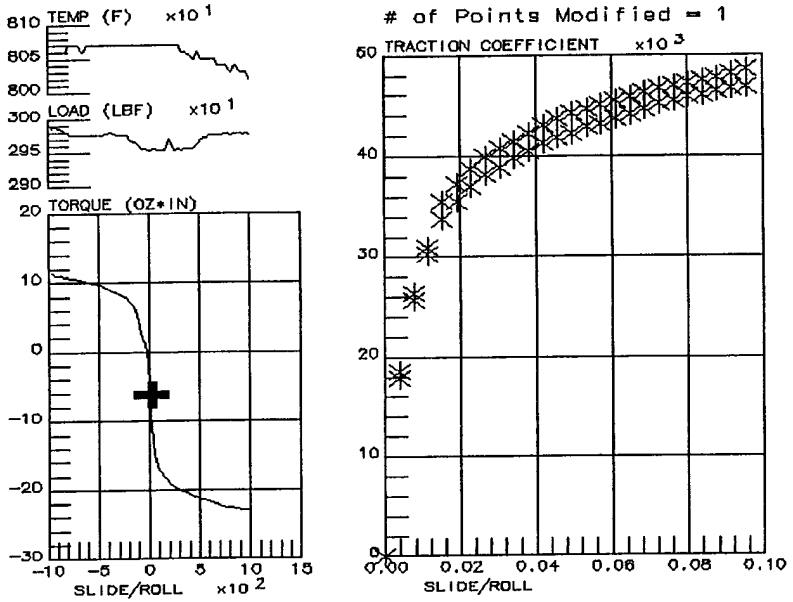
CC 89-180 Vistalube 7 #139
80F 4LBF 650RPM 20 FILE: vist-07



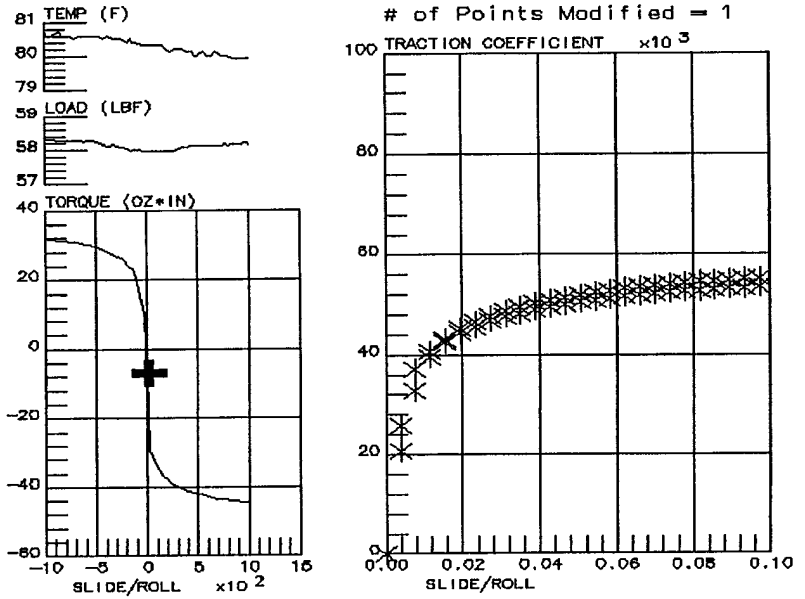
CC 89-180 Vistalube 7 #140
80F 13LBF 650RPM 21 FILE: vist-07



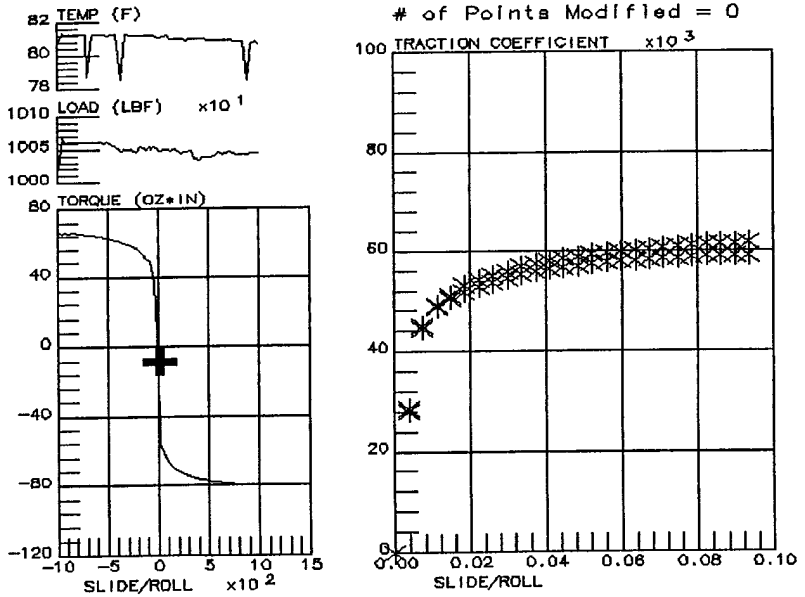
CC 89-180 Vistalube 7 #141
80F 30LBF 650RPM 22 FILE: vist-07



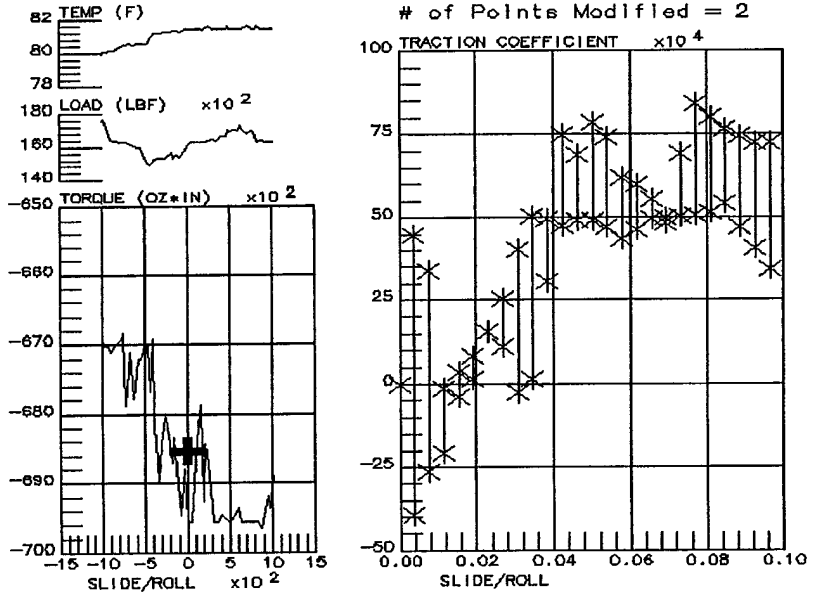
CC 89-180 Vistalube 7 #142
80F 58LBF 650RPM 23 FILE: vist-07

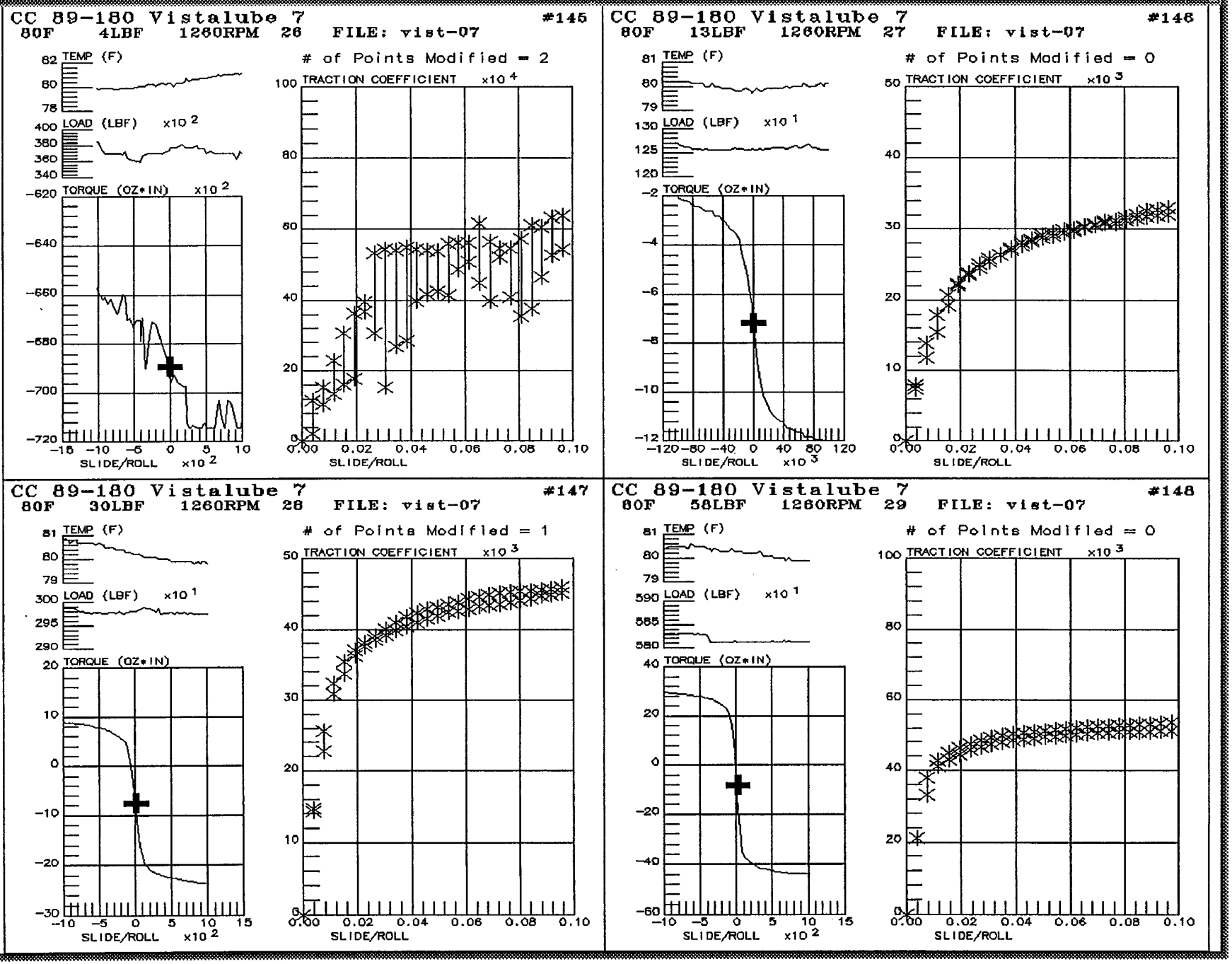


CC 89-180 Vistalube 7 #143
80F 100LBF 650RPM 24 FILE: vist-07

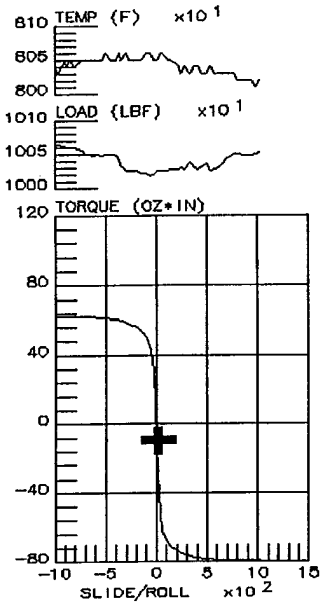


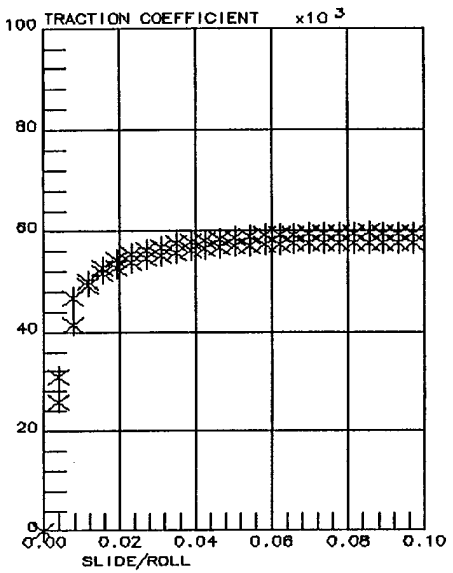
CC 89-180 Vistalube 7 #144
80F 2LBF 1260RPM 25 FILE: vist-07



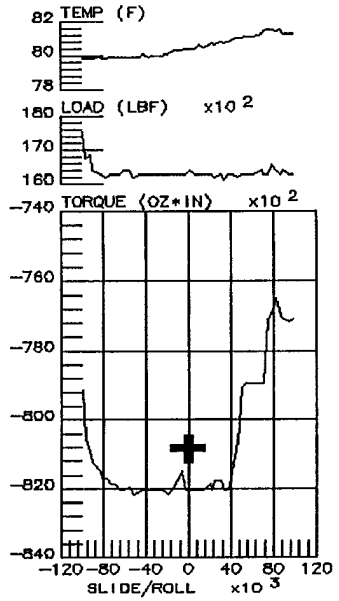

CC 89-180 Vistalube 7 #145
80F 4LBF 1260RPM 26 FILE: vist-07
# of Points Modified = 2
TEMP (F)
LOAD (LBF) x10 2
TORQUE (OZ*IN) x10 2
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 4
SLIDE/ROLL
CC 89-180 Vistalube 7 #146
80F 13LBF 1260RPM 27 FILE: vist-07
# of Points Modified = 0
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 3
TRACTION COEFFICIENT x10 3
SLIDE/ROLL
CC 89-180 Vistalube 7 #147
80F 30LBF 1260RPM 28 FILE: vist-07
# of Points Modified = 1
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL
CC 89-180 Vistalube 7 #148
80F 58LBF 1260RPM 29 FILE: vist-07
# of Points Modified = 0
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL

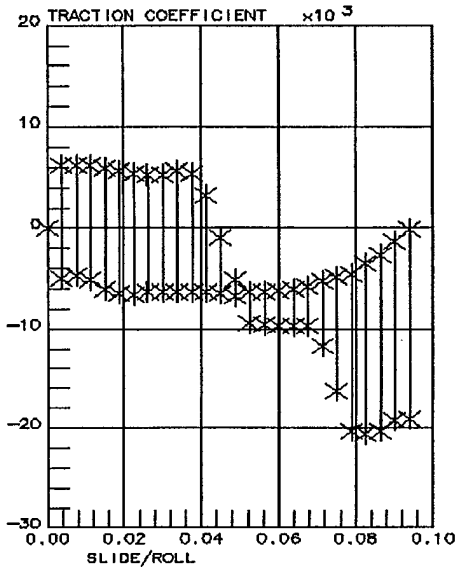
CC 89-180 Vistalube 7 #149
80F 100LBF 1260RPM 30 FILE: vist-07



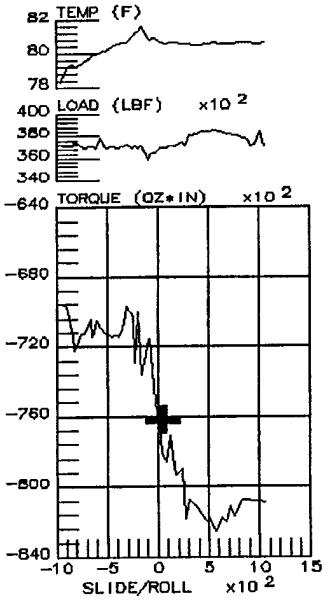


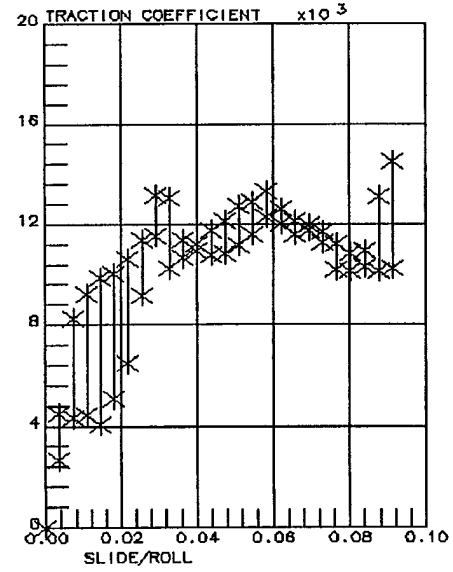
CC 89-180 Vistalube 7 #150
80F 2LBF 2559RPM 31 FILE: vist-07



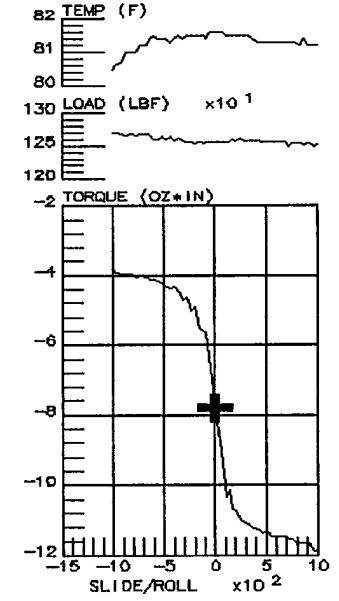


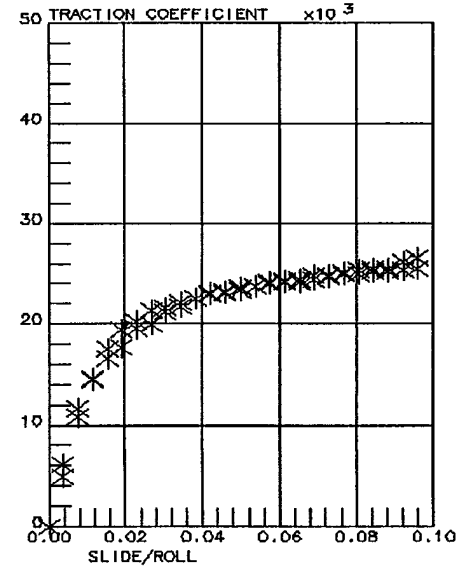
CC 89-180 Vistalube 7 #151
80F 4LBF 2559RPM 32 FILE: vist-07



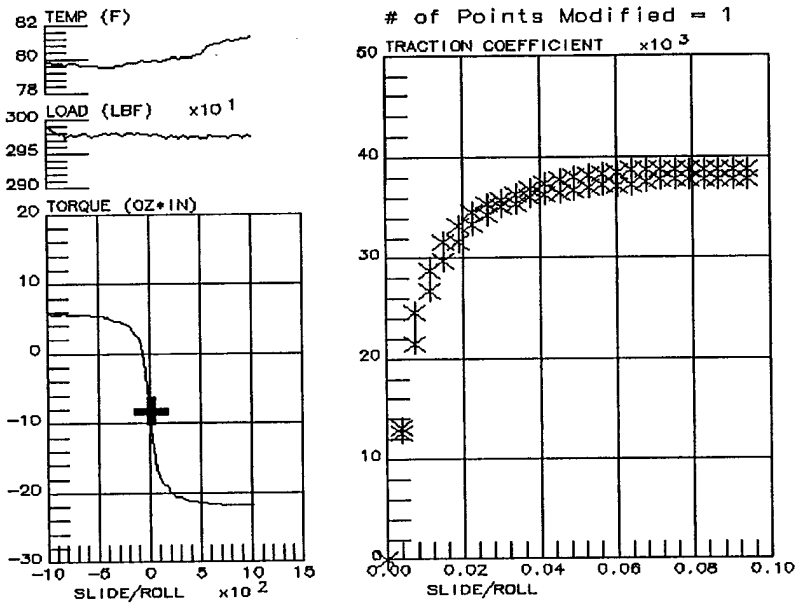


CC 89-180 Vistalube 7 #152
80F 13LBF 2559RPM 33 FILE: vist-07



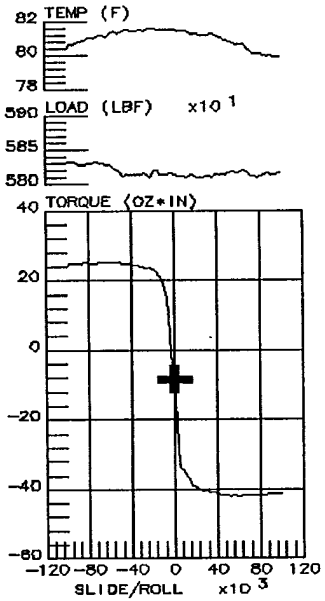


CC 89-180 Vistalube 7 #153
80F 30LBF 2559RPM 34 FILE: vist-07

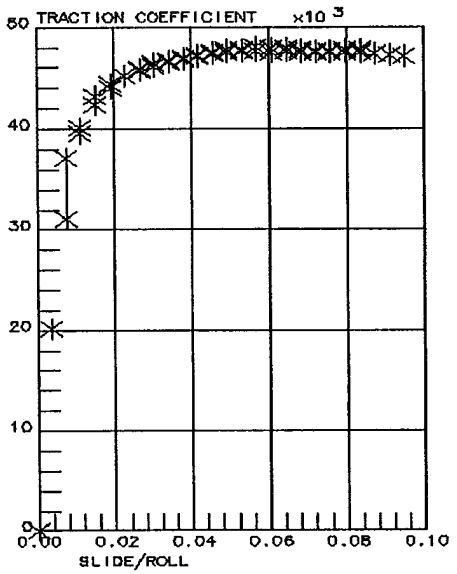


# of Points Modified = 1

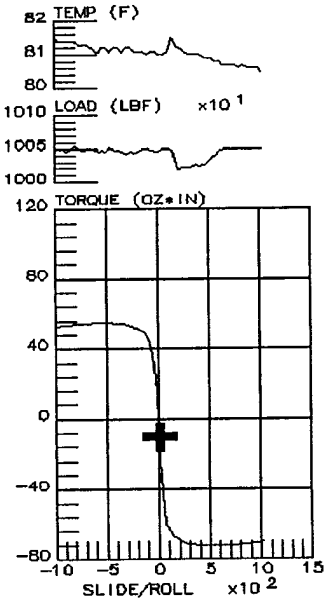
CC 89-180 Vistalube 7 #154
80F 58LBF 2559RPM 35 FILE: vist-07



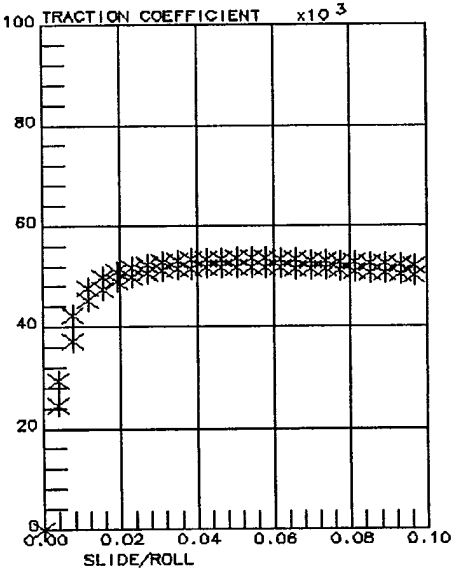
# of Points Modified = 0



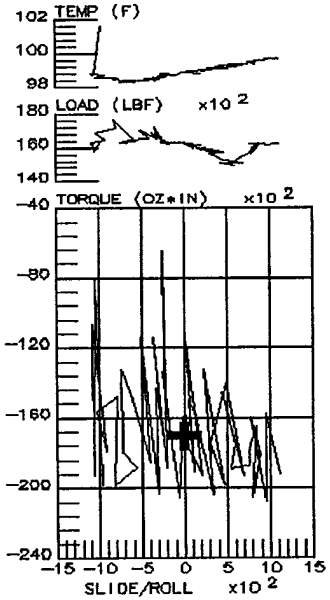
CC 89-180 Vistalube 7 #155
80F 100LBF 2559RPM 36 FILE: vist-07



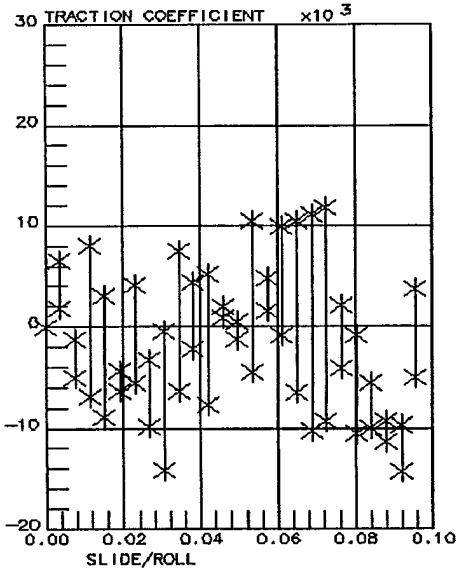
# of Points Modified = 0



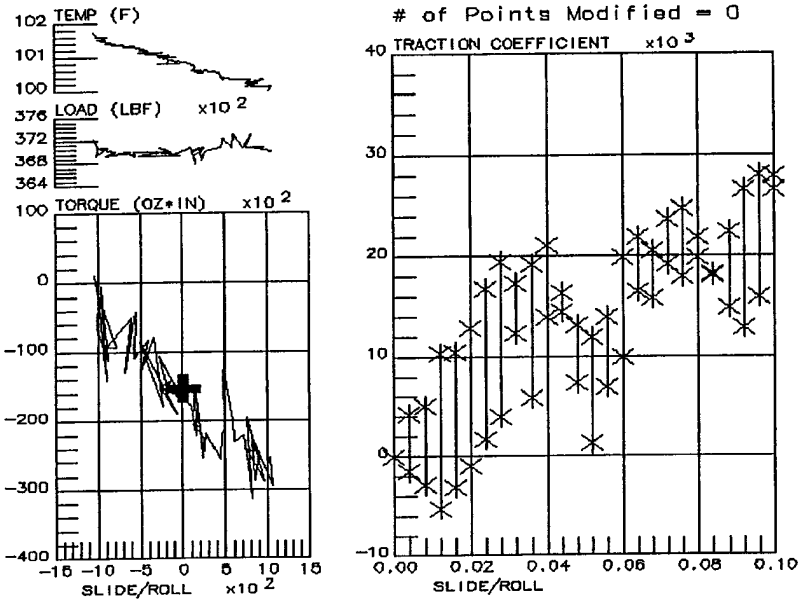
CC 89-180 Vistalube 7 #156
100F 2LBF 76RPM 1 FILE: vist-08



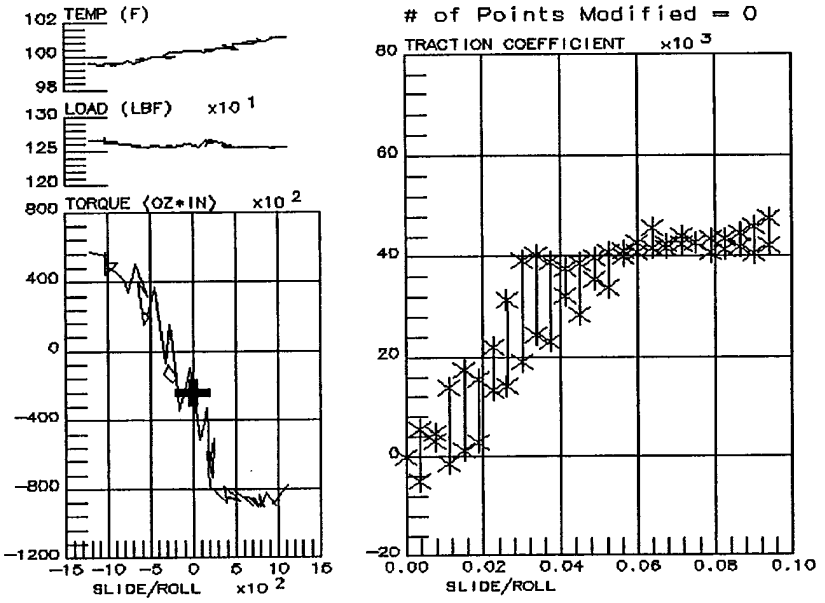
# of Points Modified = 1



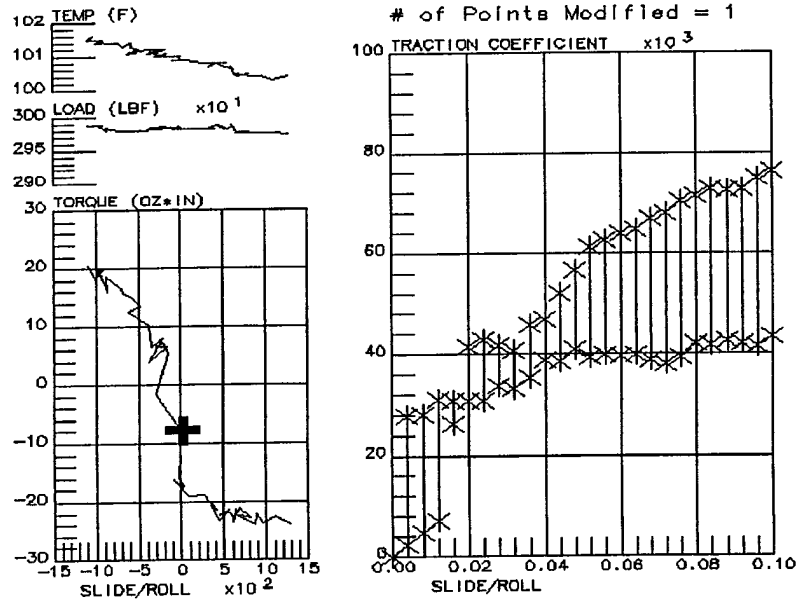
CC 89-180 Vistalube 7 #157
100F 4LBF 76RPM 2 FILE: vist-08



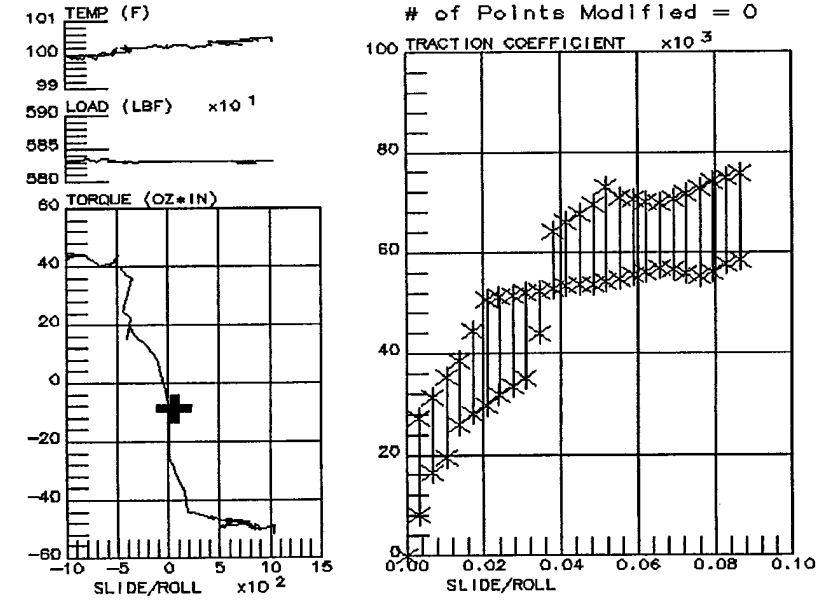
CC 89-180 Vistalube 7 #158
100F 13LBF 76RPM 3 FILE: vist-08



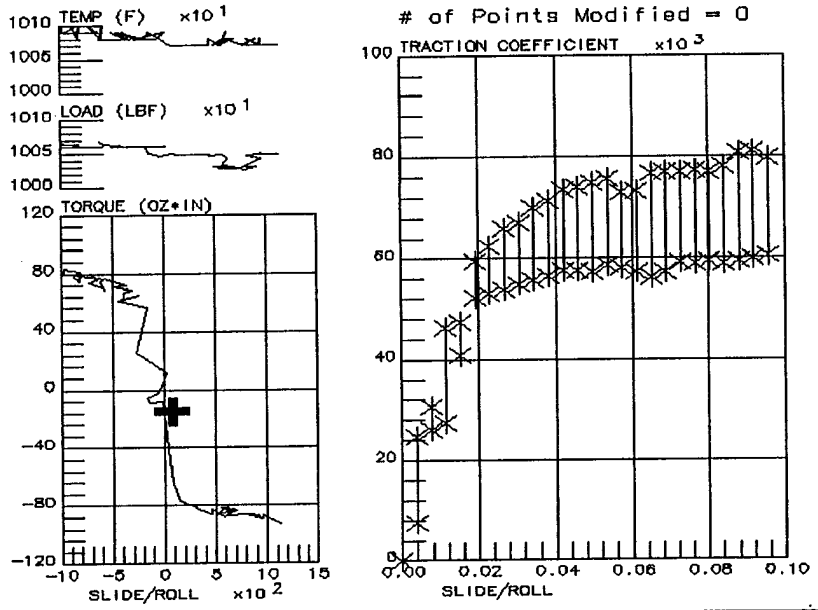
CC 89-180 Vistalube 7 #159
100F 30LBF 76RPM 4 FILE: vist-08



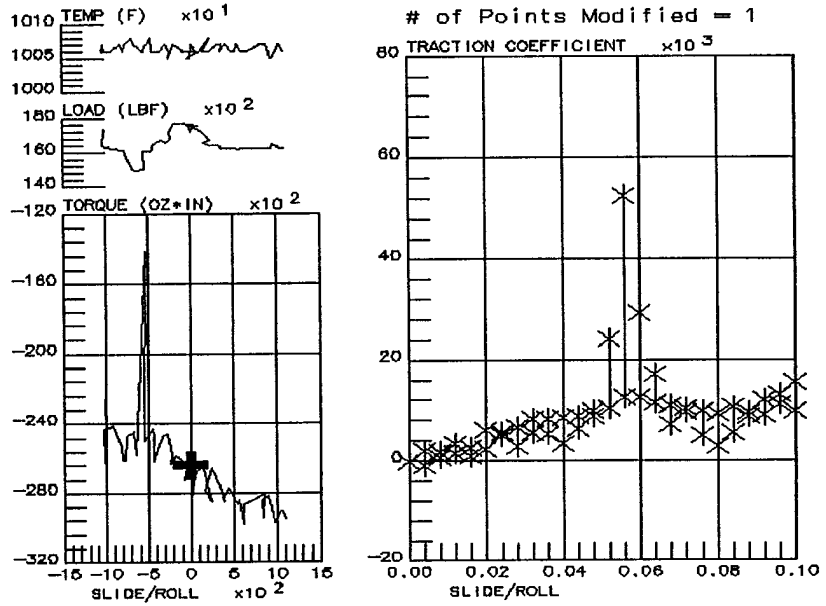
CC 89-180 Vistalube 7 #160
100F 58LBF 76RPM 5 FILE: vist-08



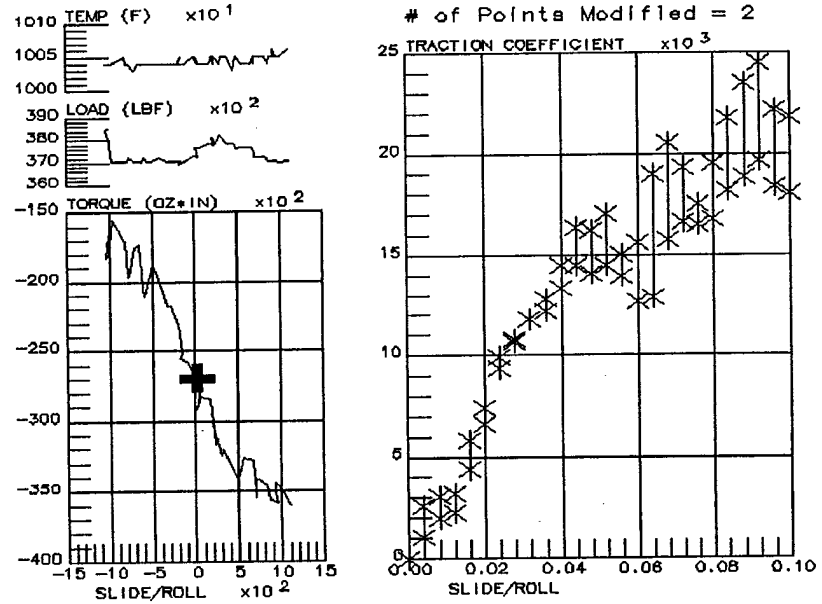
CC 89-180 Vistalube 7 #161
100F 100LBF 76RPM 6 FILE: vist-08



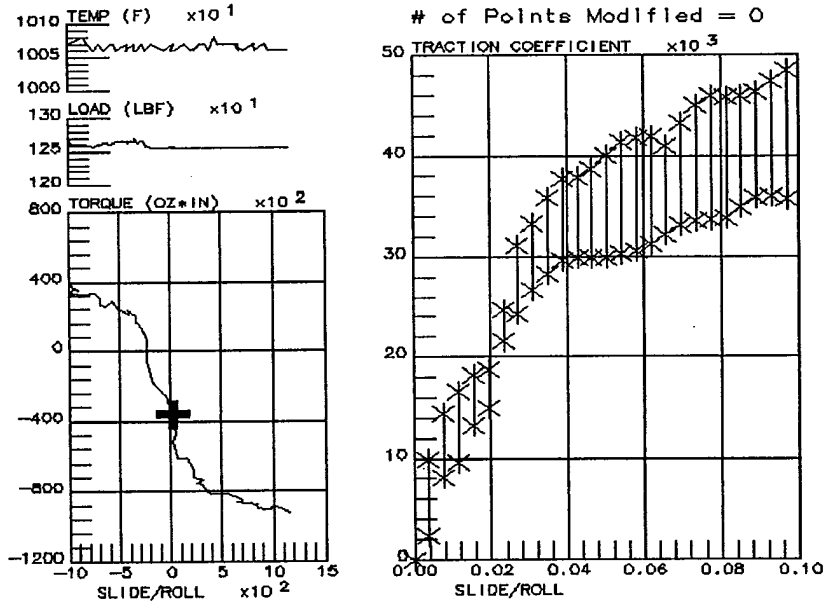
CC 89-180 Vistalube 7 #162
100F 2LBF 152RPM 7 FILE: vist-08



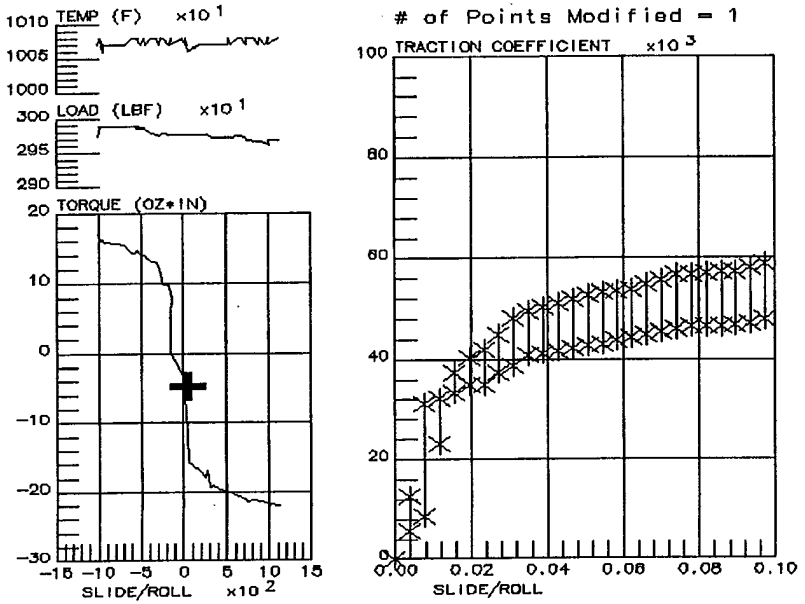
CC 89-180 Vistalube 7 #163
100F 4LBF 152RPM 8 FILE: vist-08



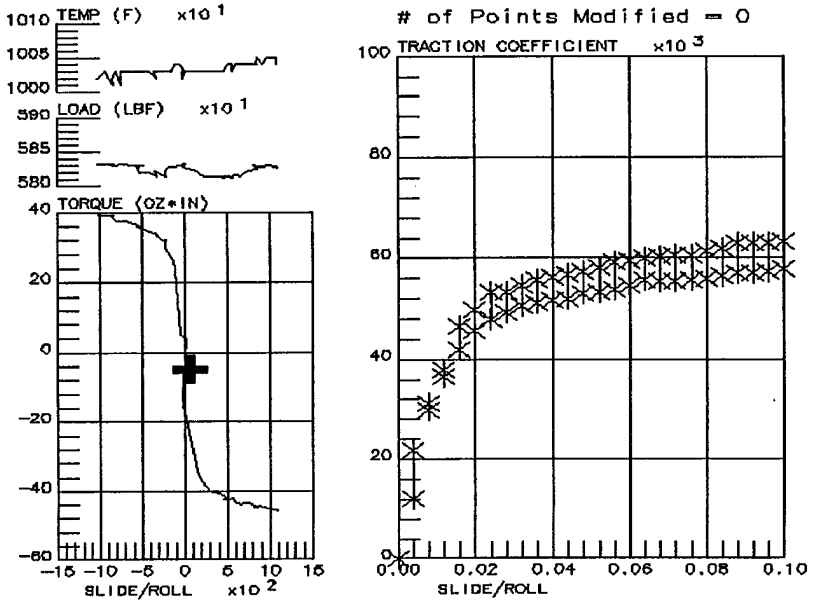
CC 89-180 Vistalube 7 #164
100F 13LBF 152RPM 9 FILE: vist-08



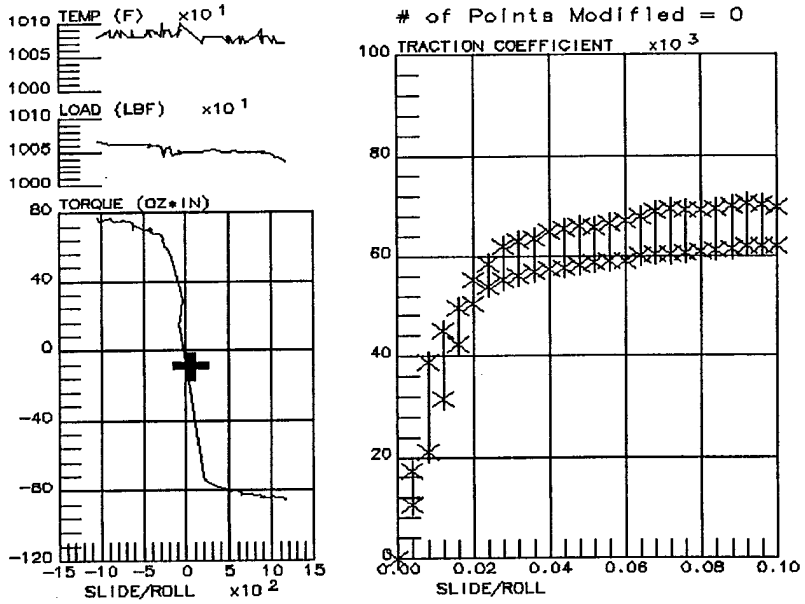
CC 89-180 Vistalube 7 #165
100F 30LBF 152RPM 10 FILE: vist-08



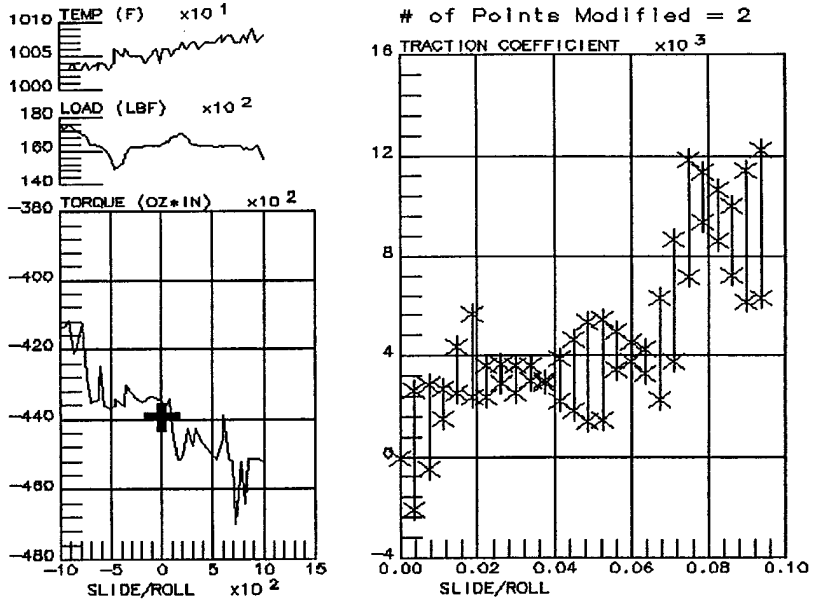
CC 89-180 Vistalube 7 #166
100F 58LBF 152RPM 11 FILE: vist-08



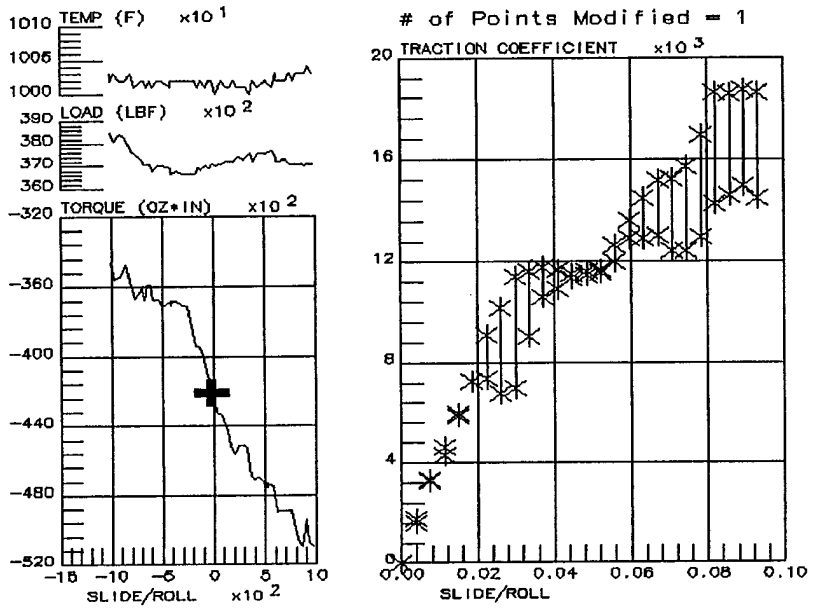
CC 89-180 Vistalube 7 #167
100F 100LBF 152RPM 12 FILE: vist-08



CC 89-180 Vistalube 7 #168
100F 2LBF 343RPM 13 FILE: vist-08

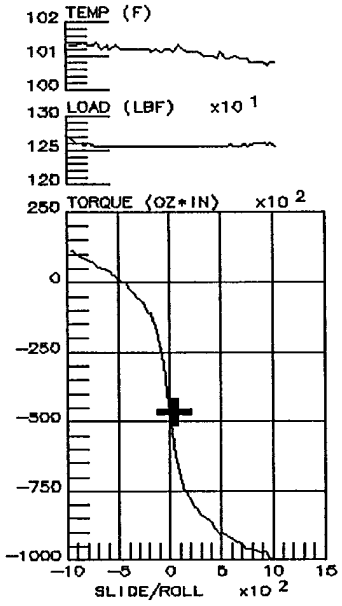


CC 89-180 Vistalube 7 #169
100F 4LBF 343RPM 14 FILE: vist-08

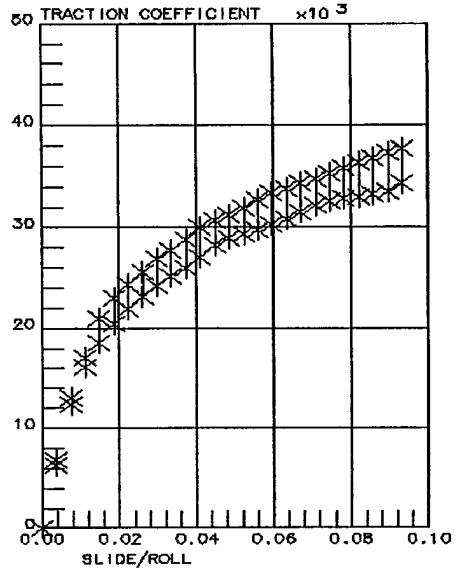


# of Points Modified = 1

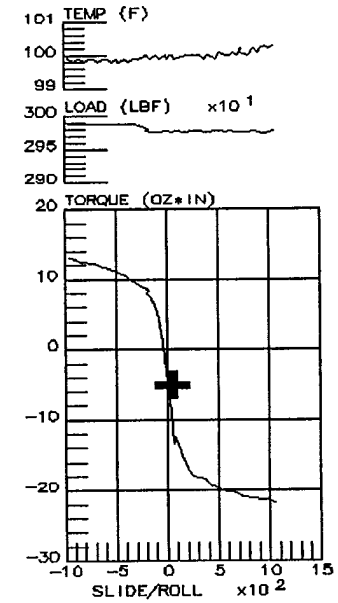
CC 89-180 Vistalube 7 #170
100F 13LBF 343RPM 15 FILE: vist-08



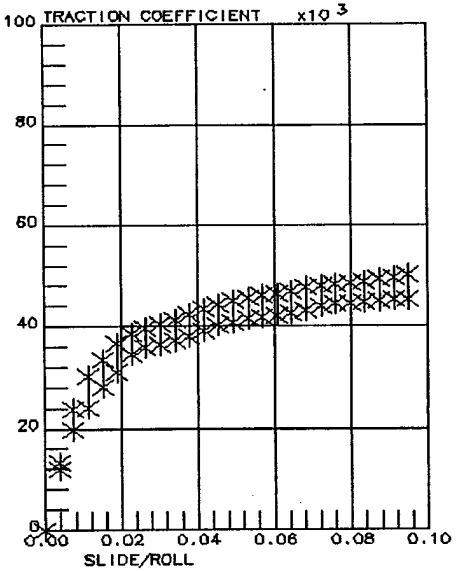
# of Points Modified = 4



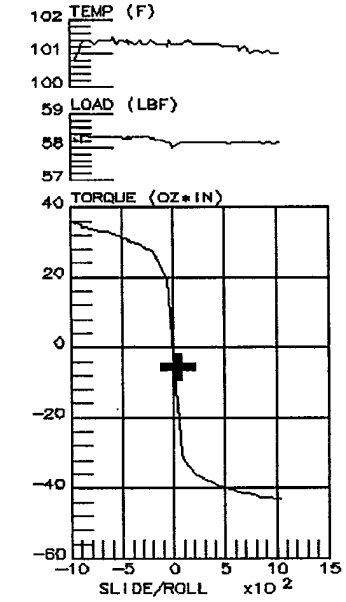
CC 89-180 Vistalube 7 #171
100F 30LBF 343RPM 16 FILE: vist-08



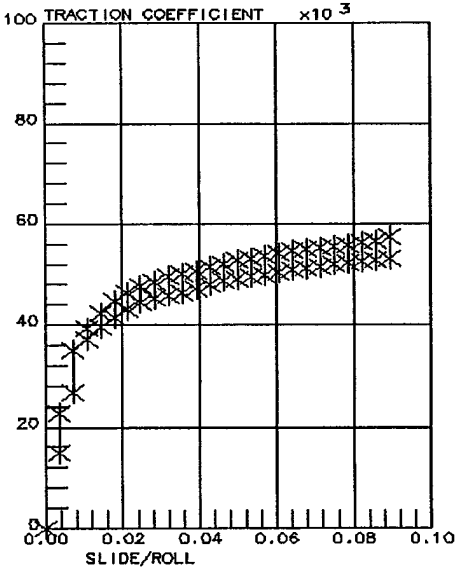
# of Points Modified = 1



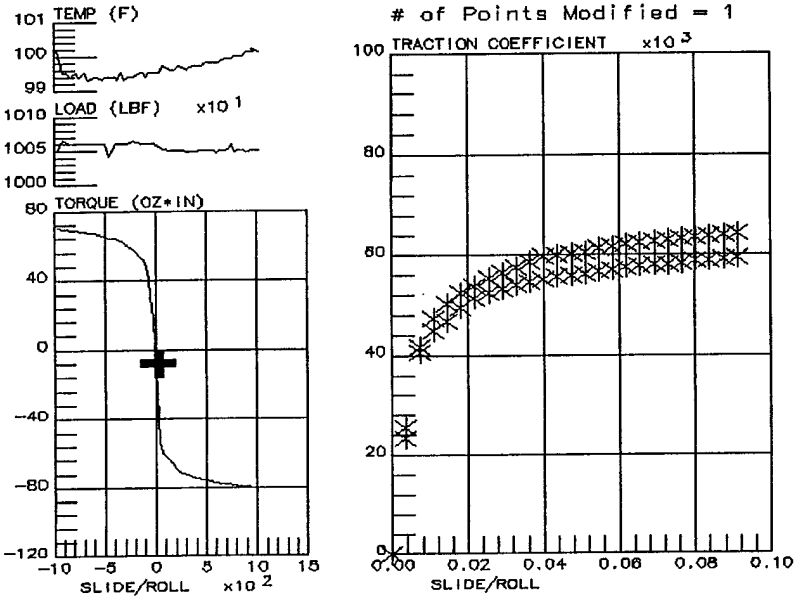
CC 89-180 Vistalube 7 #172
100F 58LBF 343RPM 17 FILE: vist-08



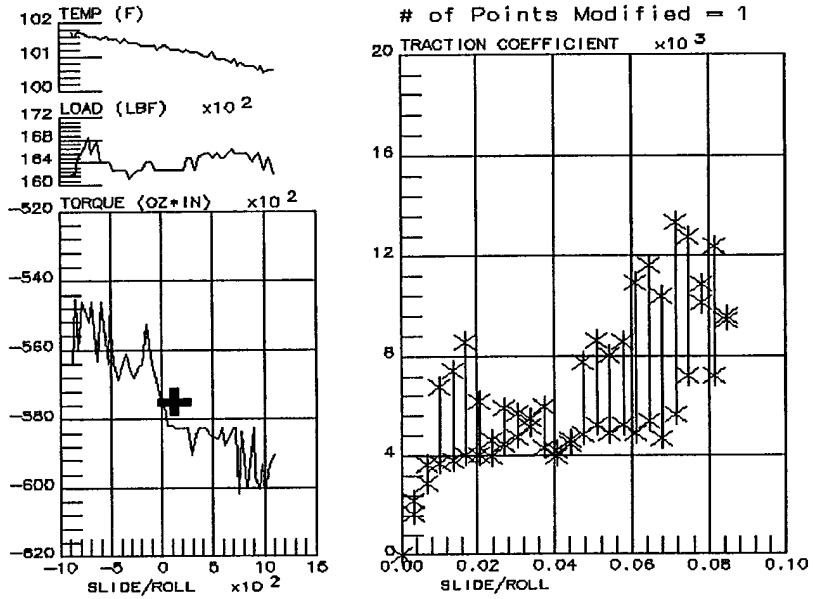
# of Points Modified = 1



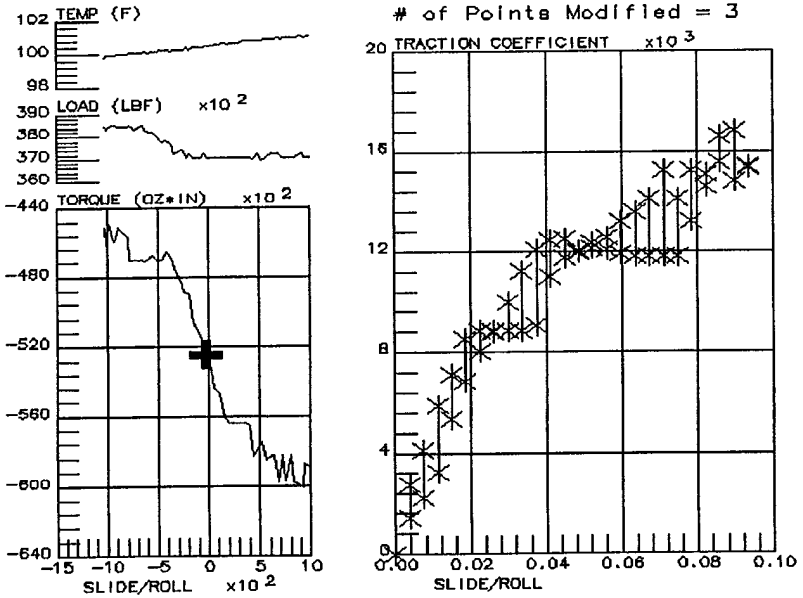
CC 89-180 Vistalube 7 #173
100F 100LBF 343RPM 18 FILE: vist-08



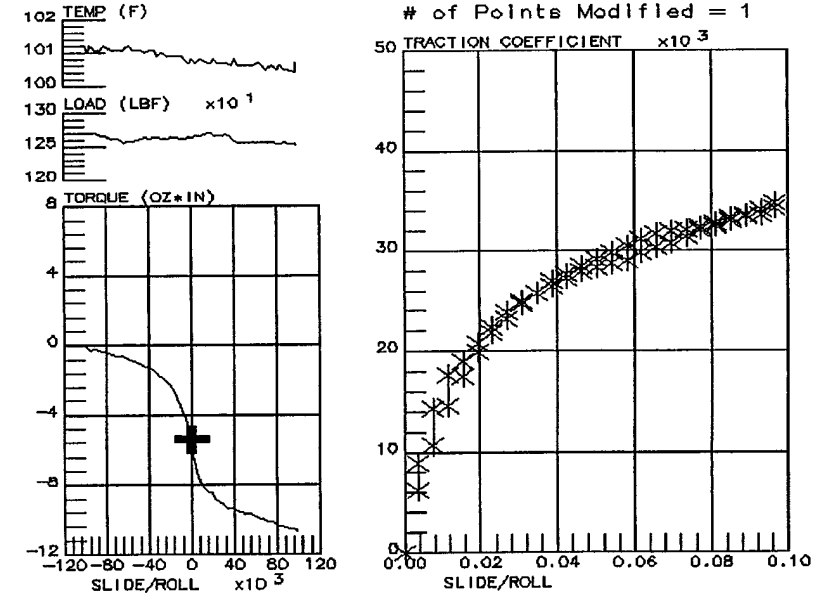
CC 89-180 Vistalube 7 #174
100F 2LBF 650RPM 19 FILE: vist-08



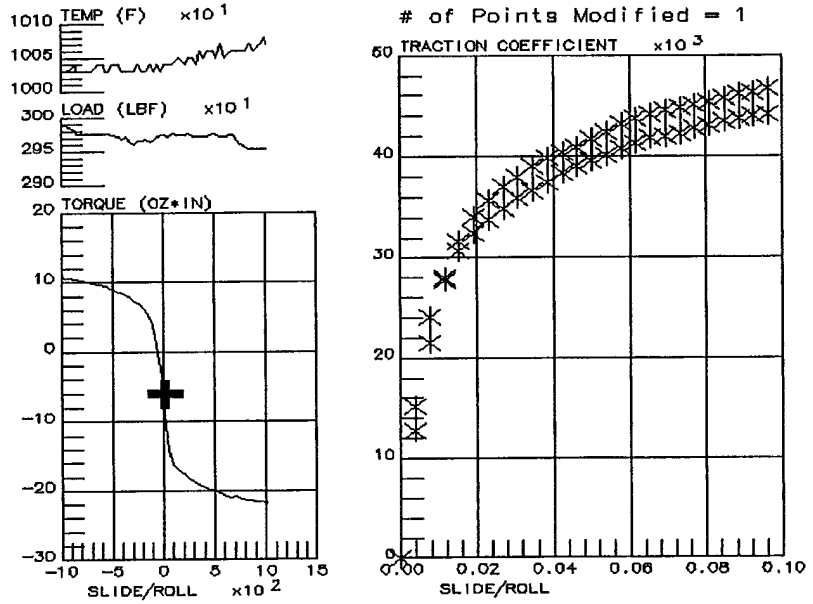
CC 89-180 Vistalube 7 #175
100F 4LBF 650RPM 20 FILE: vist-08



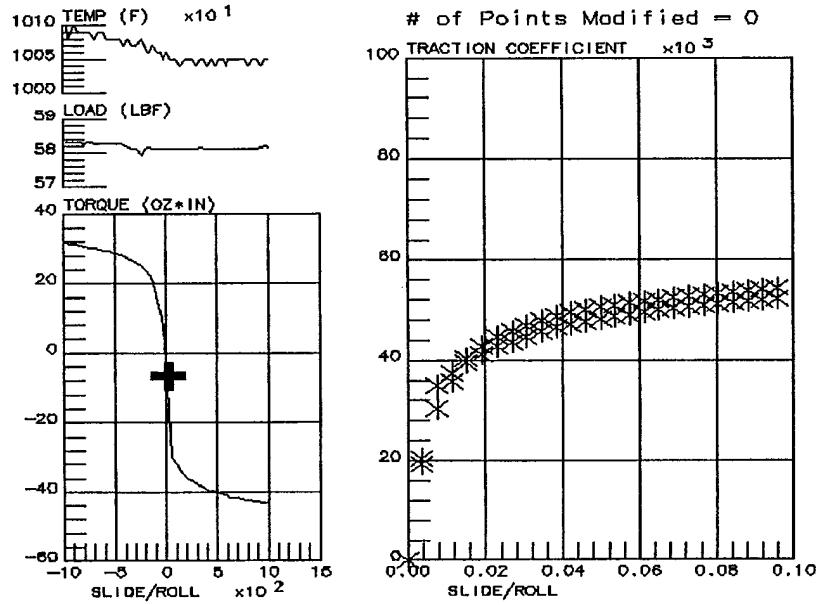
CC 89-180 Vistalube 7 #176
100F 13LBF 650RPM 21 FILE: vist-08



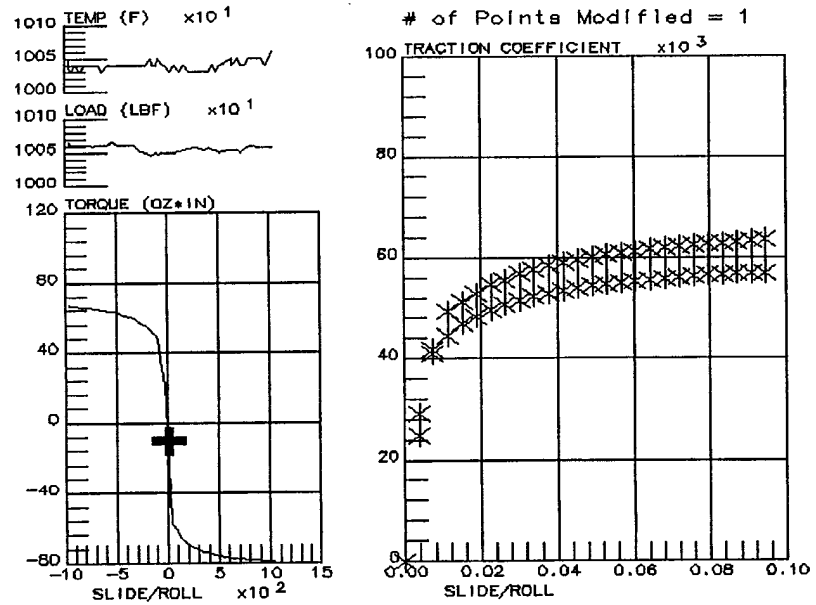
CC 89-180 Vistalube 7 #177
100F 30LBF 650RPM 22 FILE: vist-08



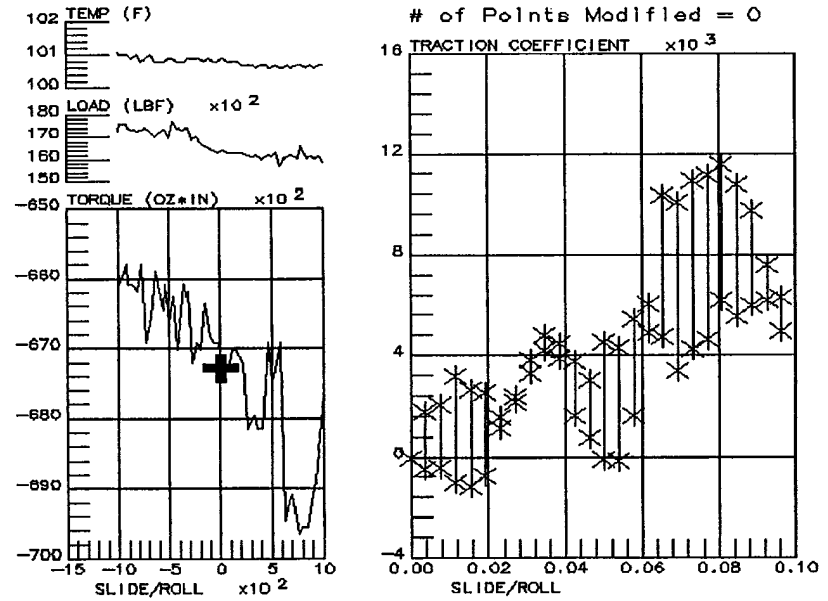
CC 89-180 Vistalube 7 #178
100F 58LBF 650RPM 23 FILE: vist-08



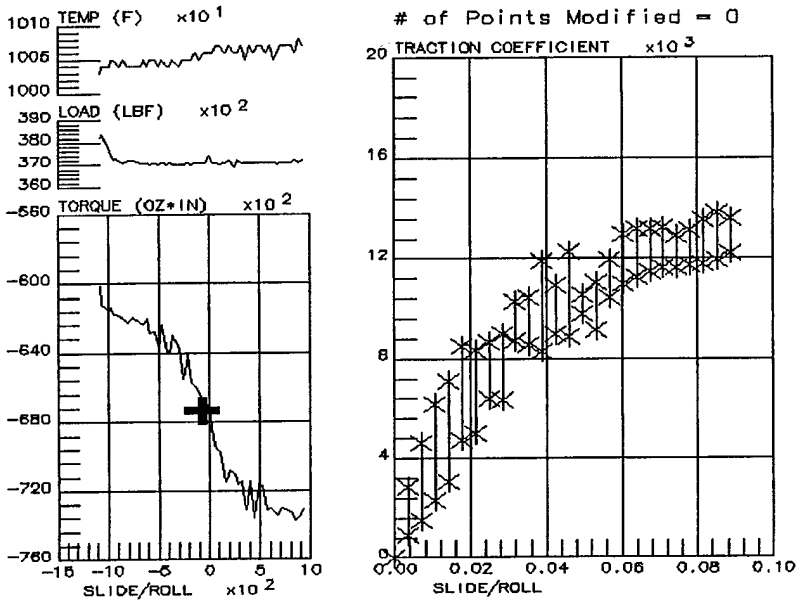
CC 89-180 Vistalube 7 #179
100F 100LBF 650RPM 24 FILE: vist-08



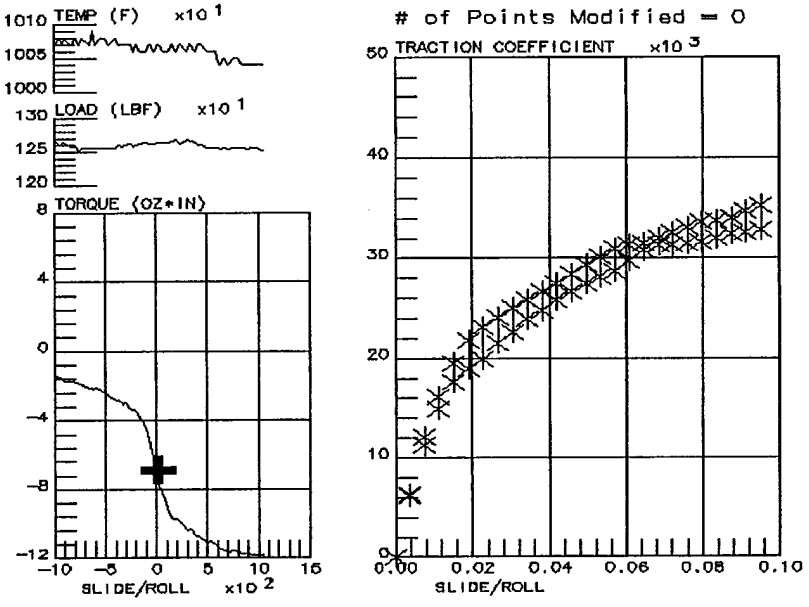
CC 89-180 Vistalube 7 #180
100F 2LBF 1260RPM 25 FILE: vist-08



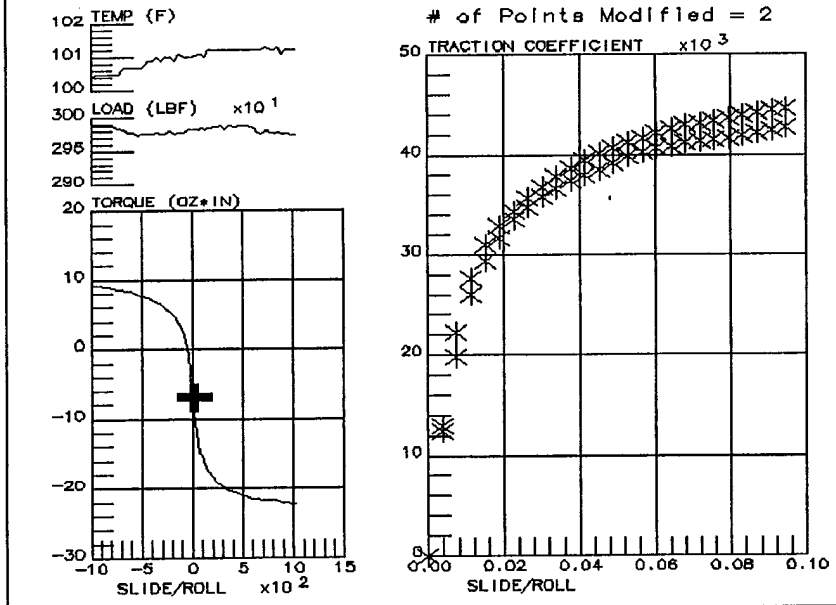
CC 89-180 Vistalube 7 #181
100F 4LBF 1260RPM 26 FILE: vist-08



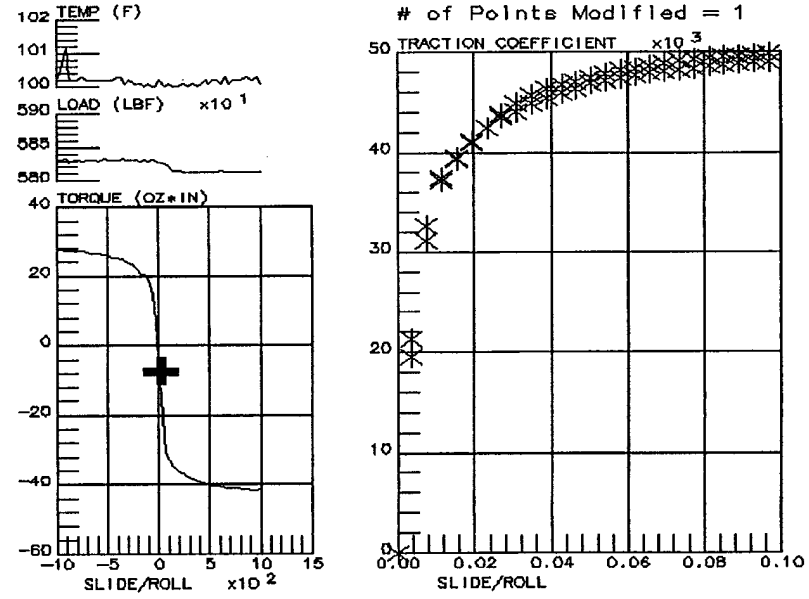
CC 89-180 Vistalube 7 #182
100F 13LBF 1260RPM 27 FILE: vist-08



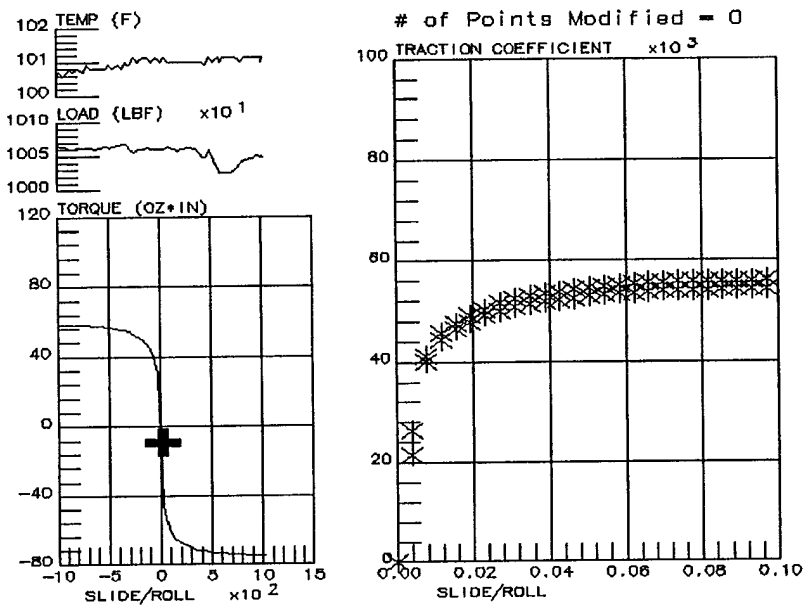
CC 89-180 Vistalube 7 #183
100F 30LBF 1260RPM 28 FILE: vist-08



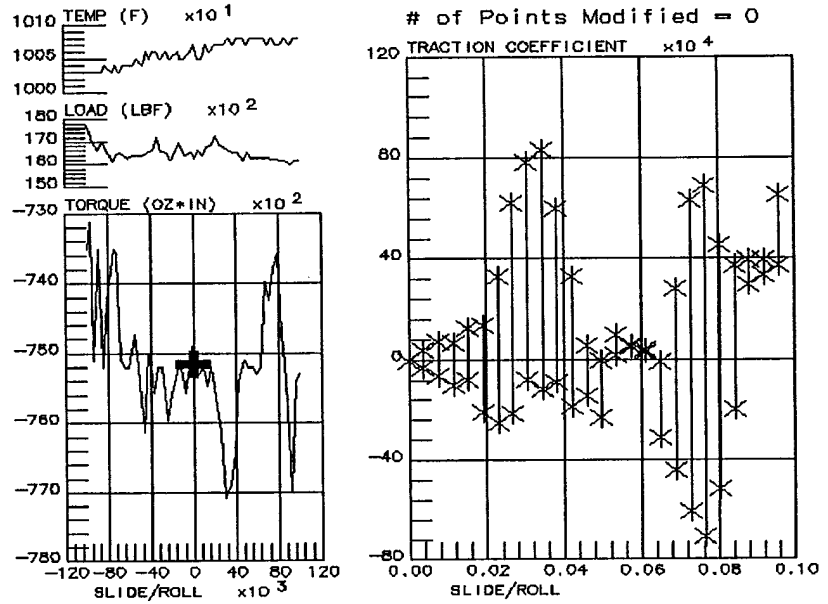
CC 89-180 Vistalube 7 #184
100F 58LBF 1260RPM 29 FILE: vist-08



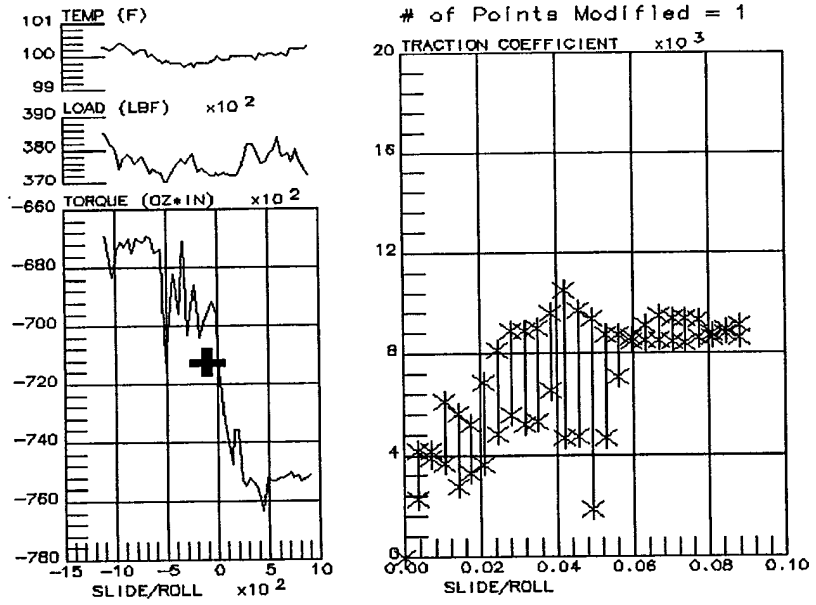
CC 89-180 Vistalube 7 #185
100F 100LBF 1260RPM 30 FILE: vist-08



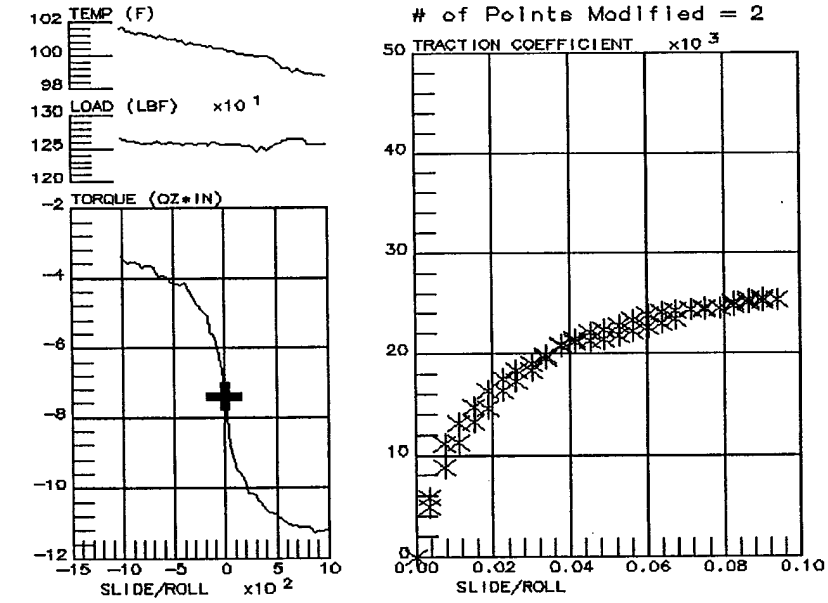
CC 89-180 Vistalube 7 #186
100F 2LBF 2559RPM 31 FILE: vist-08



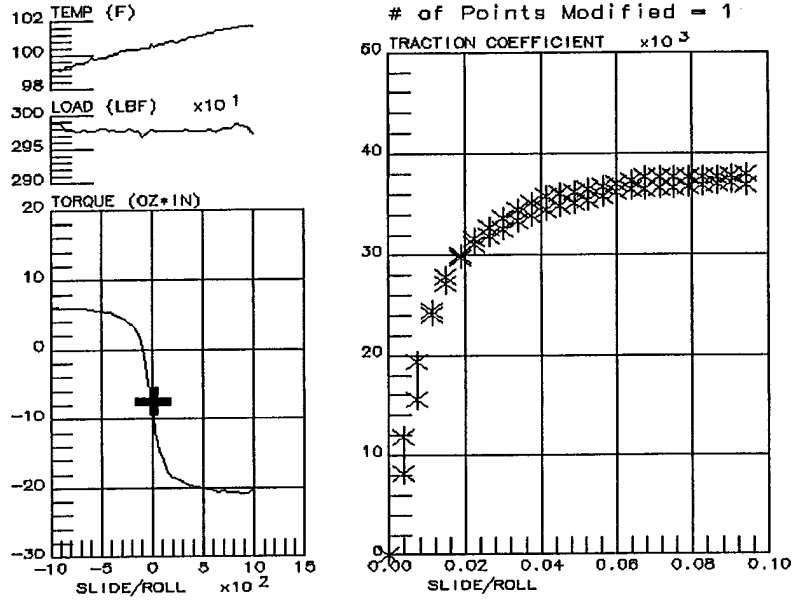
CC 89-180 Vistalube 7 #187
100F 4LBF 2559RPM 32 FILE: vist-08



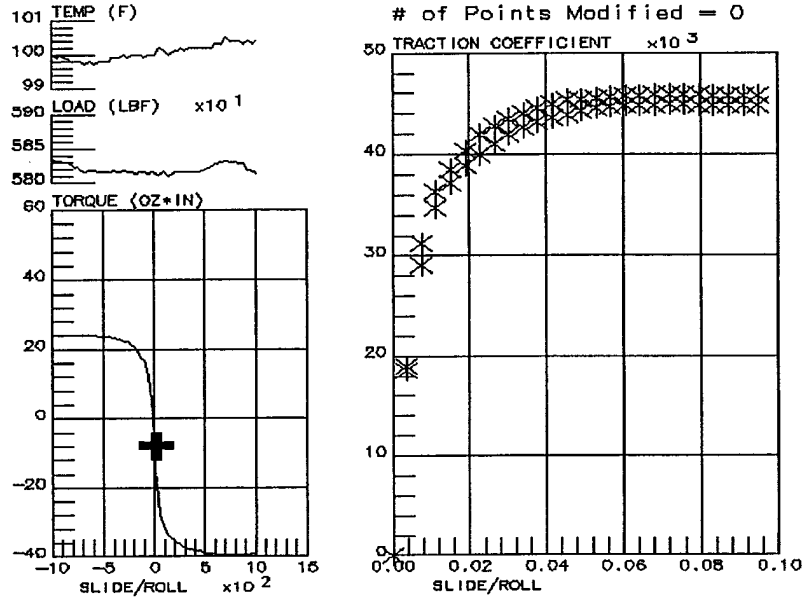
CC 89-180 Vistalube 7 #188
100F 13LBF 2559RPM 33 FILE: vist-08



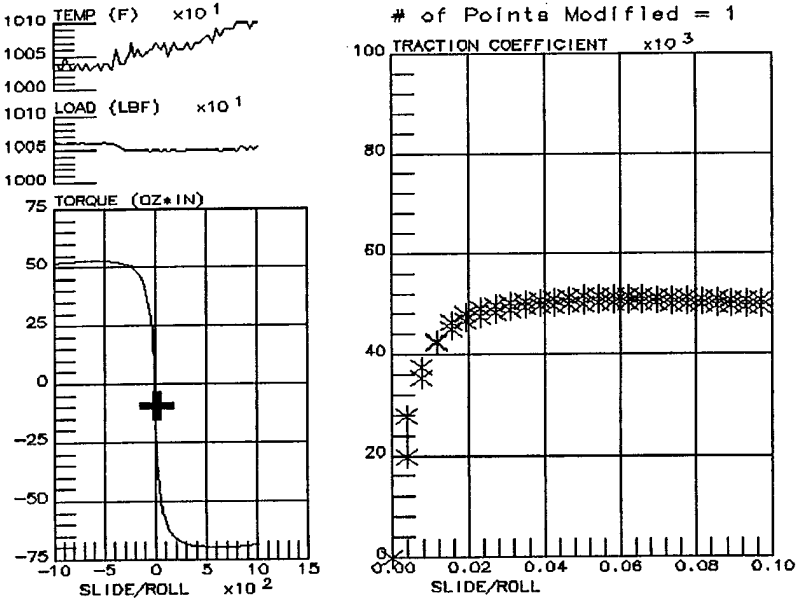
CC 89-180 Vistalube 7 #189
100F 30LBF 2559RPM 34 FILE: vist-08



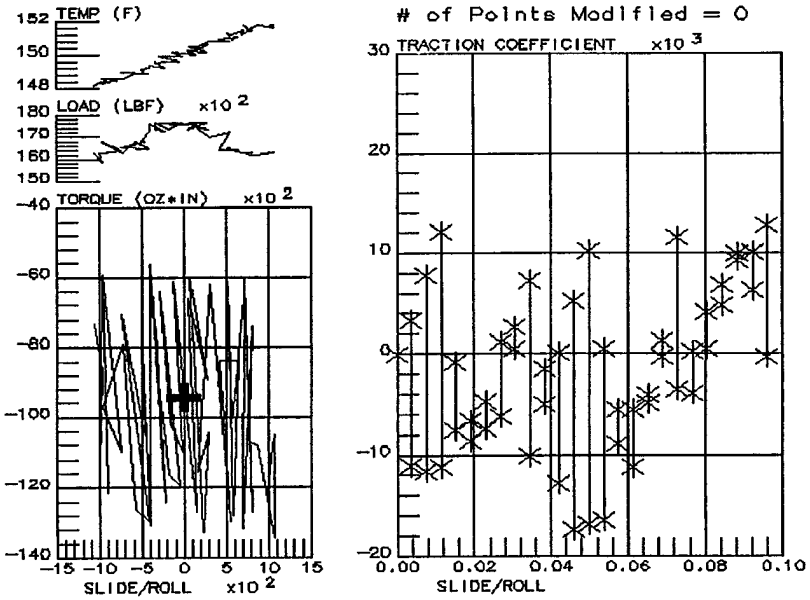
CC 89-180 Vistalube 7 #190
100F 58LBF 2559RPM 35 FILE: vist-08



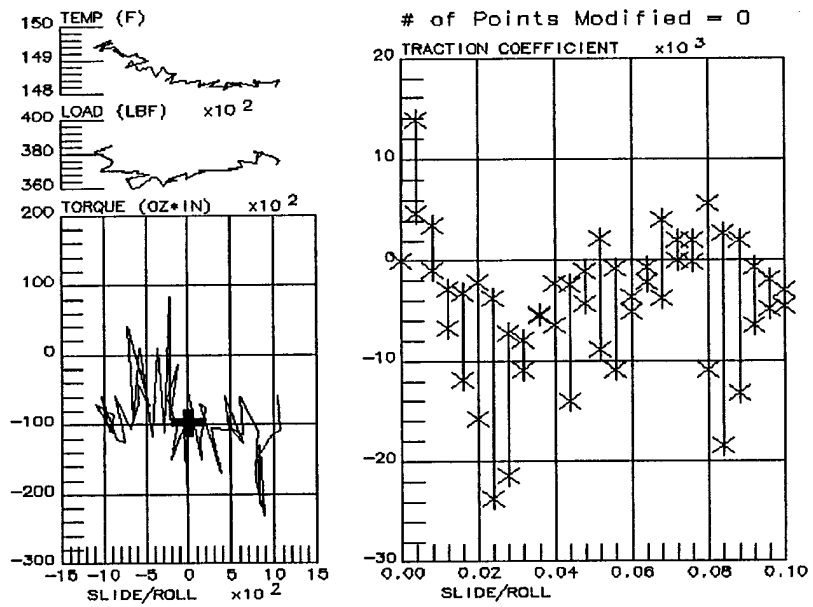
CC 89-180 Vistalube 7 #191
100F 100LBF 2559RPM 36 FILE: vist-08



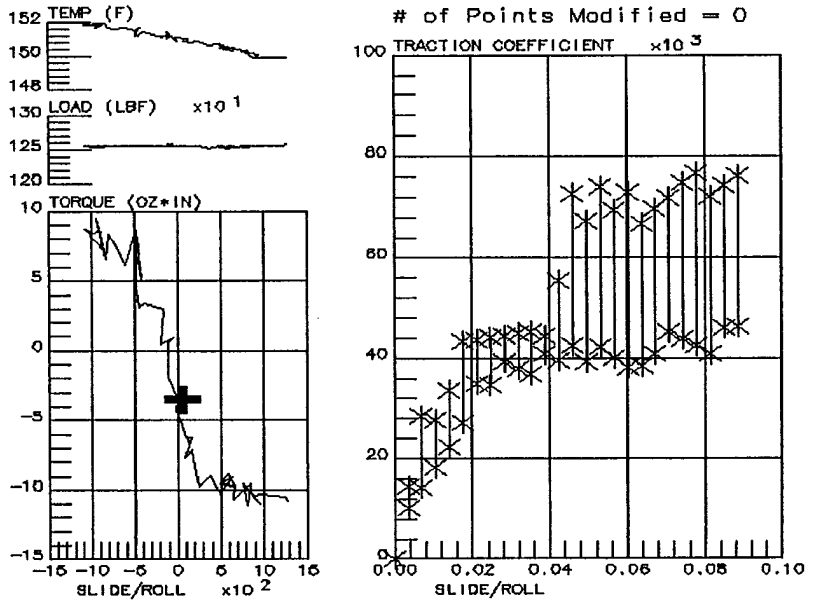
CC 89-180 Vistalube 7 #192
150F 2LBF 76RPM 1 FILE: vist-09



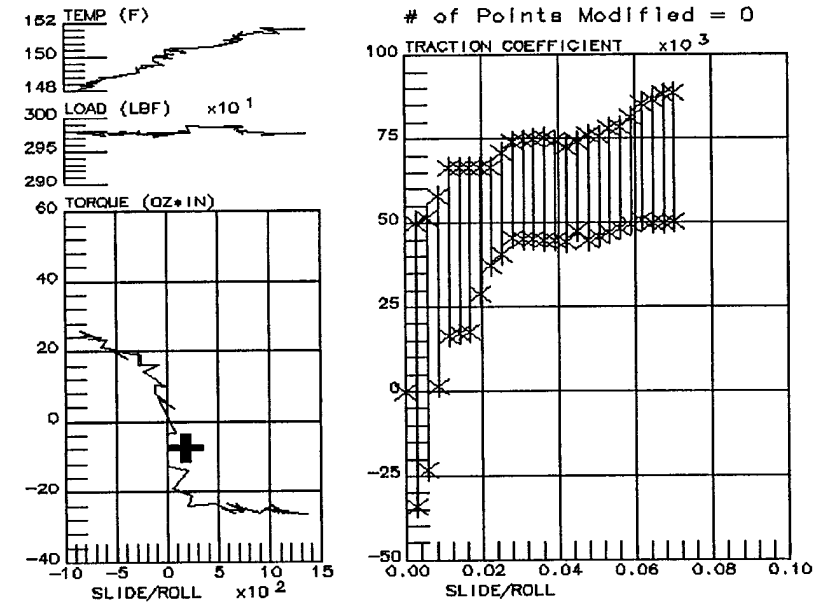
CC 89-180 Vistalube 7 #193
150F 4LBF 76RPM 2 FILE: vist-09



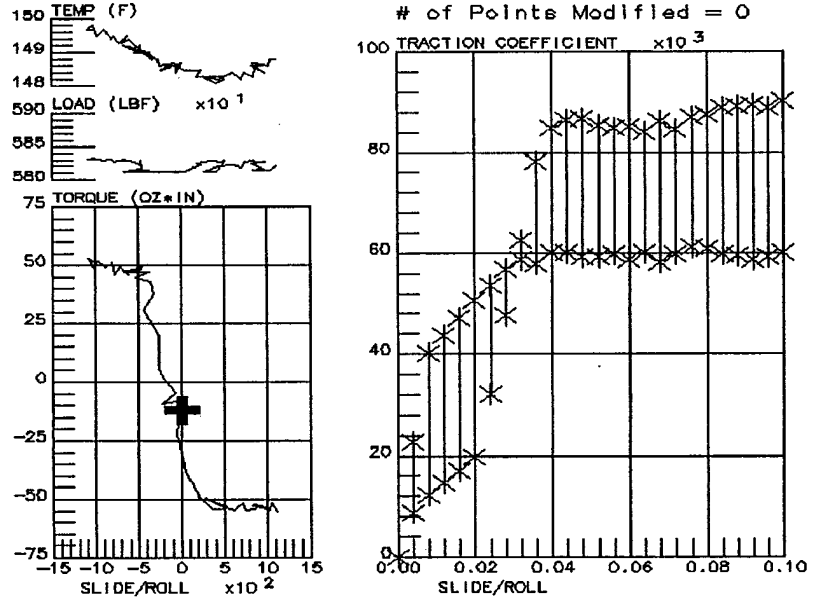
CC 89-180 Vistalube 7 #194
150F 13LBF 76RPM 3 FILE: vist-09



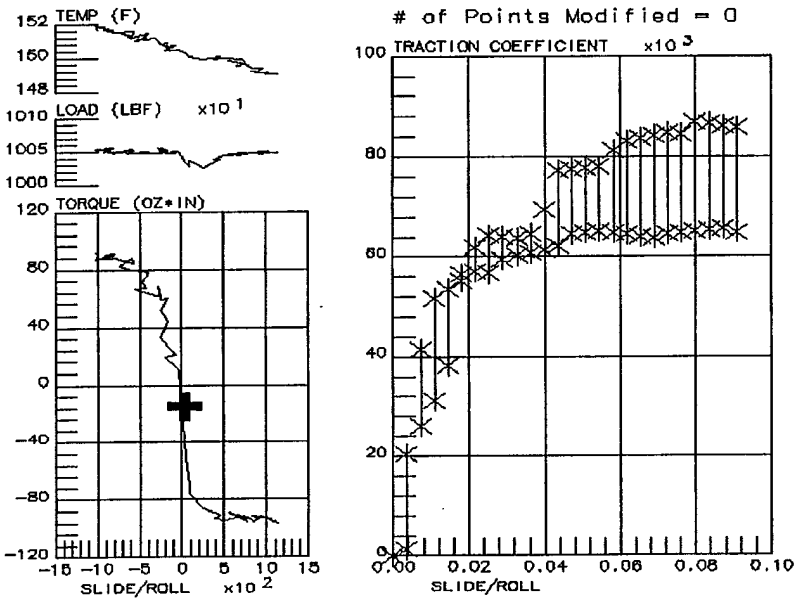
CC 89-180 Vistalube 7 #195
150F 30LBF 76RPM 4 FILE: vist-09



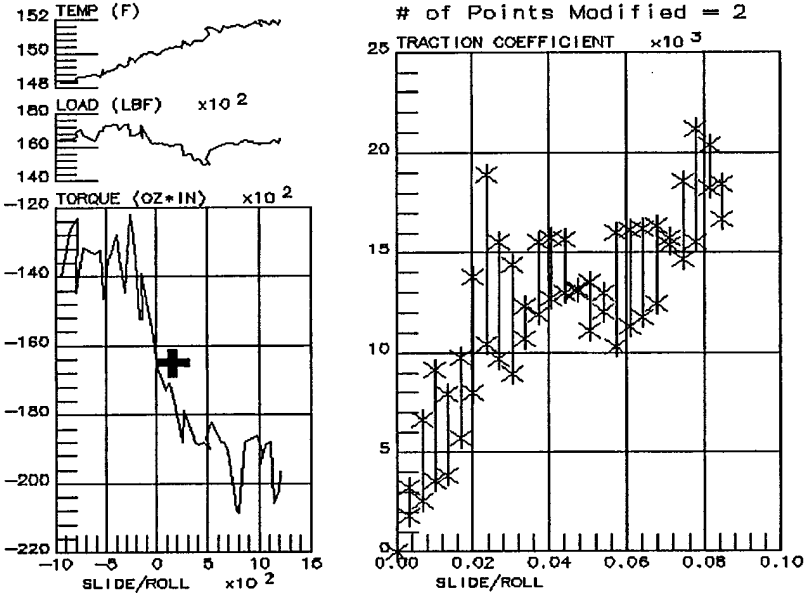
CC 89-180 Vistalube 7 #196
150F 58LBF 76RPM 5 FILE: vist-09



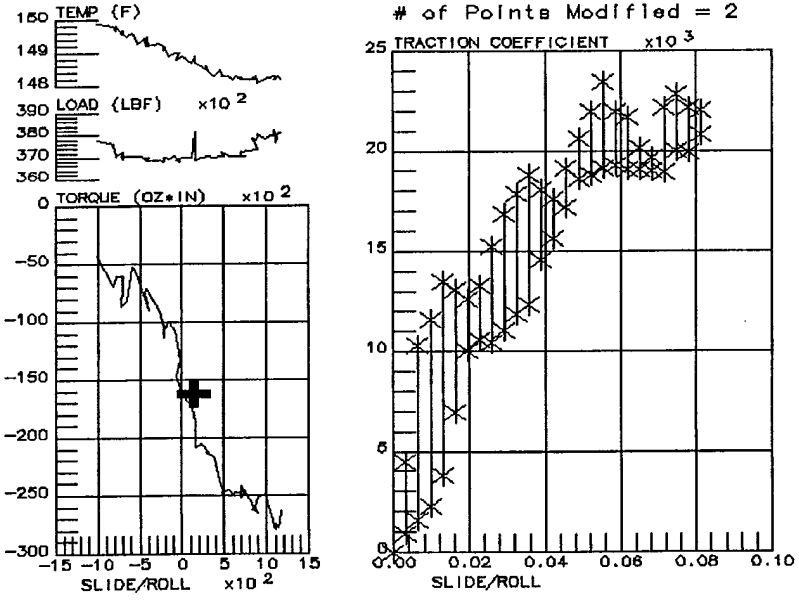
CC 89-180 Vistalube 7 #197
150F 100LBF 76RPM 6 FILE: vist-09



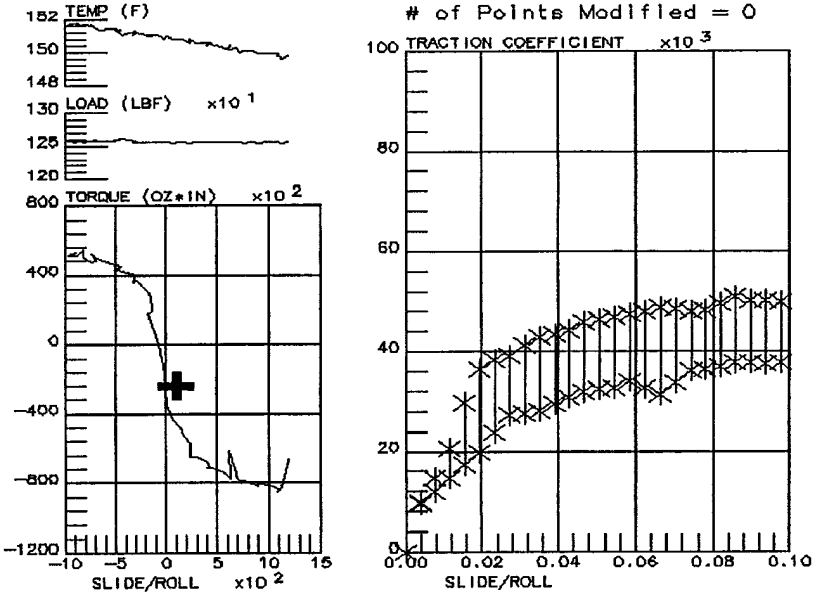
CC 89-180 Vistalube 7 #198
150F 2LBF 152RPM 7 FILE: vist-09



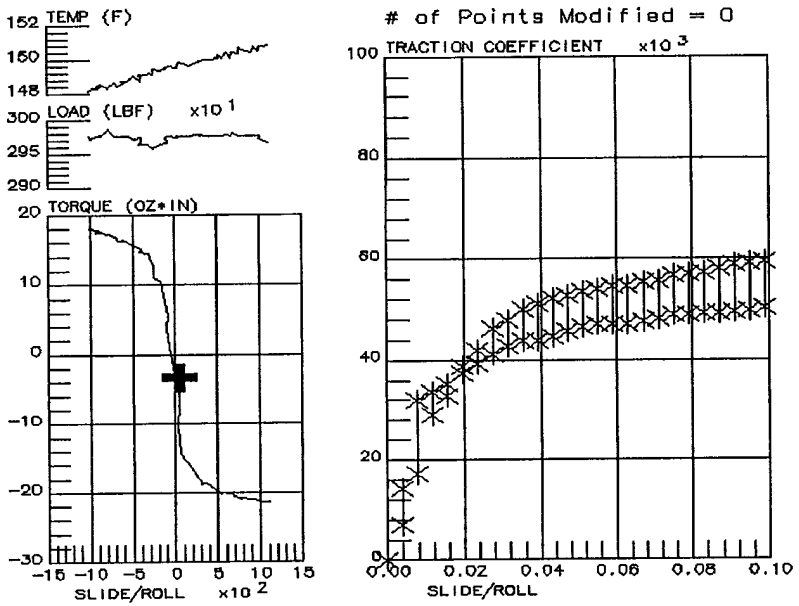
CC 89-180 Vistalube 7 #199
150F 4LBF 152RPM 8 FILE: vist-09



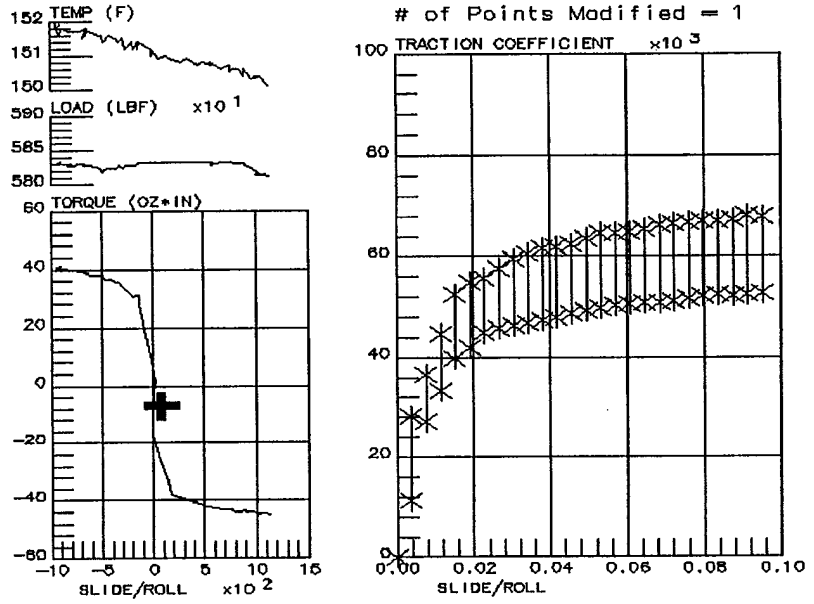
CC 89-180 Vistalube 7 #200
150F 13LBF 152RPM 9 FILE: vist-09



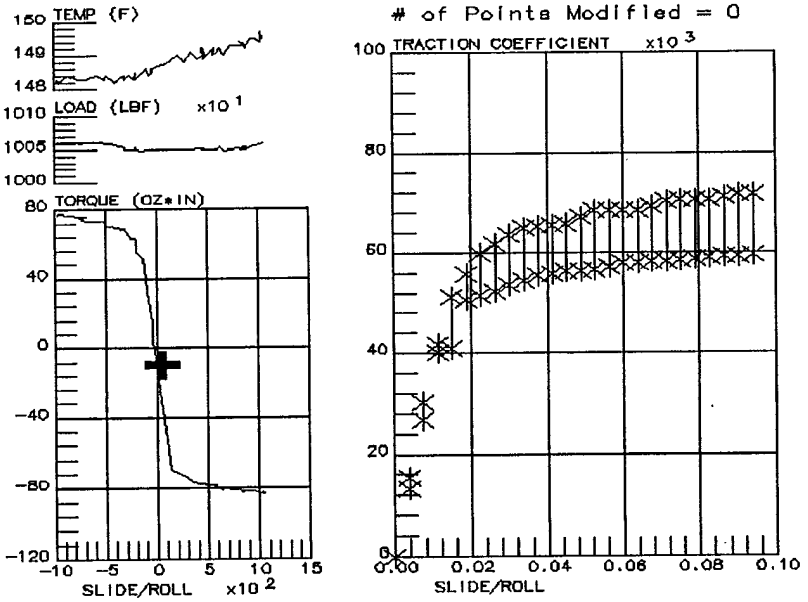
CC 89-180 Vistalube 7 #201
150F 30LBF 152RPM 10 FILE: vist-09



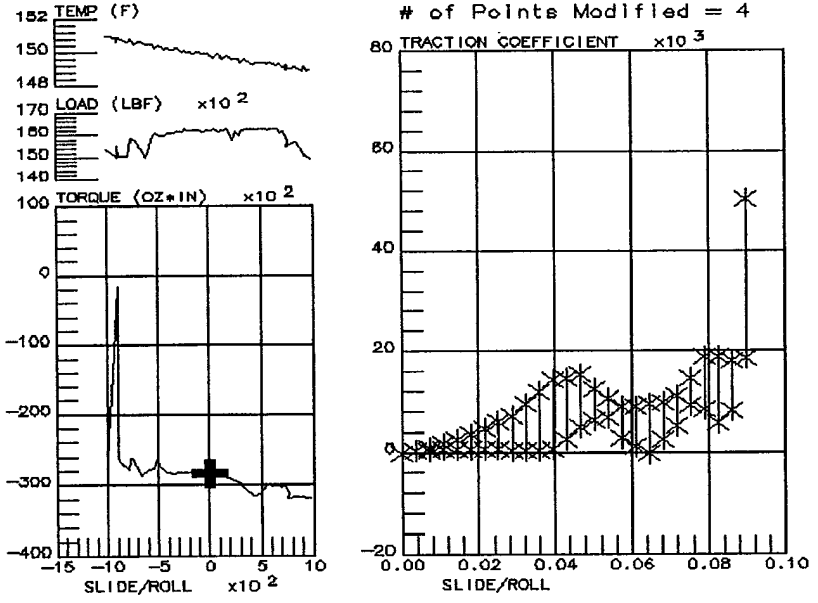
CC 89-180 Vistalube 7 #202
150F 58LBF 152RPM 11 FILE: vist-09



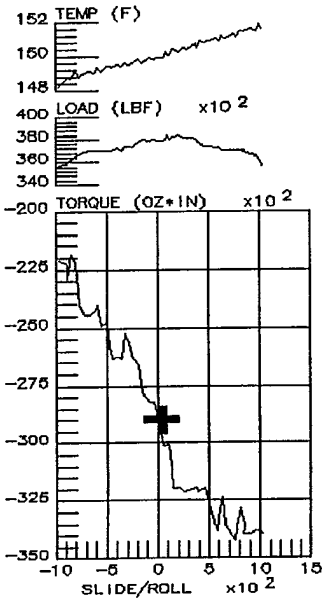
CC 89-180 Vistalube 7 #203
150F 100LBF 152RPM 12 FILE: vist-09

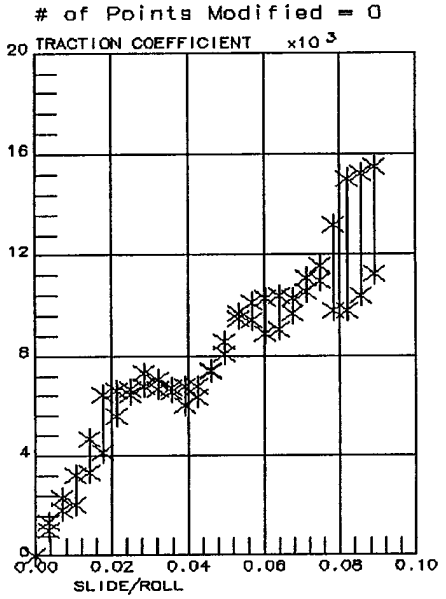


CC 89-180 Vistalube 7 #204
150F 2LBF 343RPM 13 FILE: vist-09

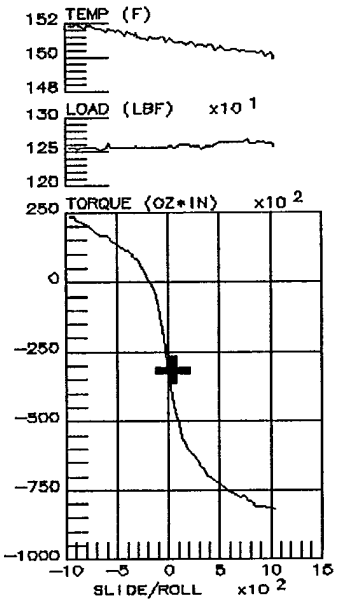


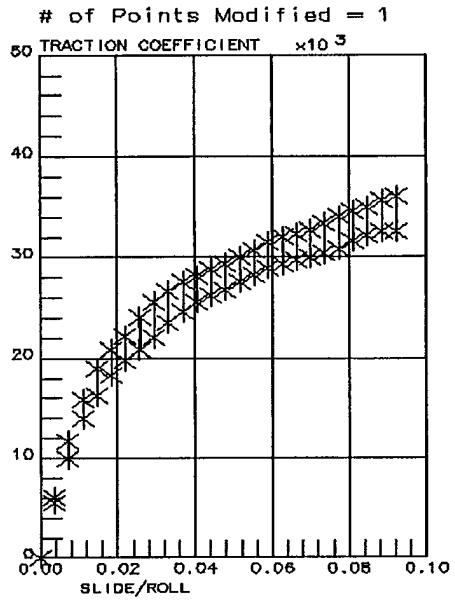
CC 89-180 Vistalube 7 #205
150F 4LBF 343RPM 14 FILE: vist-09



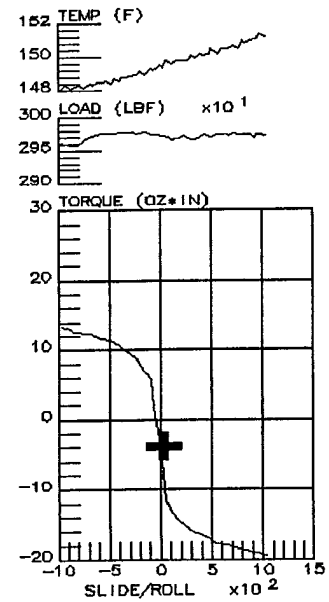


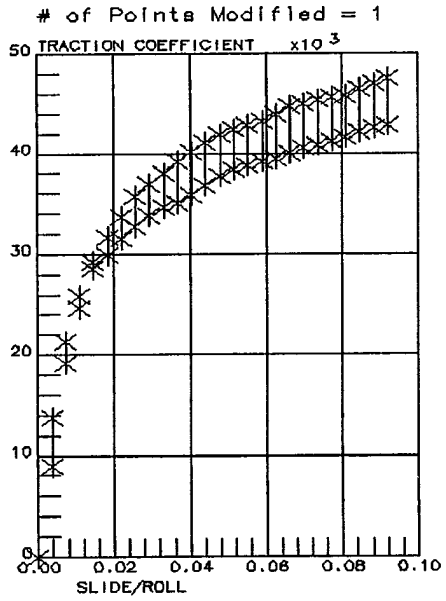
CC 89-180 Vistalube 7 #206
150F 13LBF 343RPM 15 FILE: vist-09



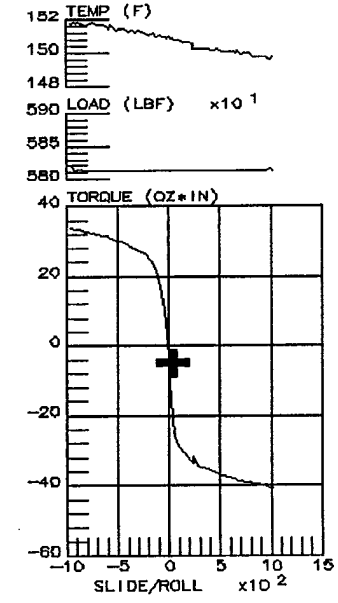


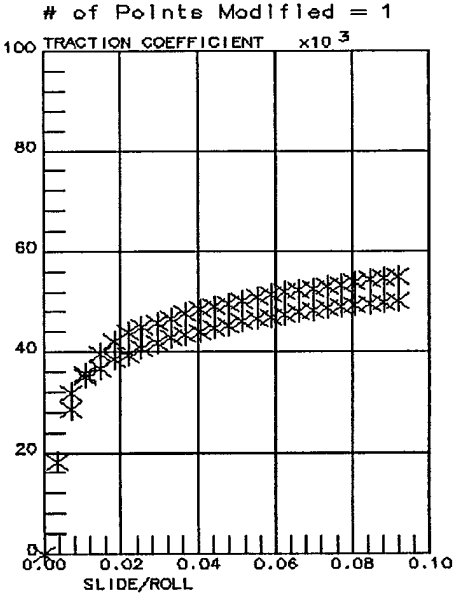
CC 89-180 Vistalube 7 #207
150F 30LBF 343RPM 16 FILE: vist-09



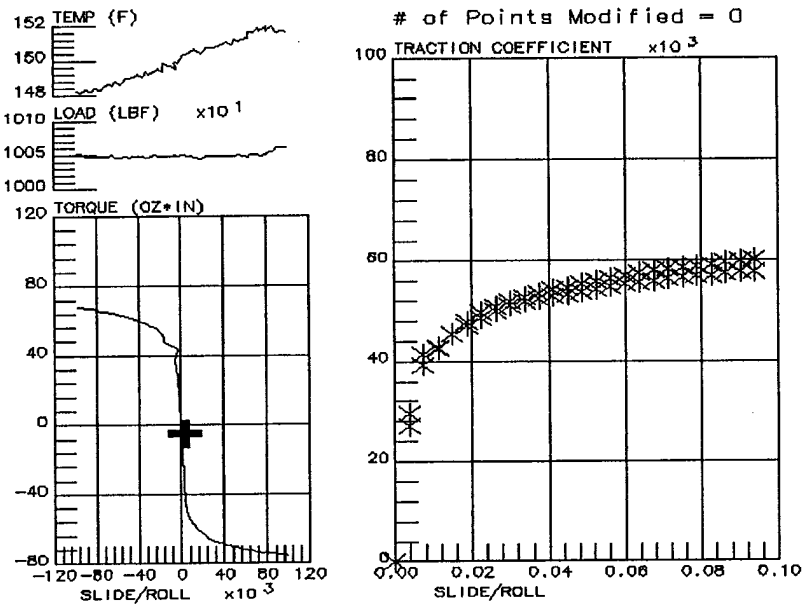


CC 89-180 Vistalube 7 #208
150F 58LBF 343RPM 17 FILE: vist-09

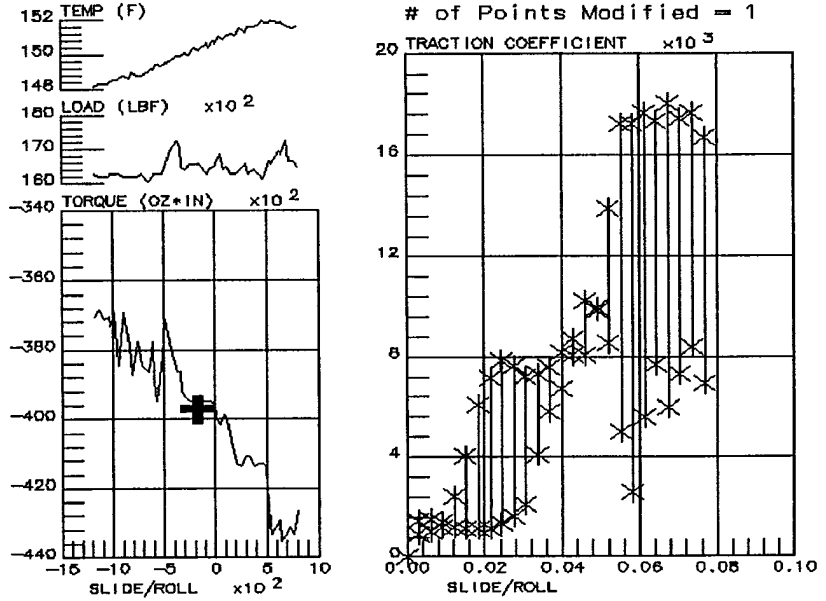




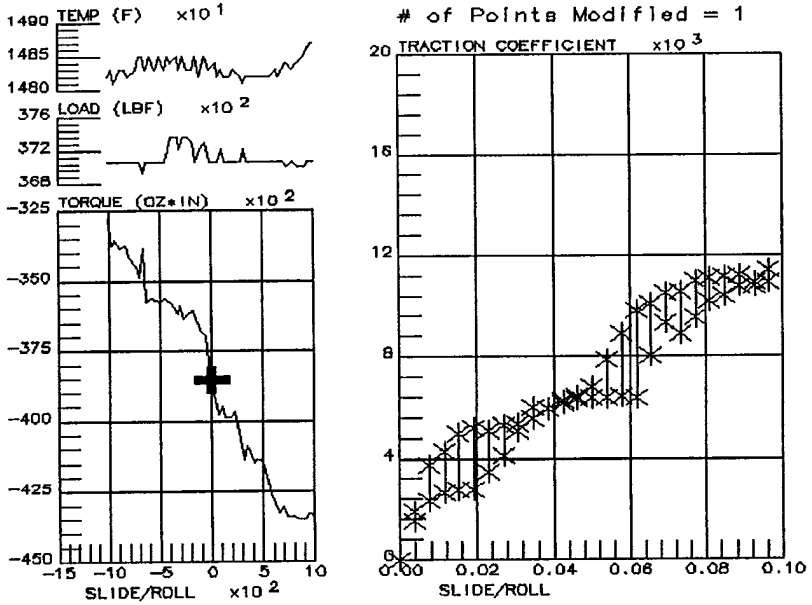
CC 89-180 Vistalube 7 #209
150F 100LBF 343RPM 18 FILE: vist-09



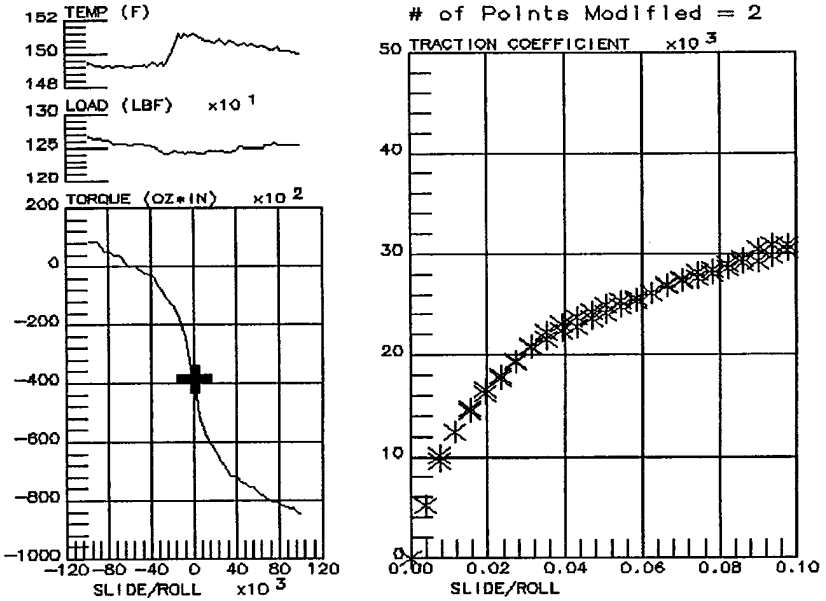
CC 89-180 Vistalube 7 #210
150F 2LBF 650RPM 19 FILE: vist-09



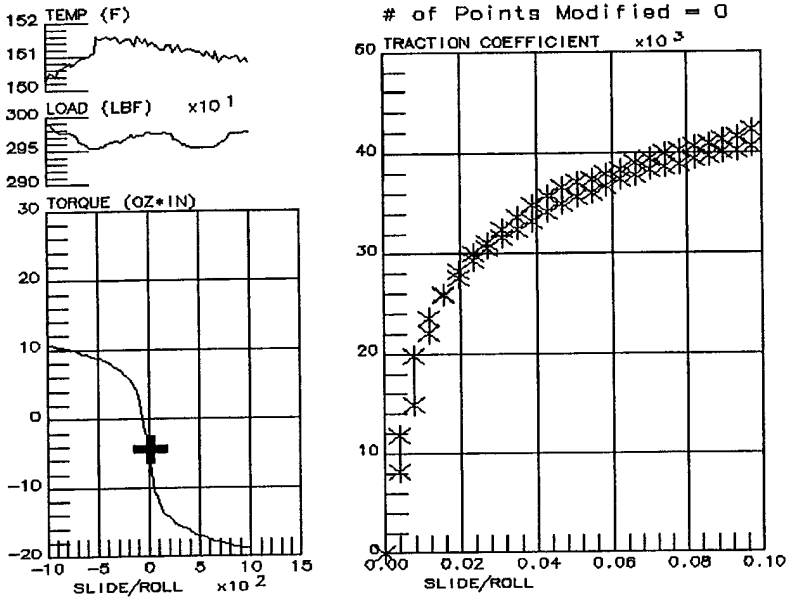
CC 89-180 Vistalube 7 #211
150F 4LBF 650RPM 20 FILE: vist-09



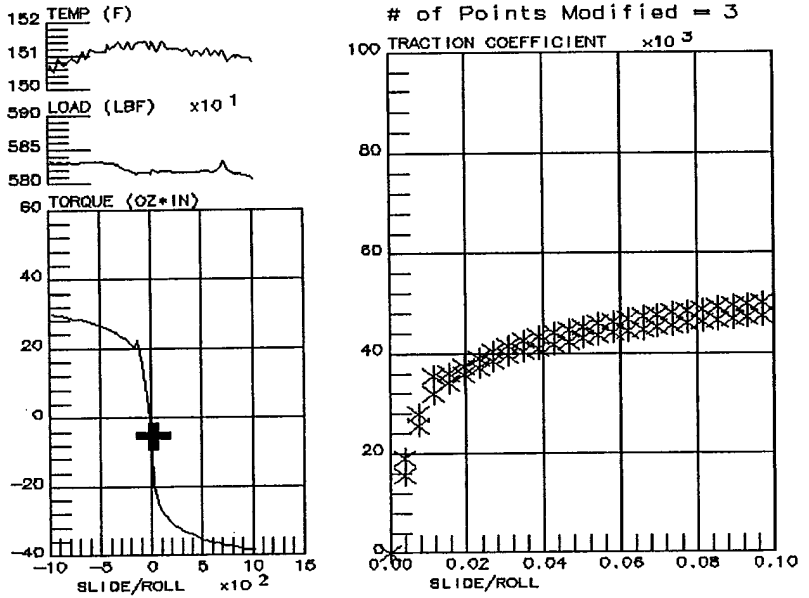
CC 89-180 Vistalube 7 #212
150F 13LBF 650RPM 21 FILE: vist-09



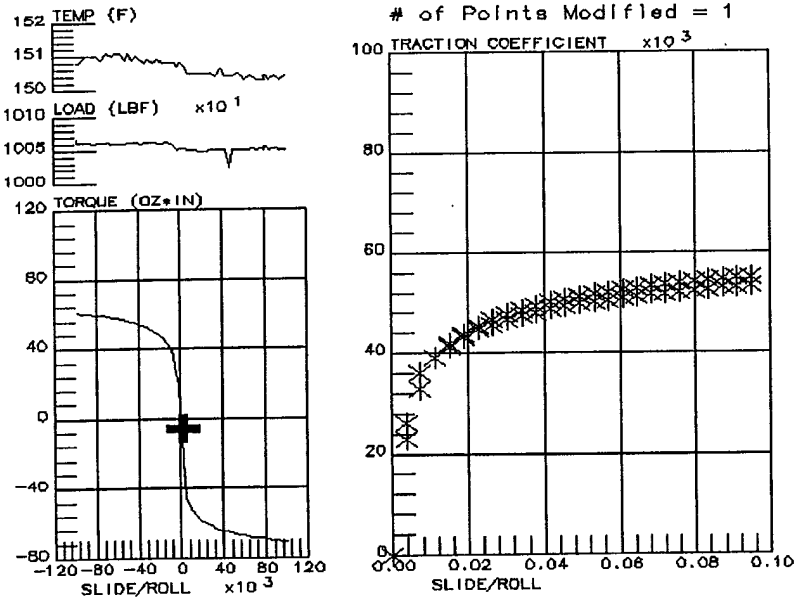
CC 89-180 Vistalube 7 #213
150F 30LBF 650RPM 22 FILE: vist-09



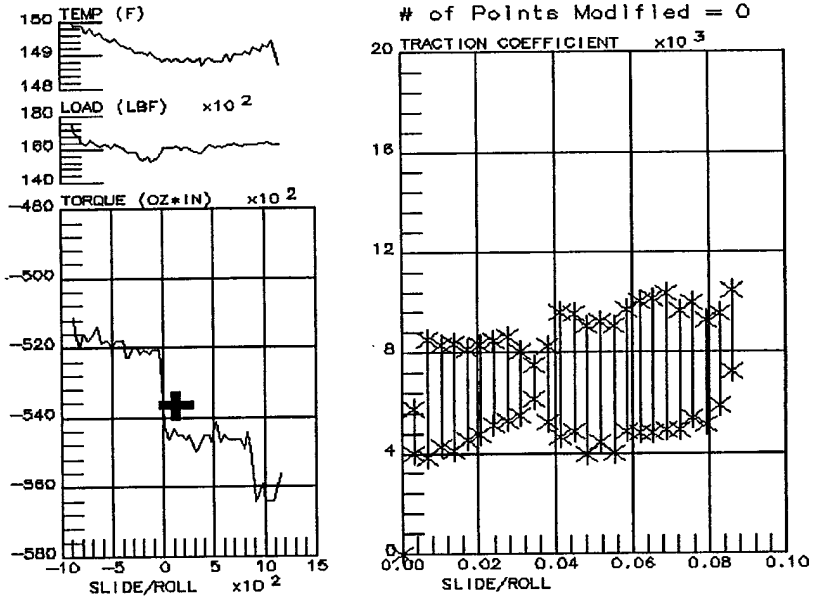
CC 89-180 Vistalube 7 #214
150F 58LBF 650RPM 23 FILE: vist-09



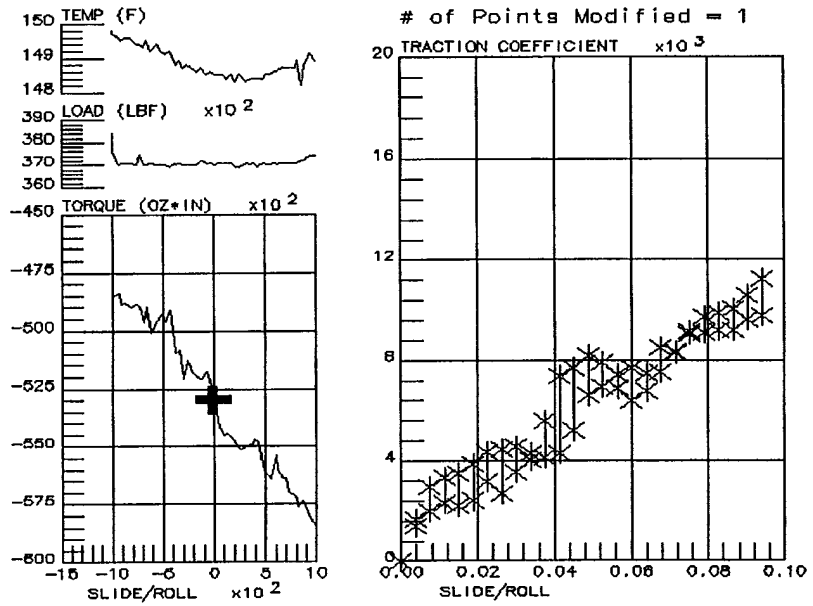
CC 89-180 Vistalube 7 #215
150F 100LBF 650RPM 24 FILE: vist-09



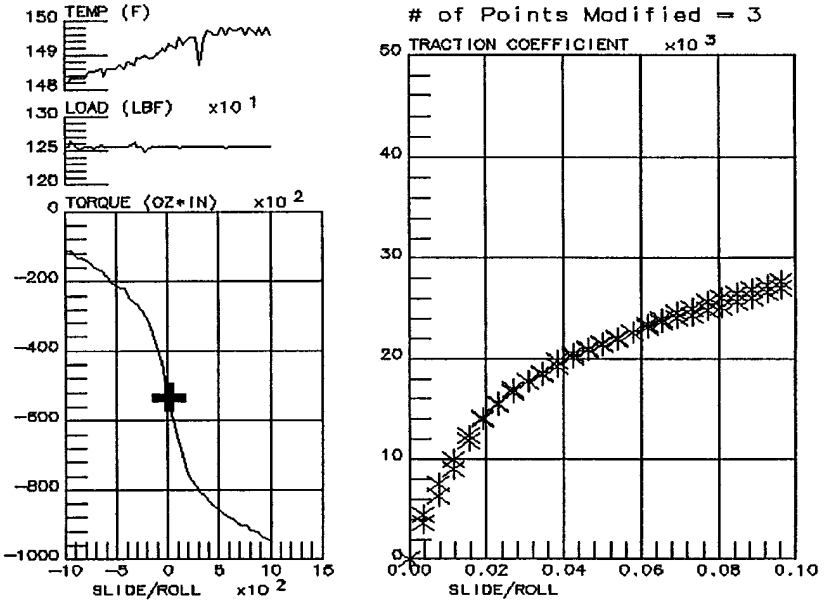
CC 89-180 Vistalube 7 #216
150F 2LBF 1260RPM 25 FILE: vist-09



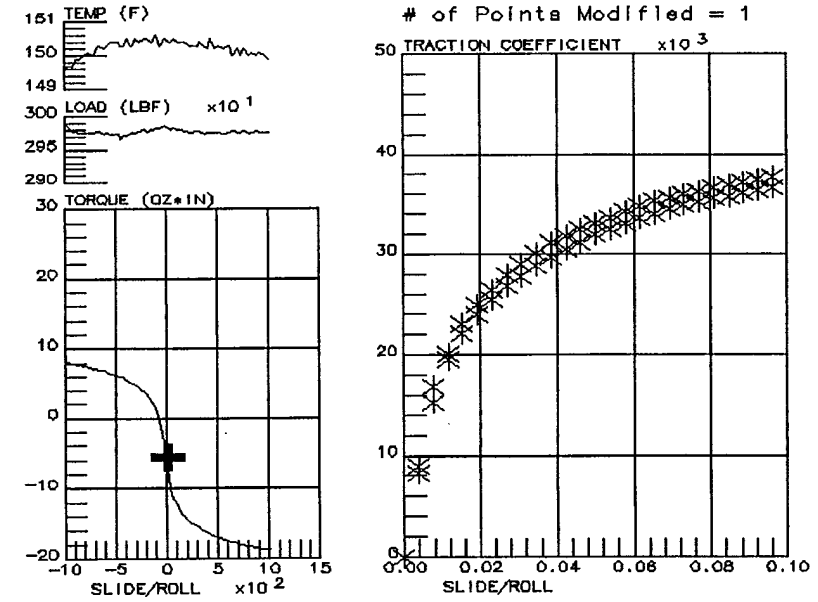
CC 89-180 Vistalube 7 #217
150F 4LBF 1260RPM 26 FILE: vist-09



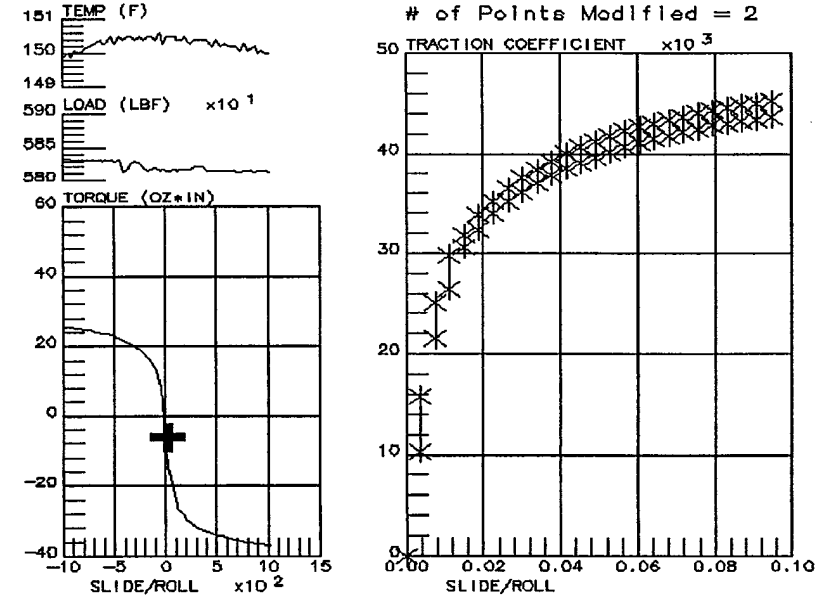
CC 89-180 Vistalube 7 #218
150F 13LBF 1260RPM 27 FILE: vist-09



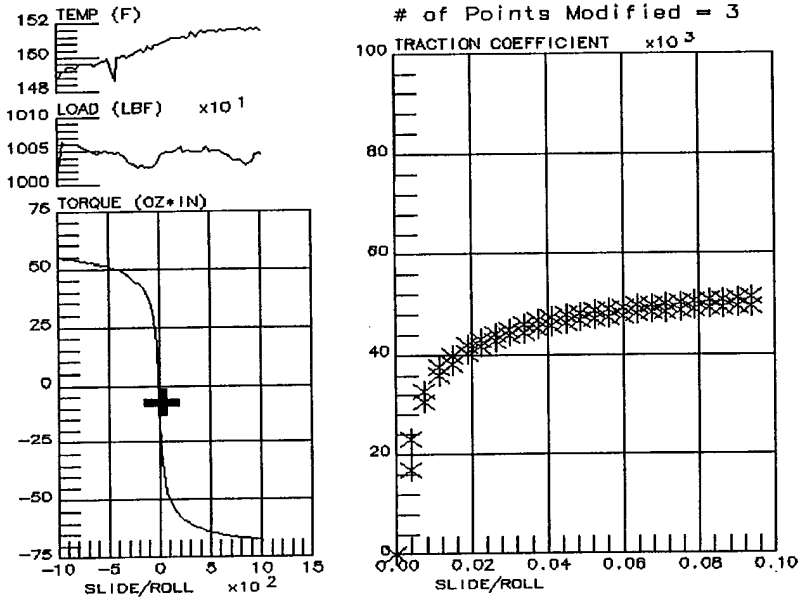
CC 89-180 Vistalube 7 #219
150F 30LBF 1260RPM 28 FILE: vist-09



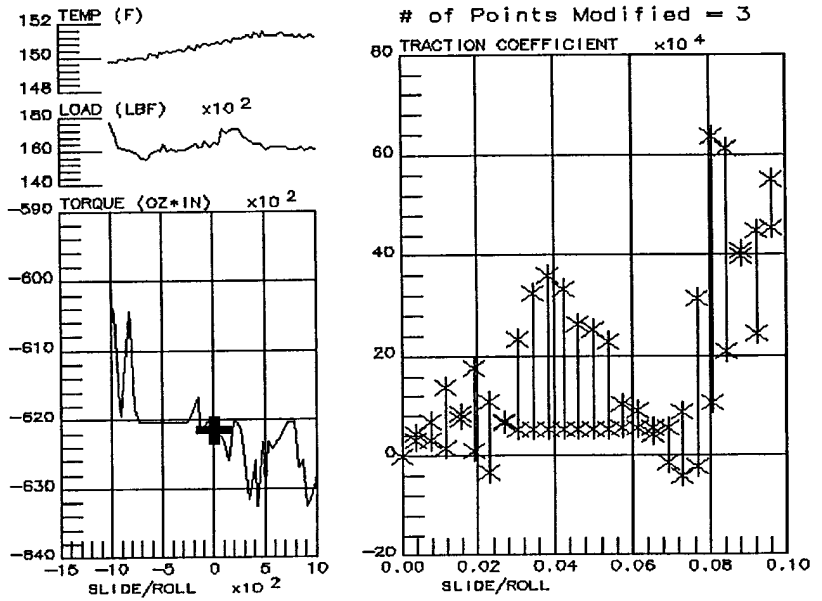
CC 89-180 Vistalube 7 #220
150F 58LBF 1260RPM 29 FILE: vist-09



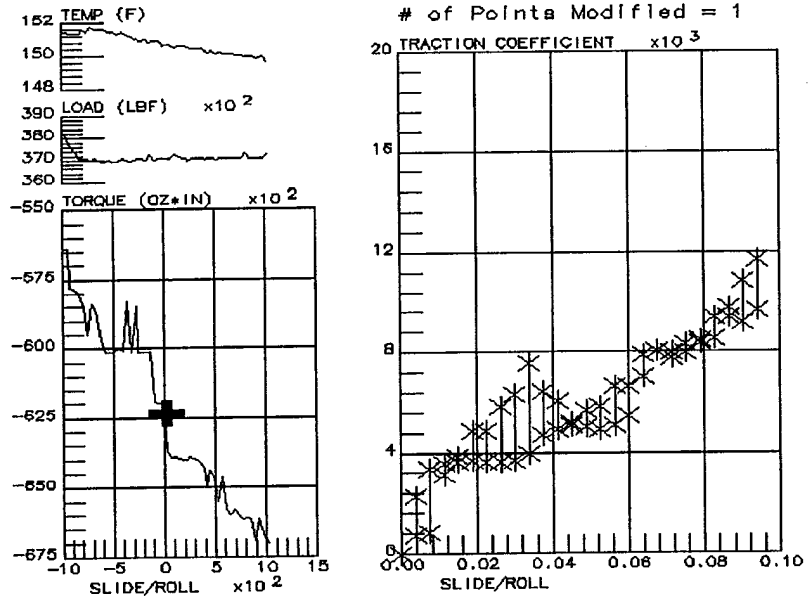
CC 89-180 Vistalube 7 #221
150F 100LBF 1260RPM 30 FILE: vist-09



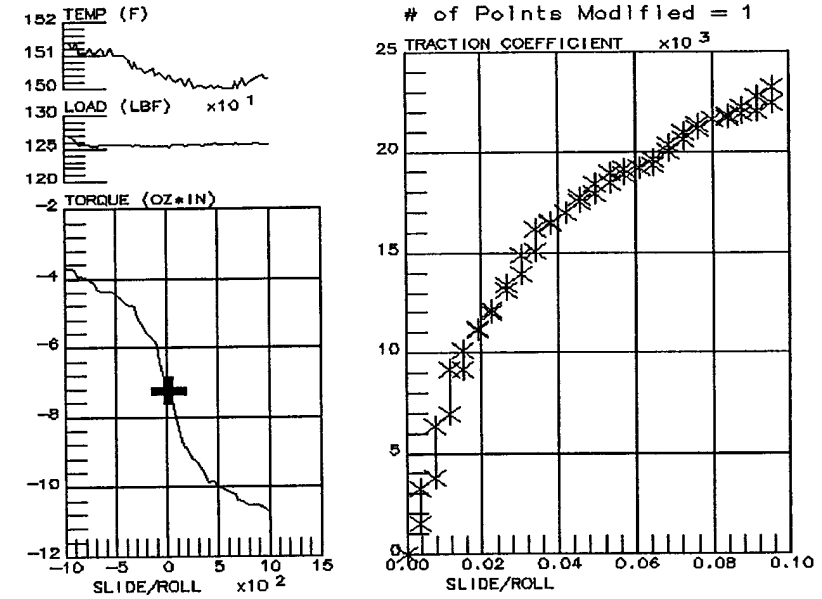
CC 89-180 Vistalube 7 #222
150F 2LBF 2559RPM 31 FILE: vist-09



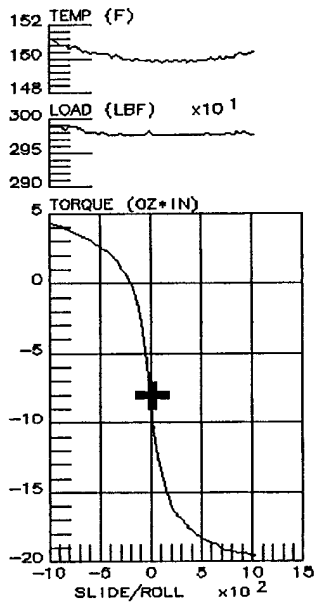
CC 89-180 Vistalube 7 #223
150F 4LBF 2559RPM 32 FILE: vist-09



CC 89-180 Vistalube 7 #224
150F 13LBF 2559RPM 33 FILE: vist-09



CC 89-180 Vistalube 7 #225
150F 30LBF 2559RPM 34 FILE: vist-09



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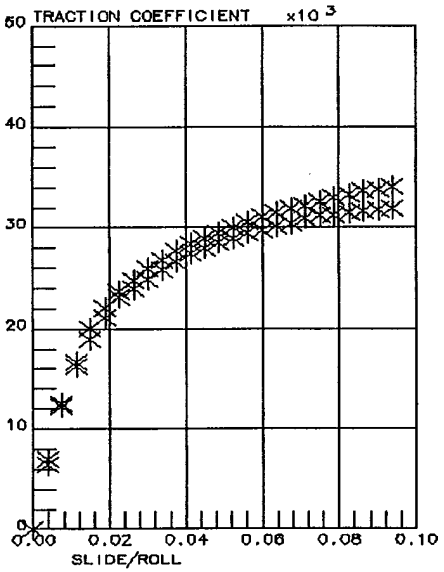
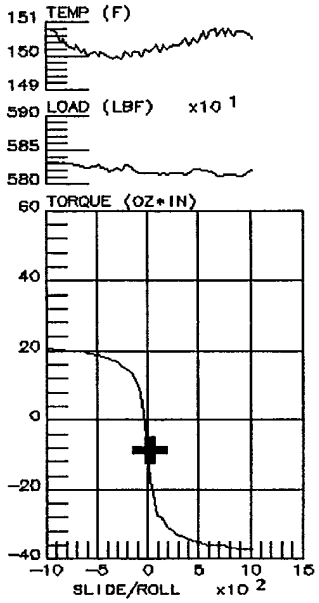


CC 89-180 Vistalube 7 #226
150F 58LBF 2559RPM 35 FILE: vist-09



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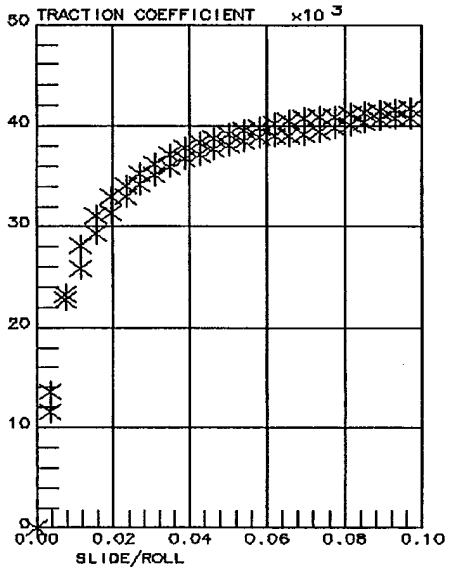
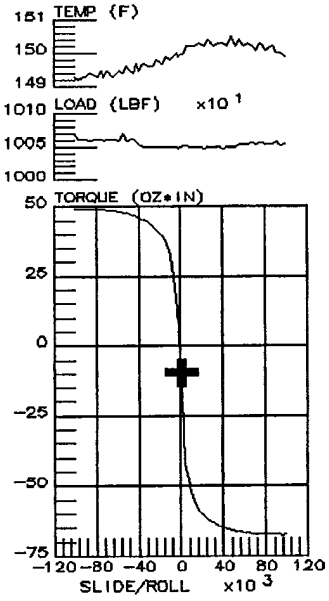


CC 89-180 Vistalube 7 #227
150F 100LBF 2559RPM 36 FILE: vist-09



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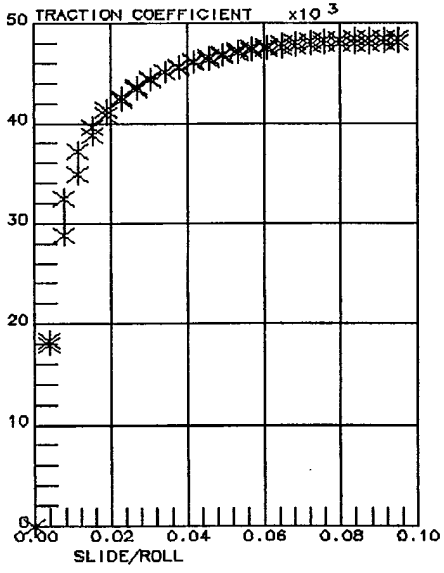
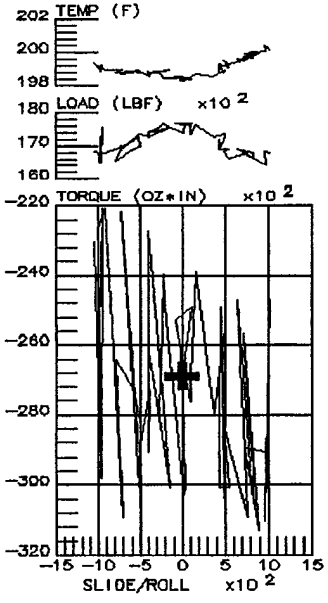


CC 89-180 Vistalube 7 #228
200F 2LBF 76RPM 1 FILE: vist-10



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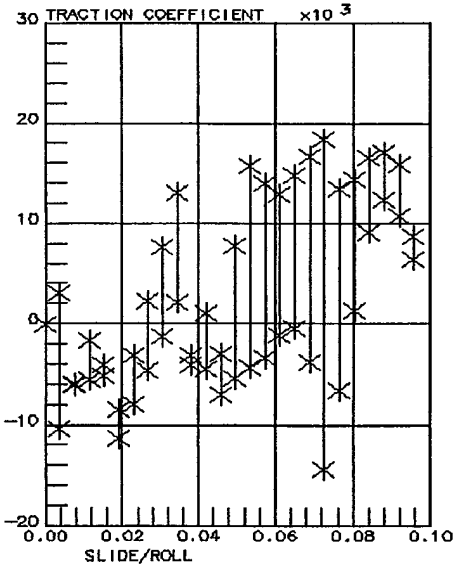
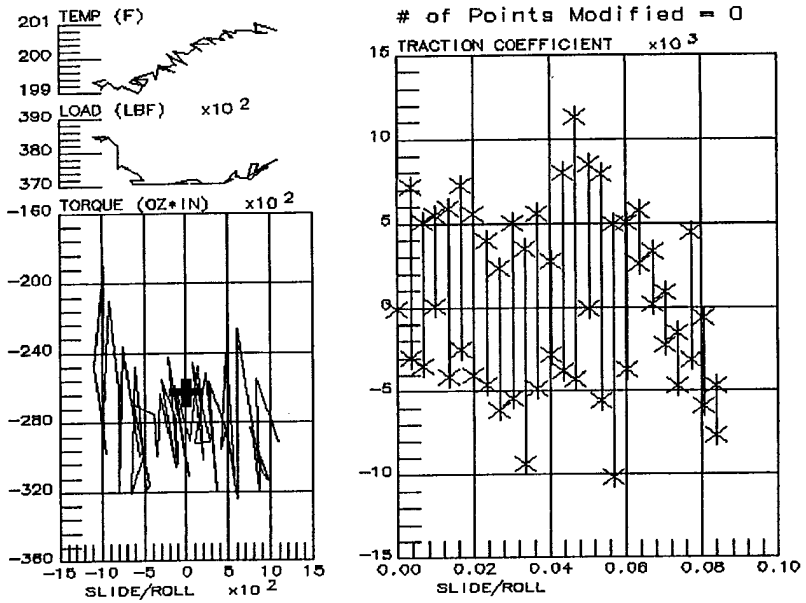
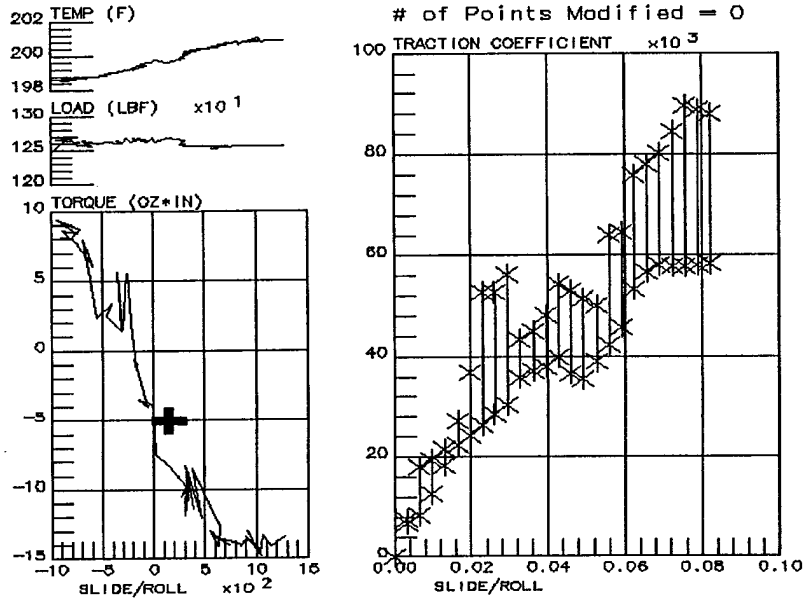


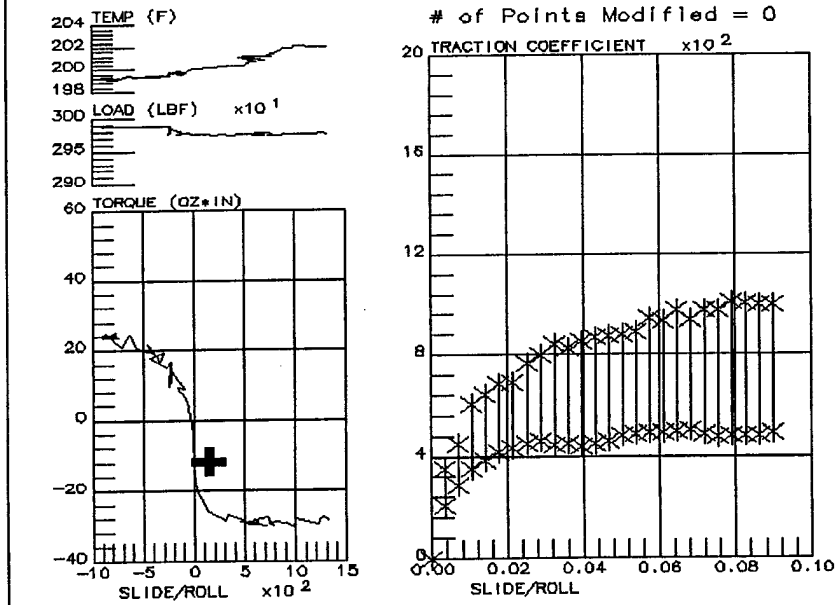
CC 89-180 Vistalube 7 #229
200F 4LBF 76RPM 2 FILE: vist-10



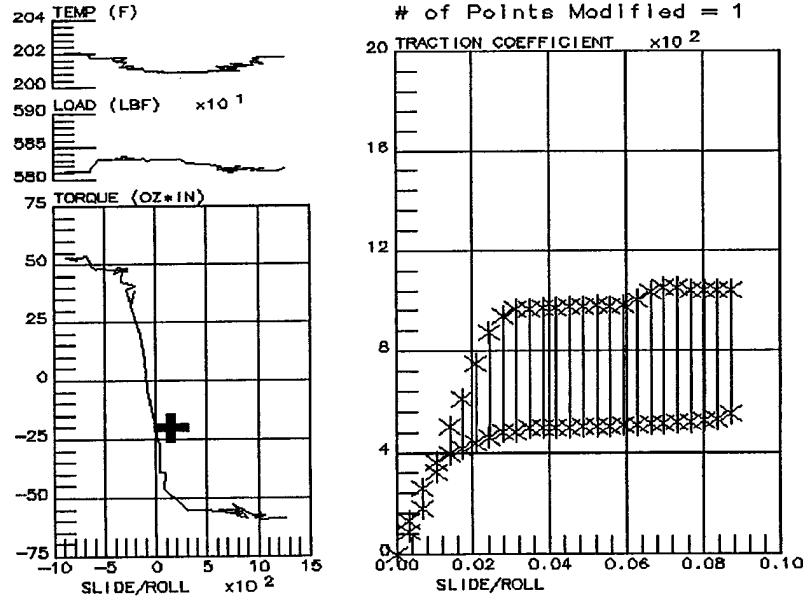
CC 89-180 Vistalube 7 #230
200F 13LBF 76RPM 3 FILE: vist-10



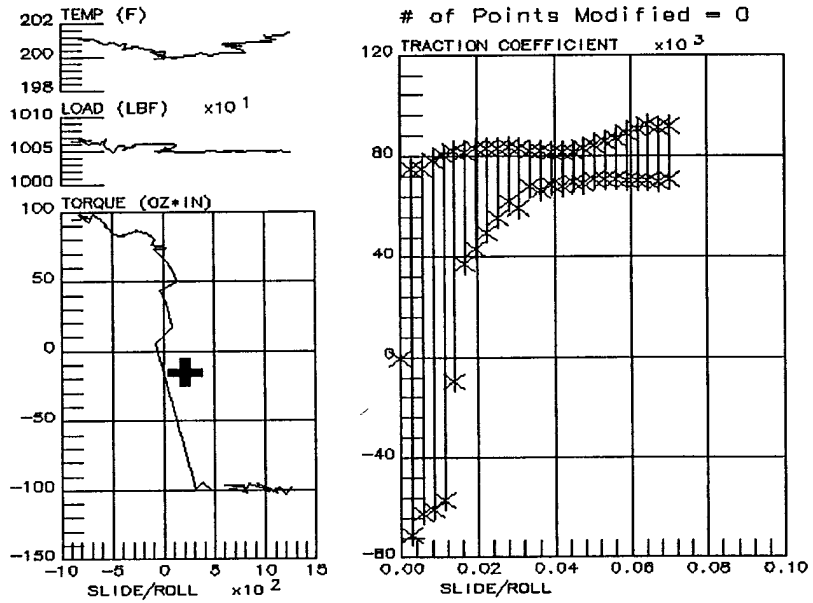
CC 89-180 Vistalube 7 #231
200F 30LBF 76RPM 4 FILE: vist-10



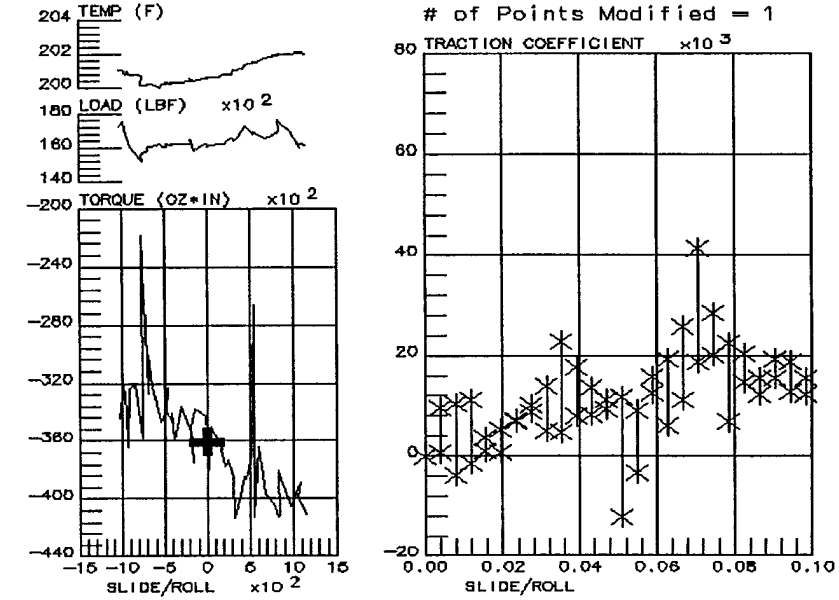
CC 89-180 Vistalube 7 #232
200F 58LBF 76RPM 5 FILE: vist-10



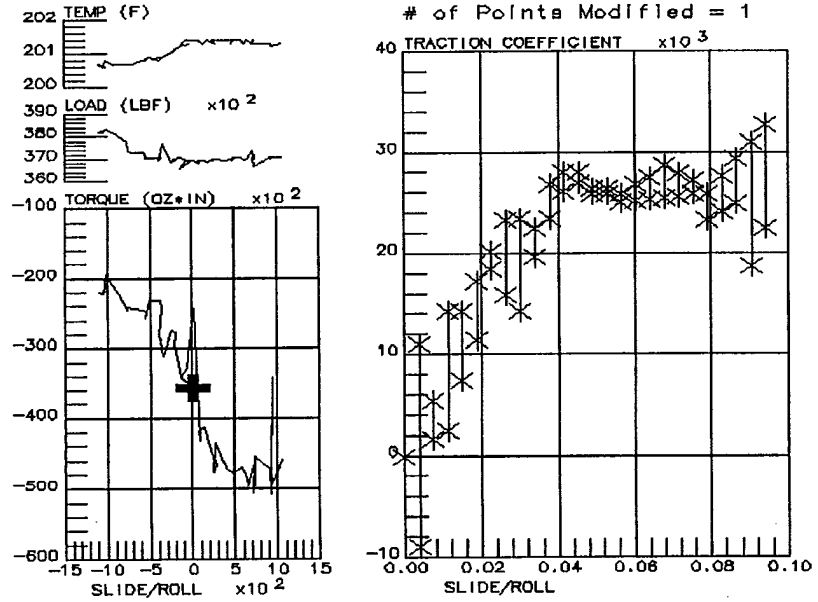
CC 89-180 Vistalube 7 #233
200F 100LBF 76RPM 6 FILE: vist-10



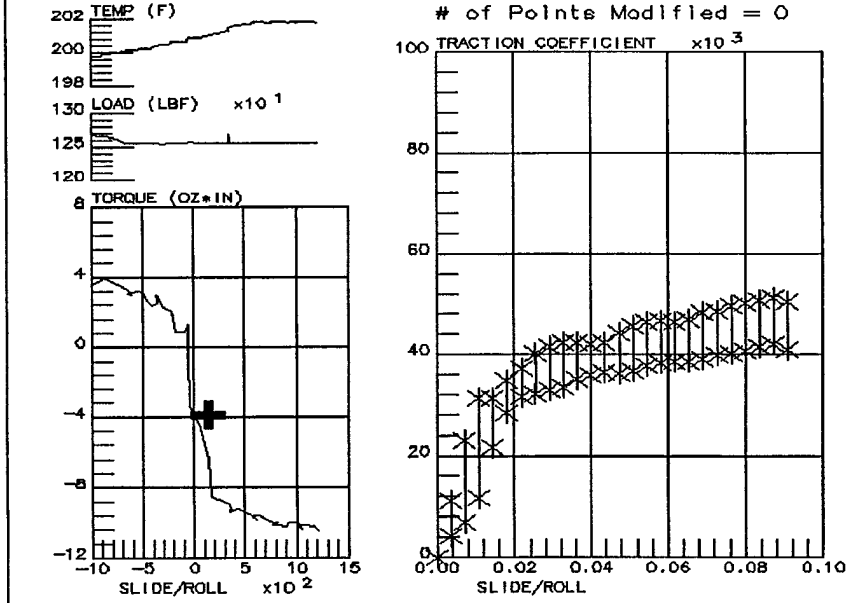
CC 89-180 Vistalube 7 #234
200F 2LBF 152RPM 7 FILE: vist-10



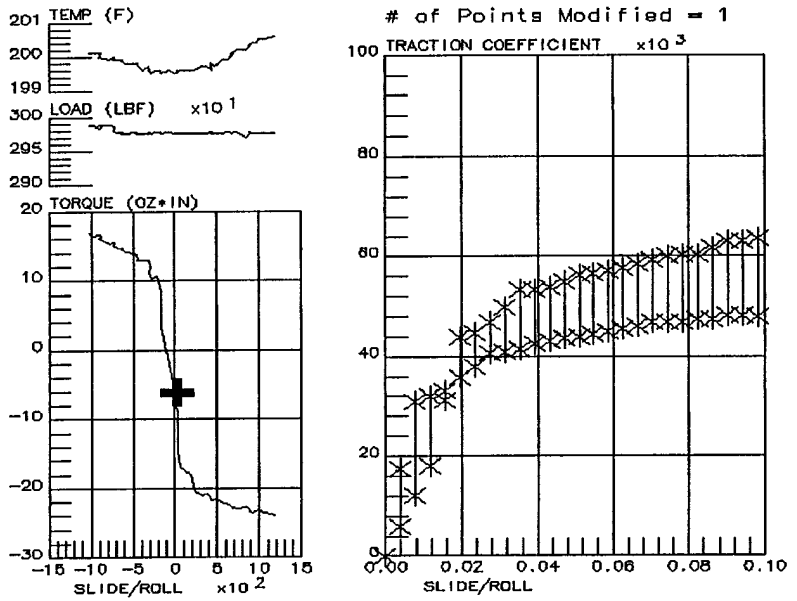
CC 89-180 Vistalube 7 #235
200F 4LBF 152RPM 8 FILE: vist-10



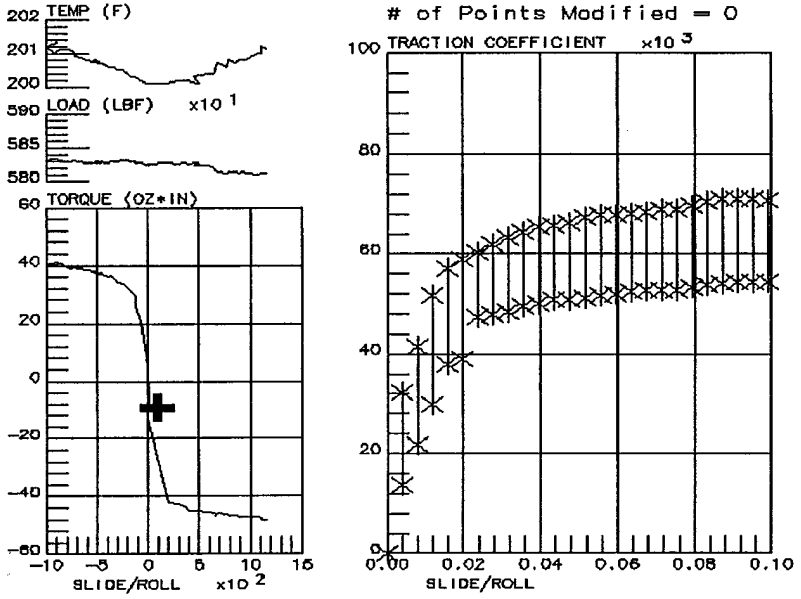
CC 89-180 Vistalube 7 #236
200F 13LBF 152RPM 9 FILE: vist-10



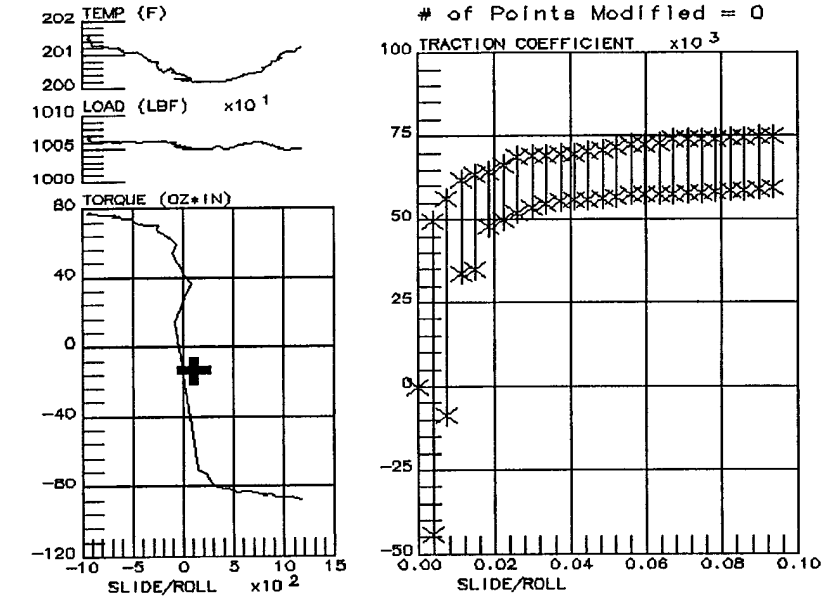
CC 89-180 Vistalube 7 #237
200F 30LBF 152RPM 10 FILE: vist-10



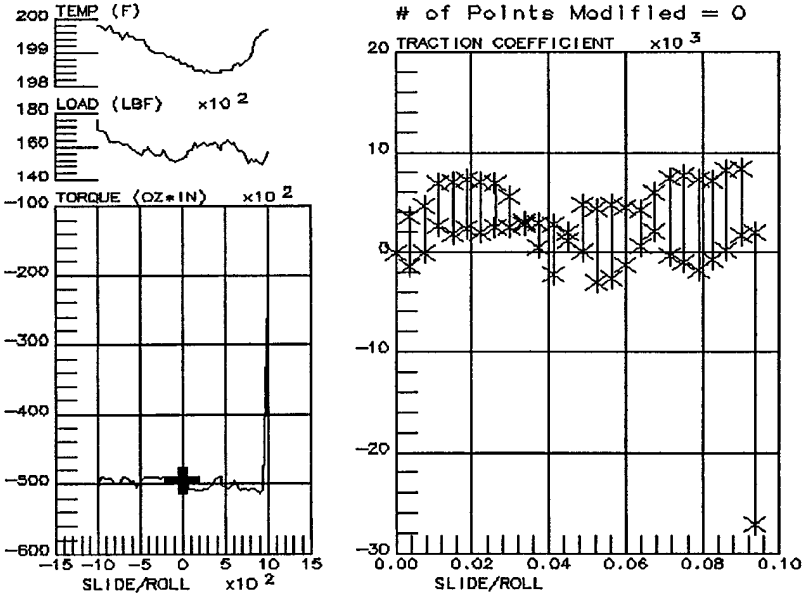
CC 89-180 Vistalube 7 #238
200F 58LBF 152RPM 11 FILE: vist-10



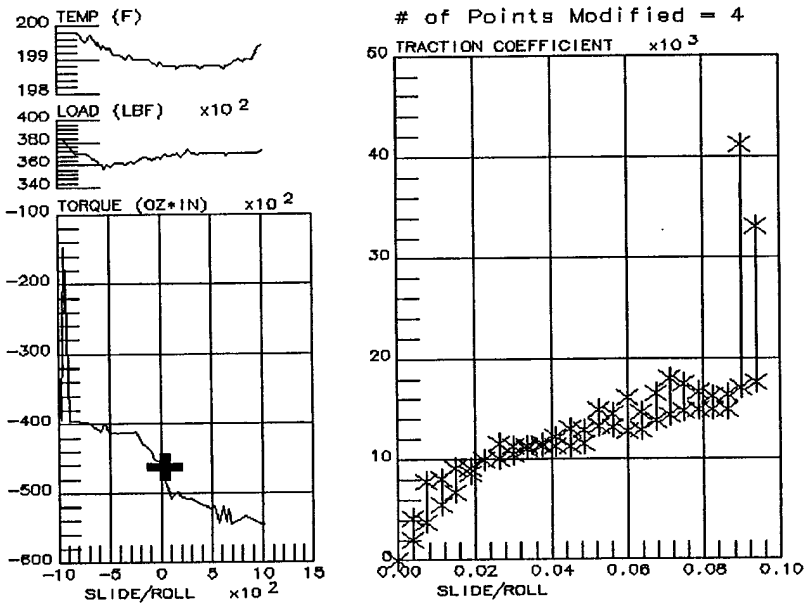
CC 89-180 Vistalube 7 #239
200F 100LBF 152RPM 12 FILE: vist-10



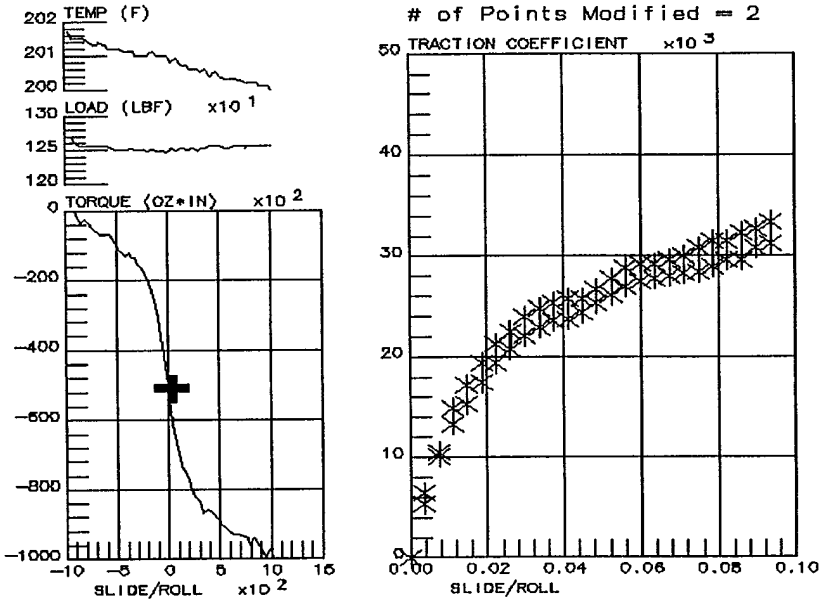
CC 89-180 Vistalube 7 #240
200F 2LBF 343RPM 13 FILE: vist-10



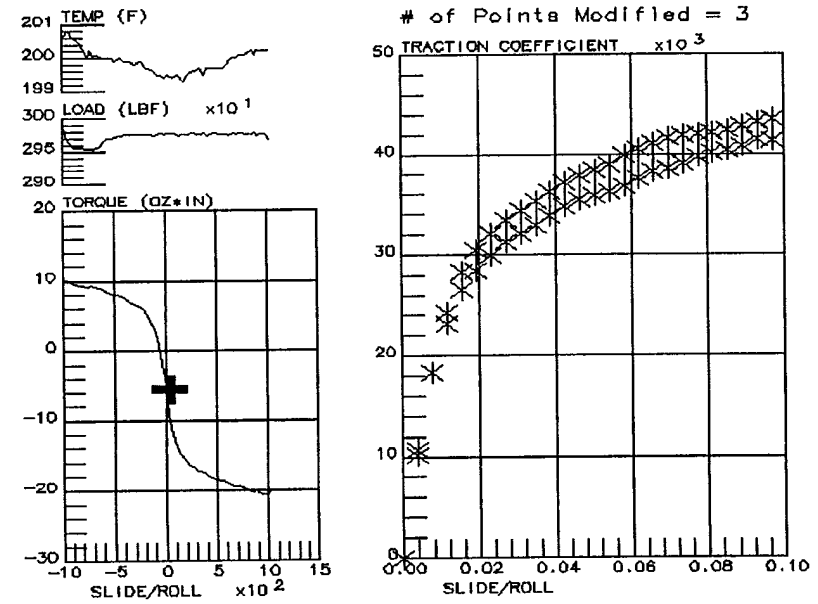
CC 89-180 Vistalube 7 #241
200F 4LBF 343RPM 14 FILE: vist-10



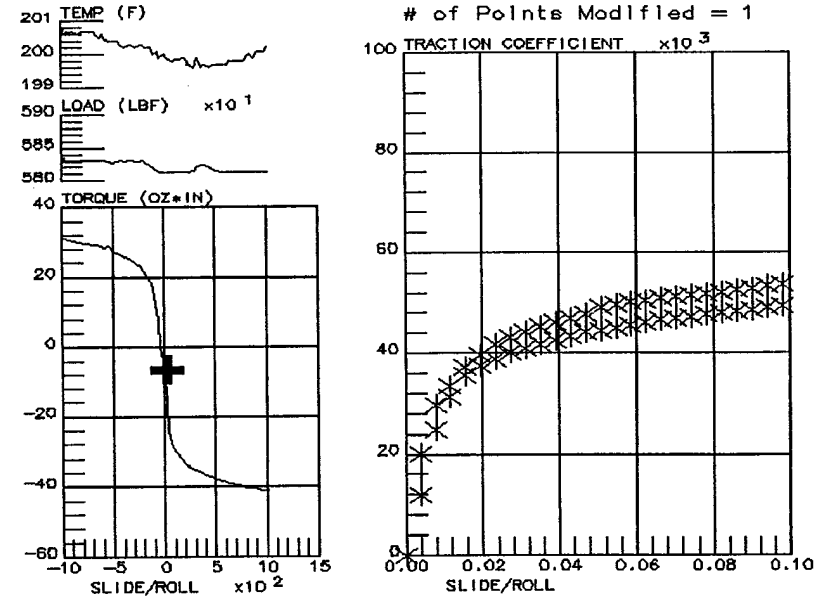
CC 89-180 Vistalube 7 #242
200F 13LBF 343RPM 15 FILE: vist-10



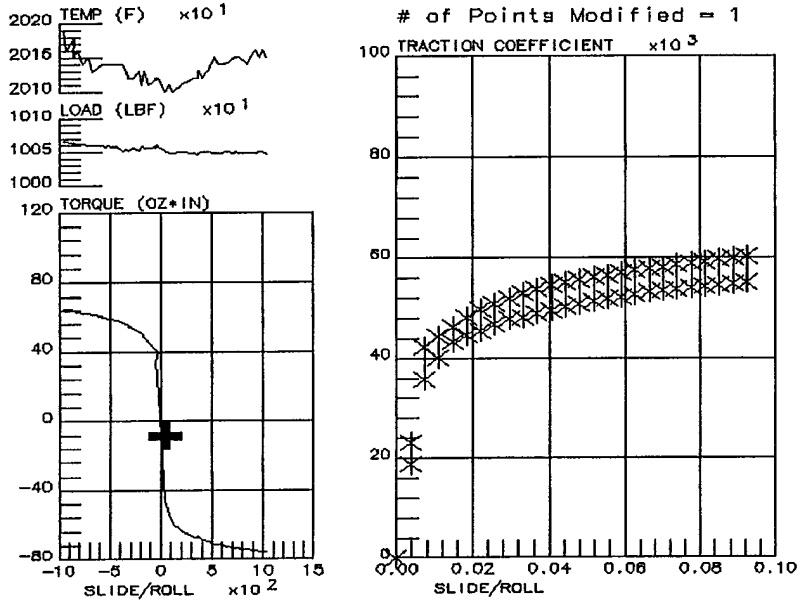
CC 89-180 Vistalube 7 #243
200F 30LBF 343RPM 16 FILE: vist-10



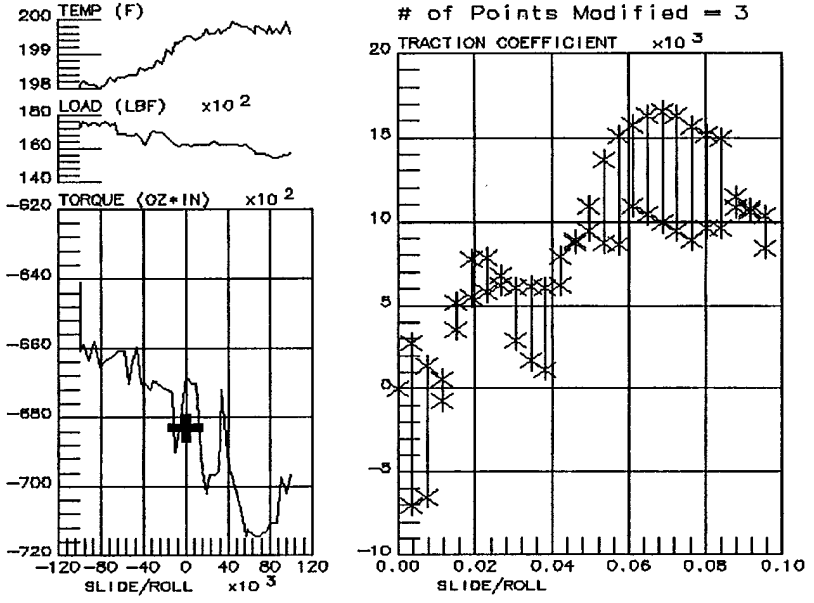
CC 89-180 Vistalube 7 #244
200F 58LBF 343RPM 17 FILE: vist-10



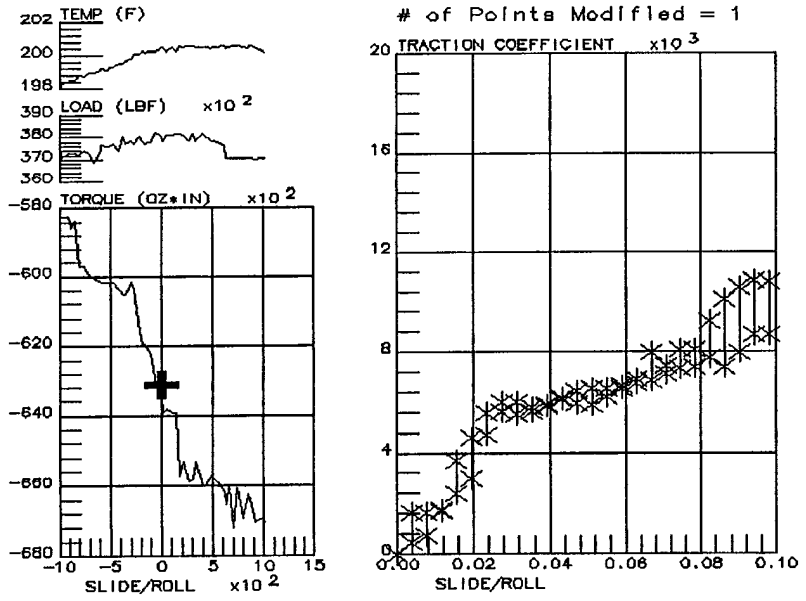
CC 89-180 Vistalube 7 #245
200F 100LBF 343RPM 18 FILE: vist-10



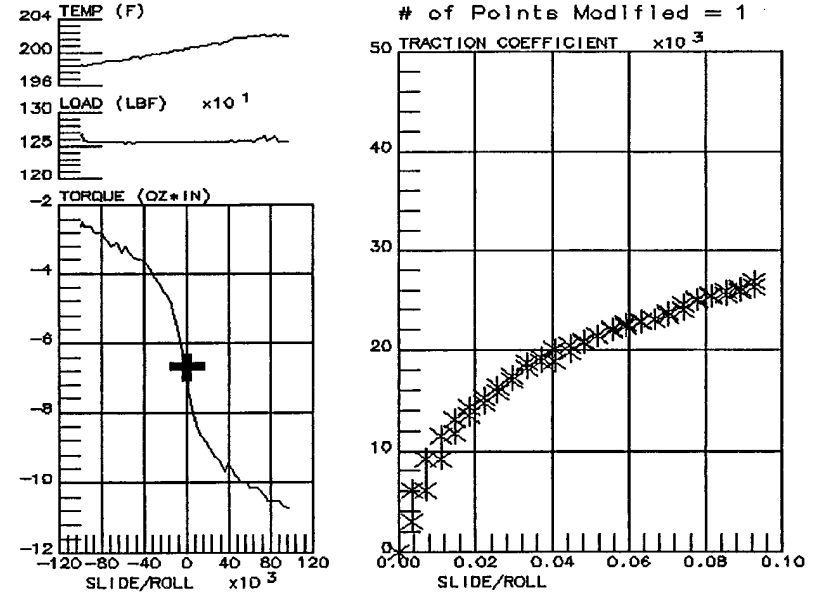
CC 89-180 Vistalube 7 #246
200F 2LBF 650RPM 19 FILE: vist-10



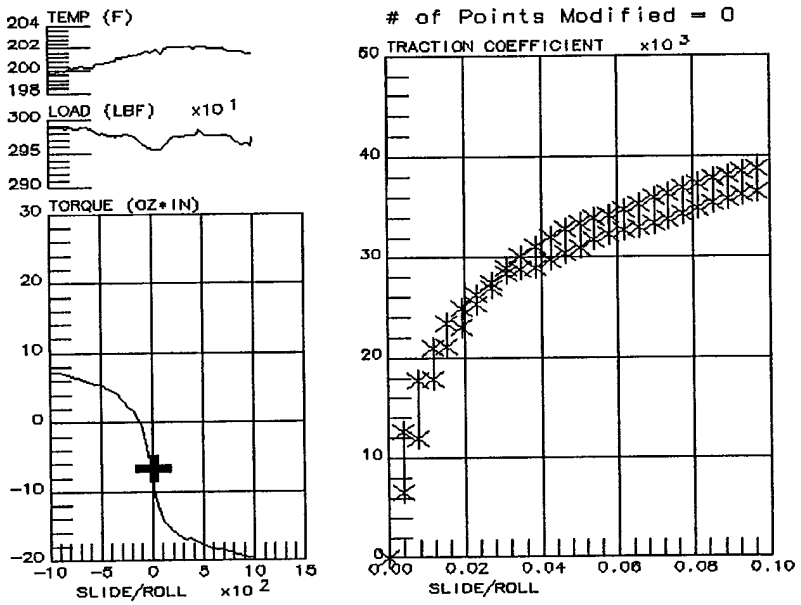
CC 89-180 Vistalube 7 #247
200F 4LBF 650RPM 20 FILE: vist-10



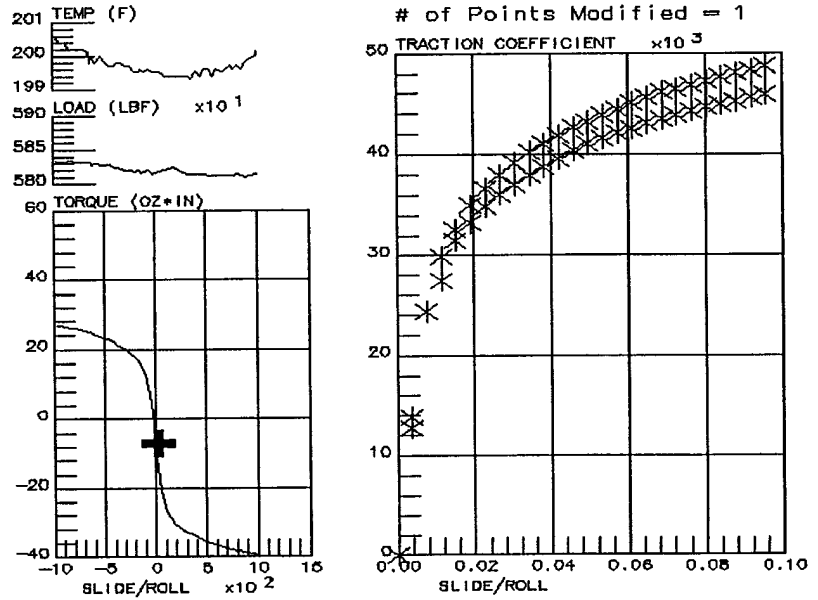
CC 89-180 Vistalube 7 #248
200F 13LBF 650RPM 21 FILE: vist-10



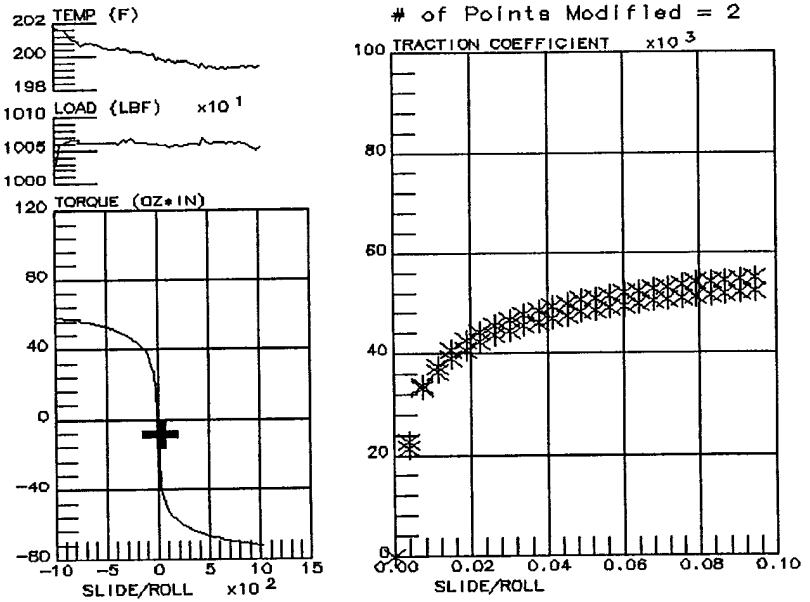
CC 89-180 Vistalube 7 #249
200F 30LBF 650RPM 22 FILE: vist-10



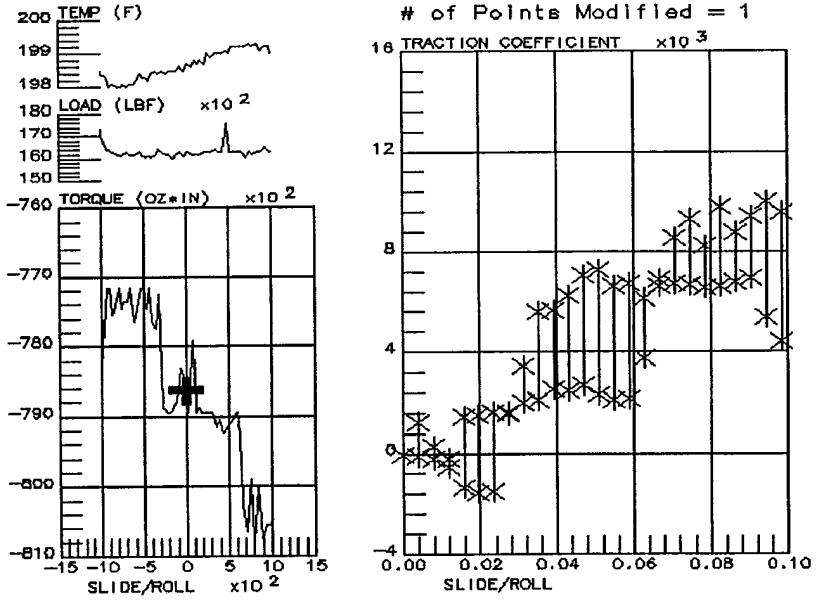
CC 89-180 Vistalube 7 #250
200F 58LBF 650RPM 23 FILE: vist-10



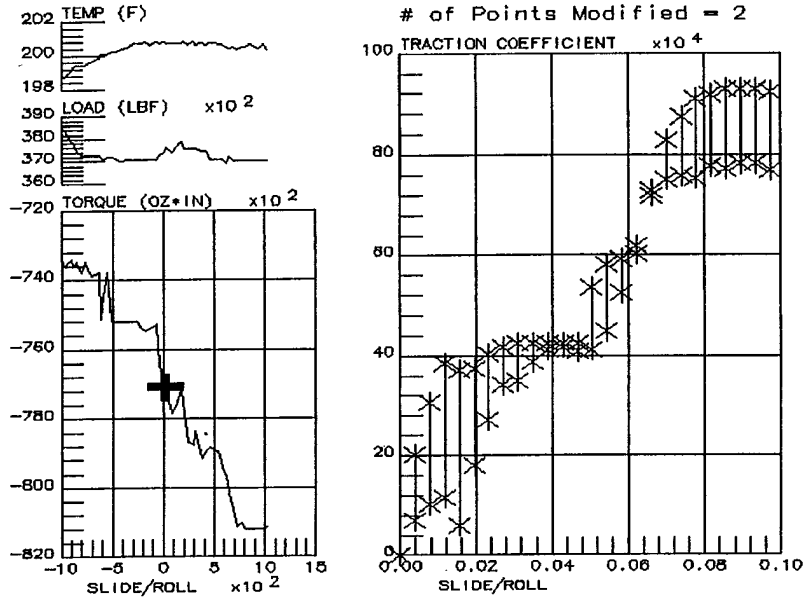
CC 89-180 Vistalube 7 #251
200F 100LBF 650RPM 24 FILE: vist-10



CC 89-180 Vistalube 7 #252
200F 2LBF 1260RPM 25 FILE: vist-10



CC 89-180 Vistalube 7 #253
200F 4LBF 1260RPM 26 FILE: vist-10



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CC 89-180 Vistalube 7 #254
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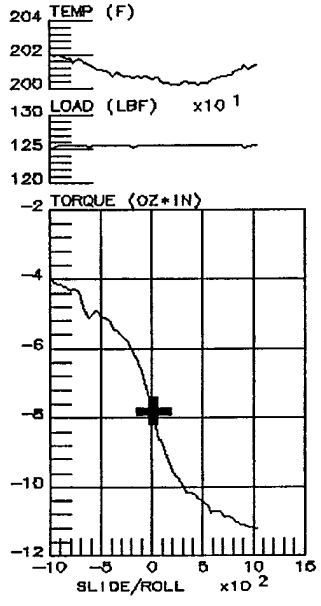
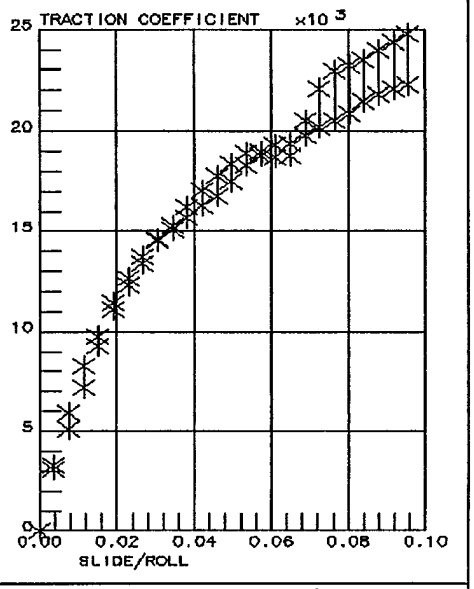
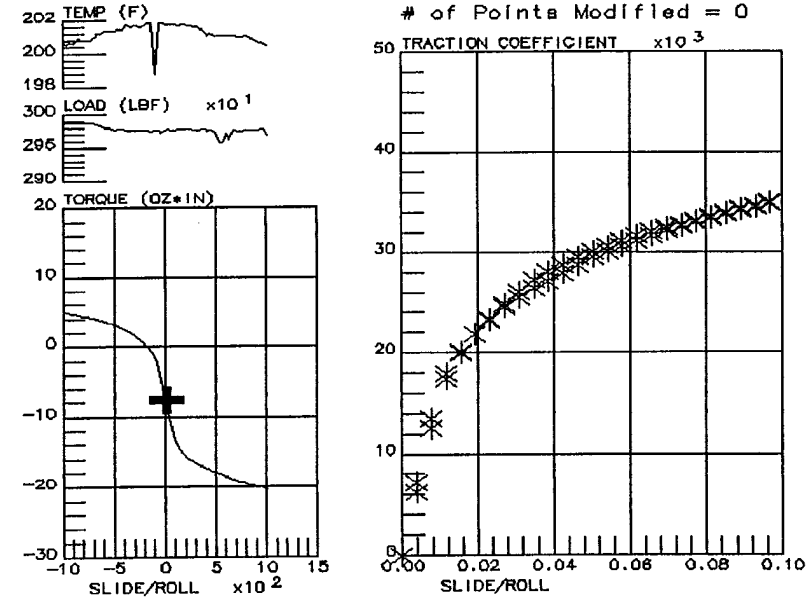


# of Points Modified = 0

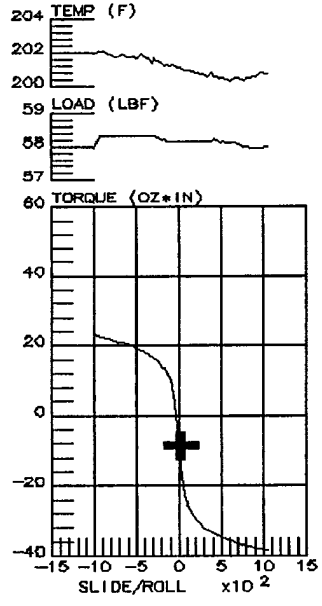


CC 89-180 Vistalube 7 #255
200F 30LBF 1260RPM 28 FILE: vist-10



# of Points Modified = 0

CC 89-180 Vistalube 7 #256
200F 58LBF 1260RPM 29 FILE: vist-10



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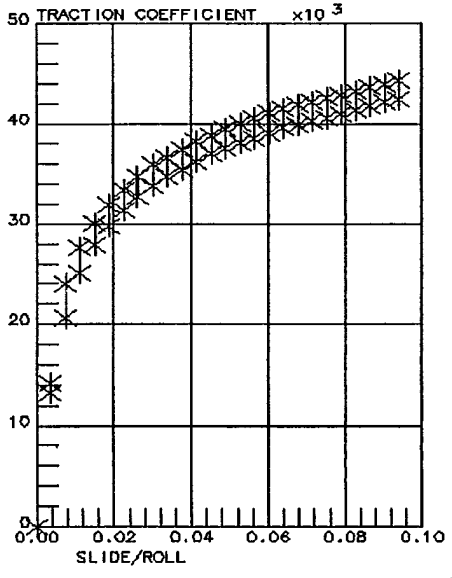
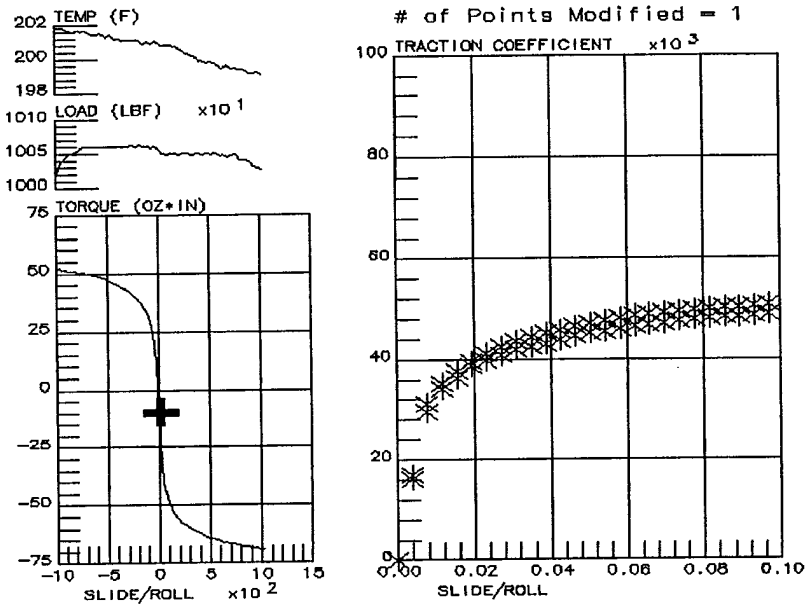
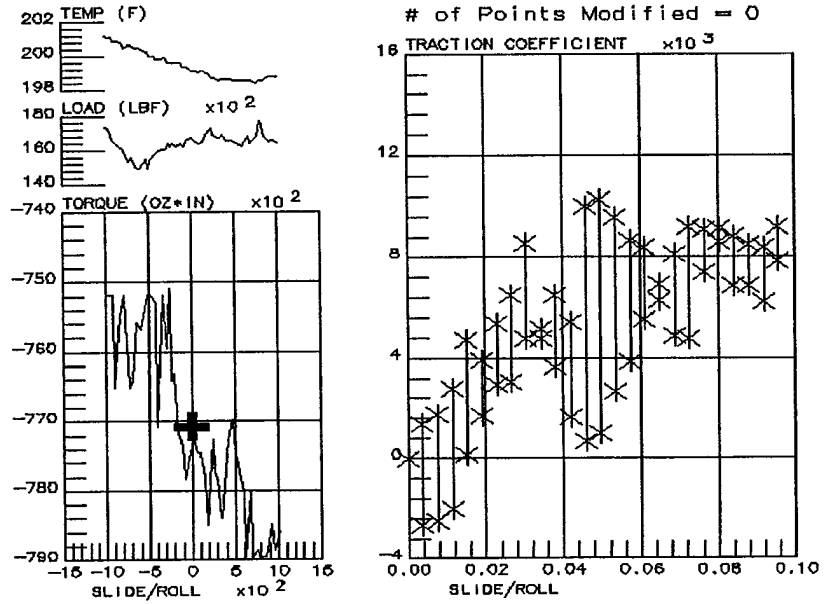


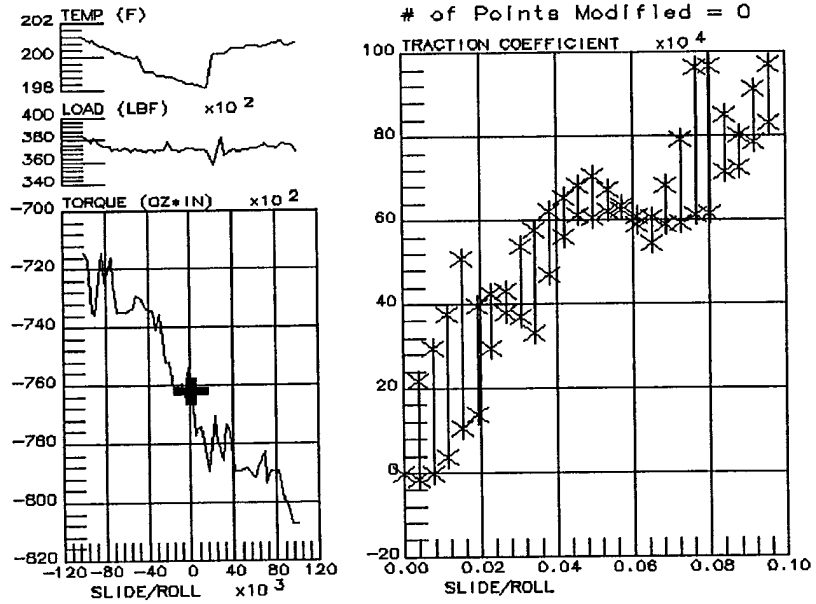
CC 89-180 Vistalube 7 #257
200F 100LBF 1260RPM 30 FILE: vist-10



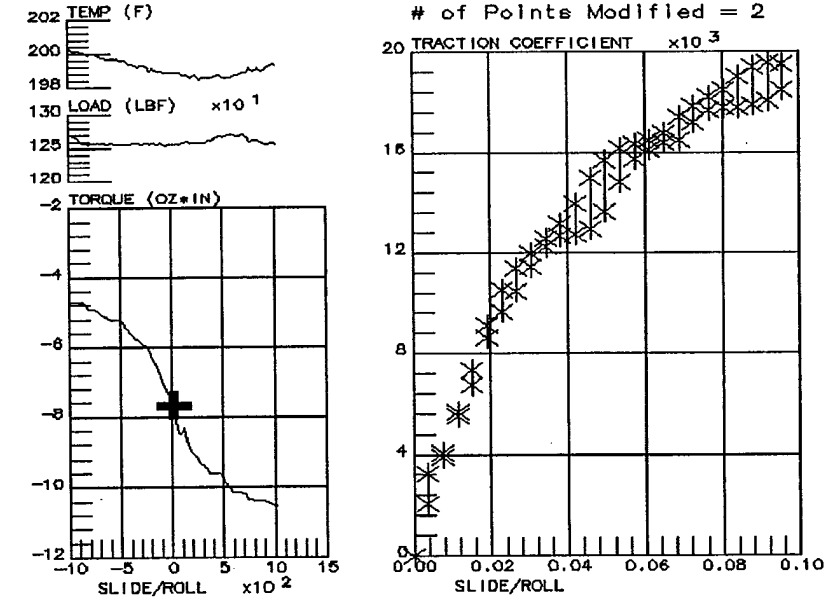
CC 89-180 Vistalube 7 #258
200F 2LBF 2559RPM 31 FILE: vist-10



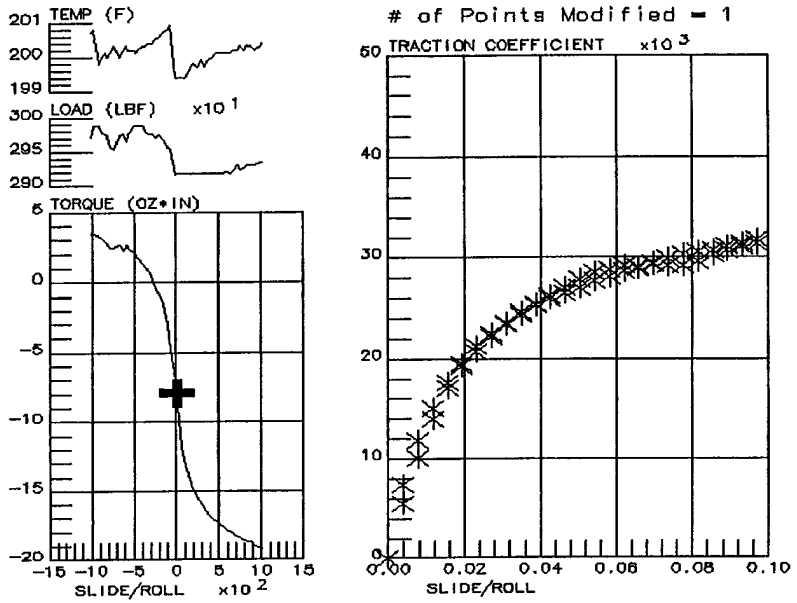
CC 89-180 Vistalube 7 #259
200F 4LBF 2559RPM 32 FILE: vist-10



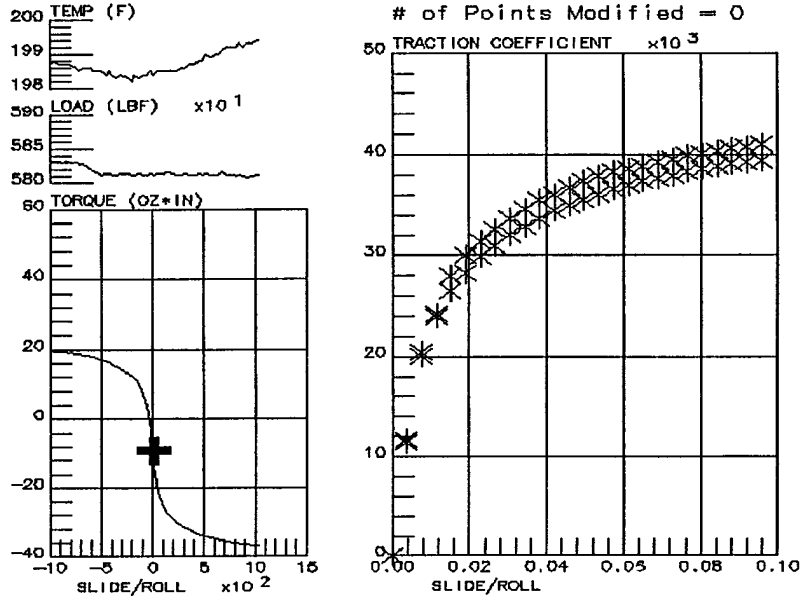
CC 89-180 Vistalube 7 #260
200F 13LBF 2559RPM 33 FILE: vist-10



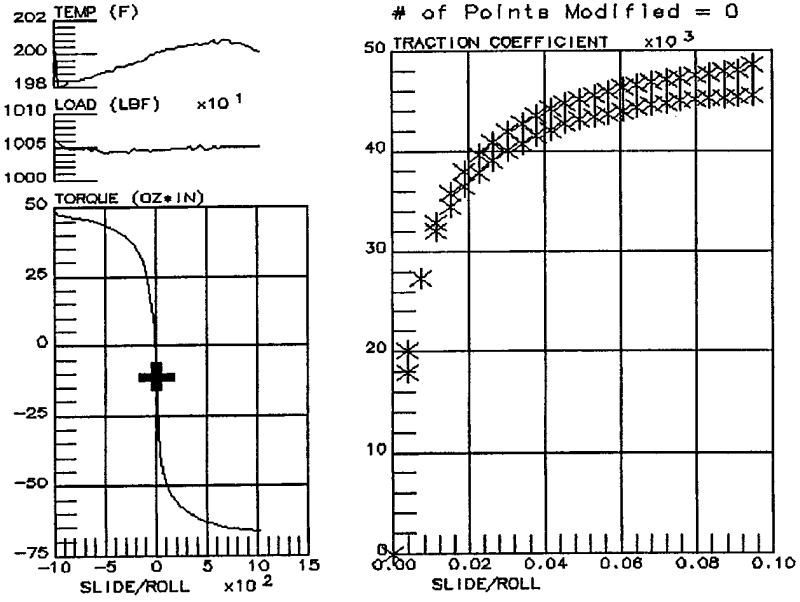
CC 89-180 Vistalube 7 #261
200F 30LBF 2559RPM 34 FILE: vist-10



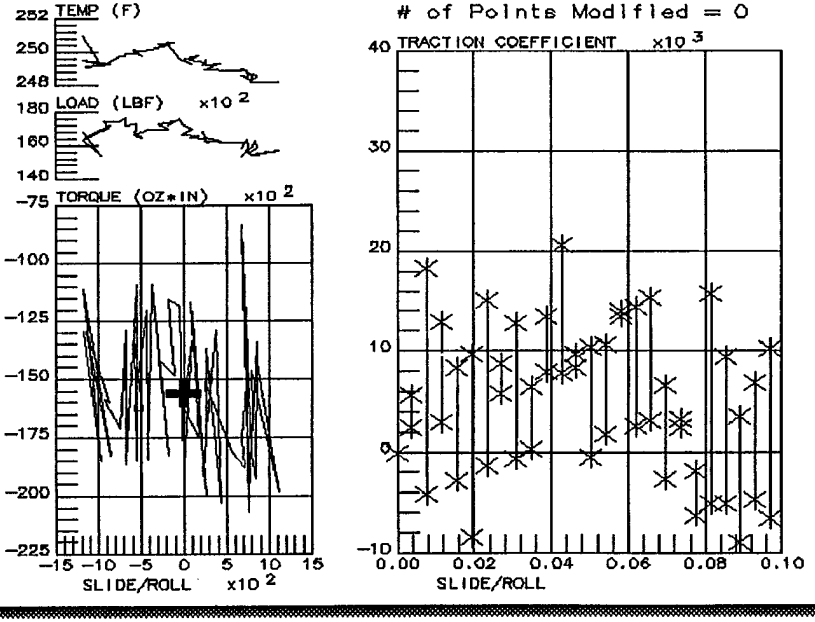
CC 89-180 Vistalube 7 #262
200F 58LBF 2559RPM 35 FILE: vist-10



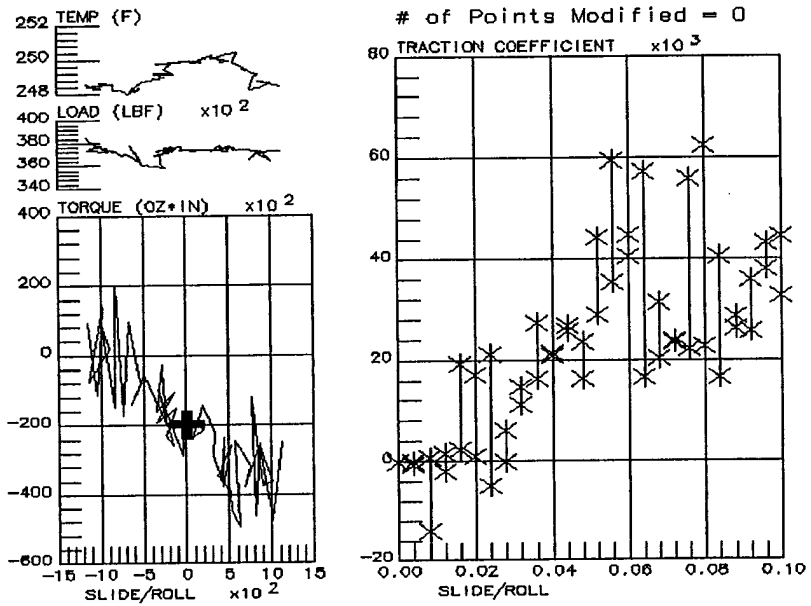
CC 89-180 Vistalube 7 #263
200F 100LBF 2559RPM 36 FILE: vist-10



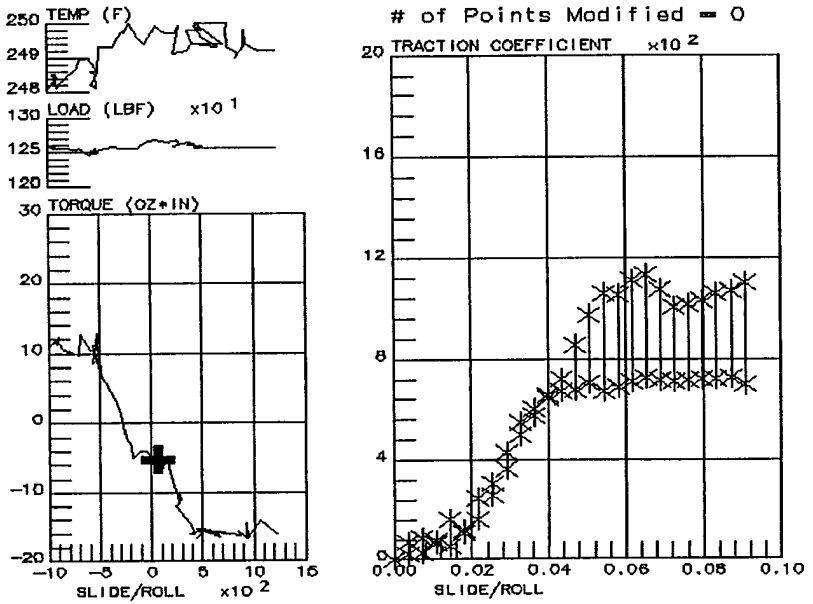
CC 89-180 Vistalube 7 #264
250F 2LBF 76RPM 1 FILE: vist-11



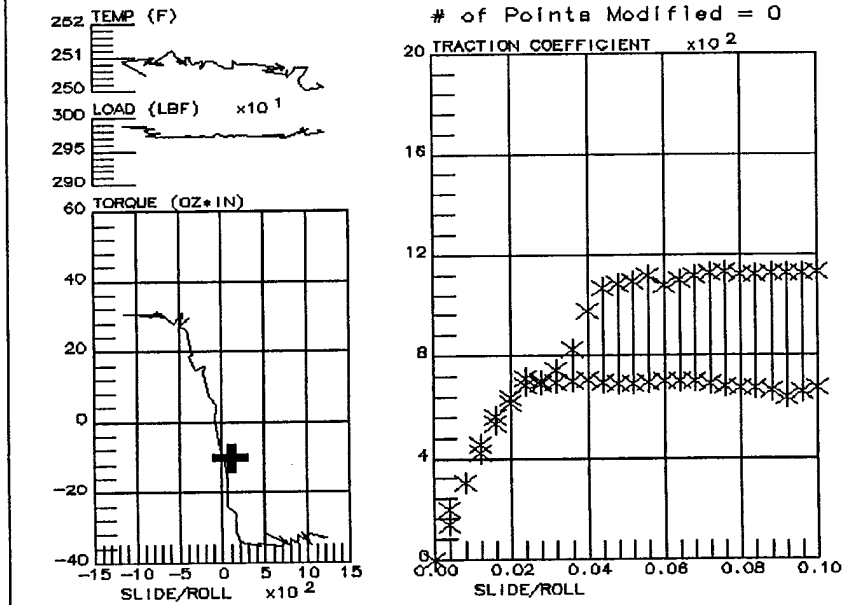
CC 89-180 Vistalube 7 #265
250F 4LBF 76RPM 2 FILE: vist-11



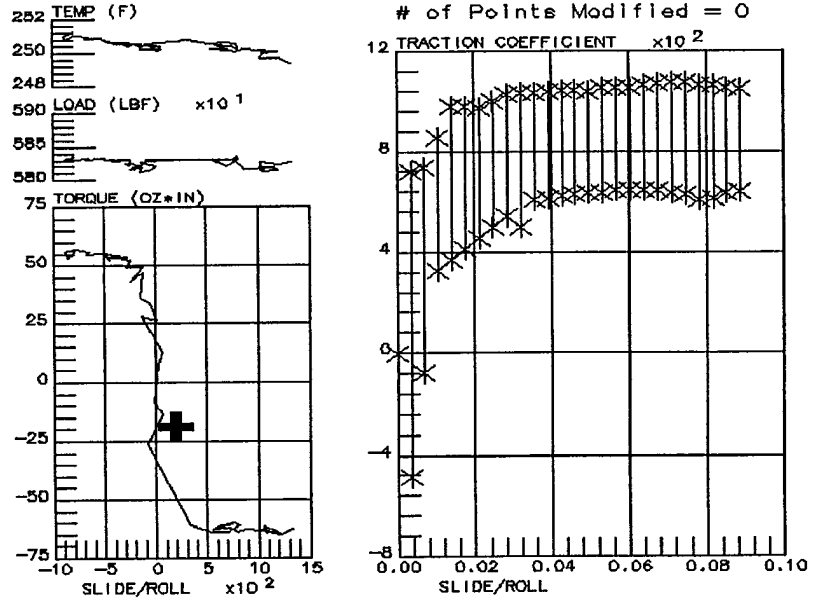
CC 89-180 Vistalube 7 #266
250F 13LBF 76RPM 3 FILE: vist-11



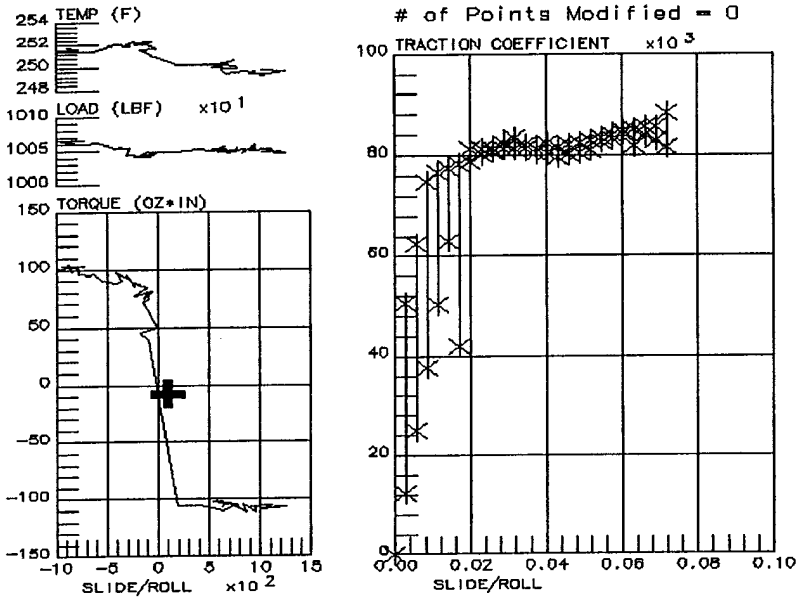
CC 89-180 Vistalube 7 #267
250F 30LBF 76RPM 4 FILE: vist-11



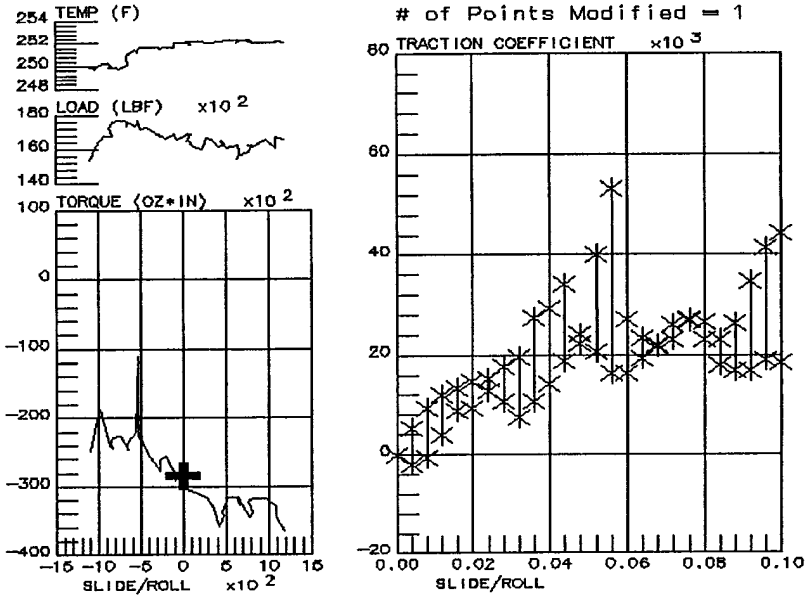
CC 89-180 Vistalube 7 #268
250F 58LBF 76RPM 5 FILE: vist-11



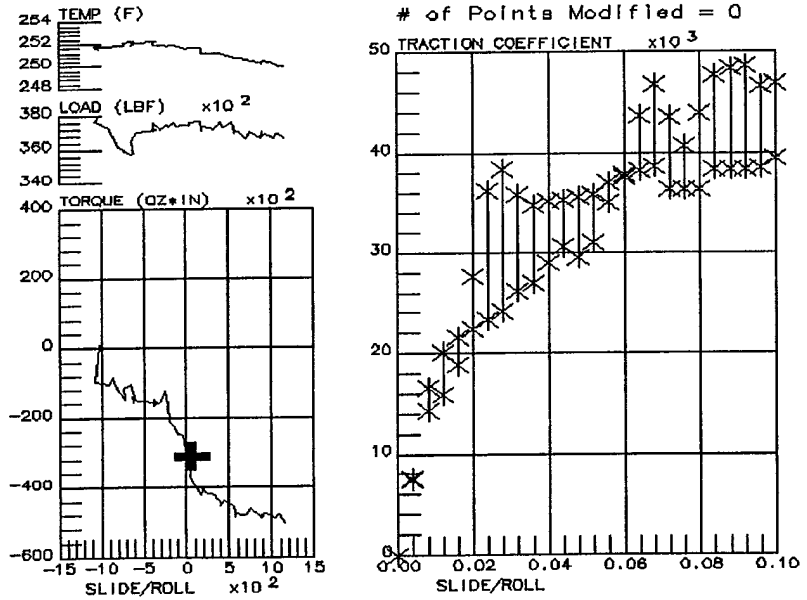
CC 89-180 Vistalube 7 #269
250F 100LBF 76RPM 6 FILE: vist-11



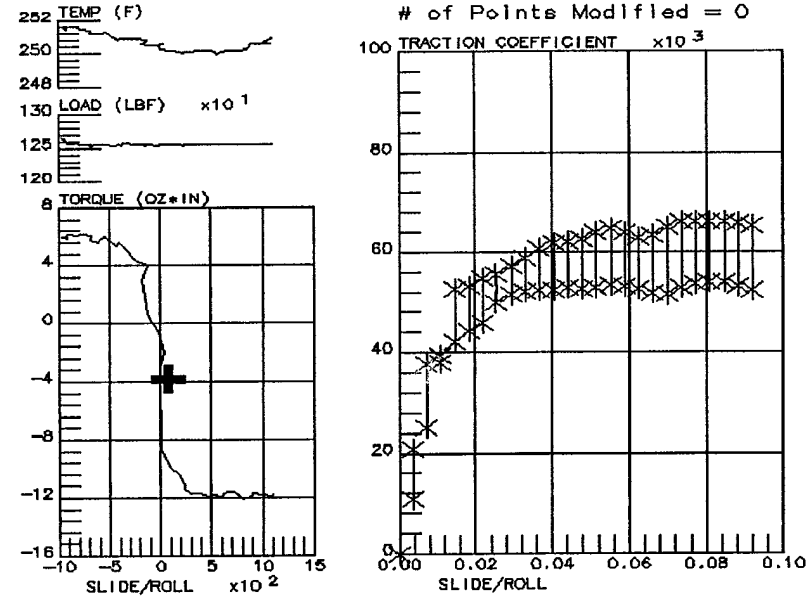
CC 89-180 Vistalube 7 #270
250F 2LBF 152RPM 7 FILE: vist-11



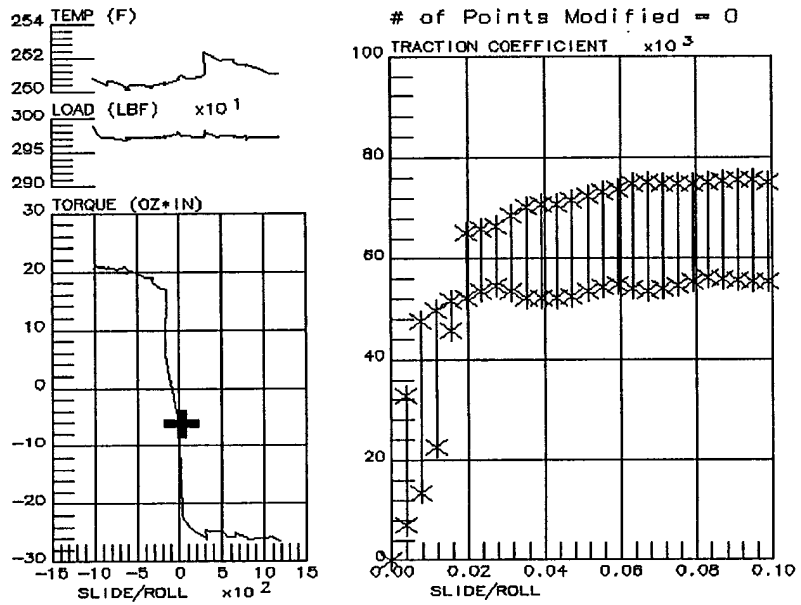
CC 89-180 Vistalube 7 #271
250F 4LBF 152RPM 8 FILE: vist-11



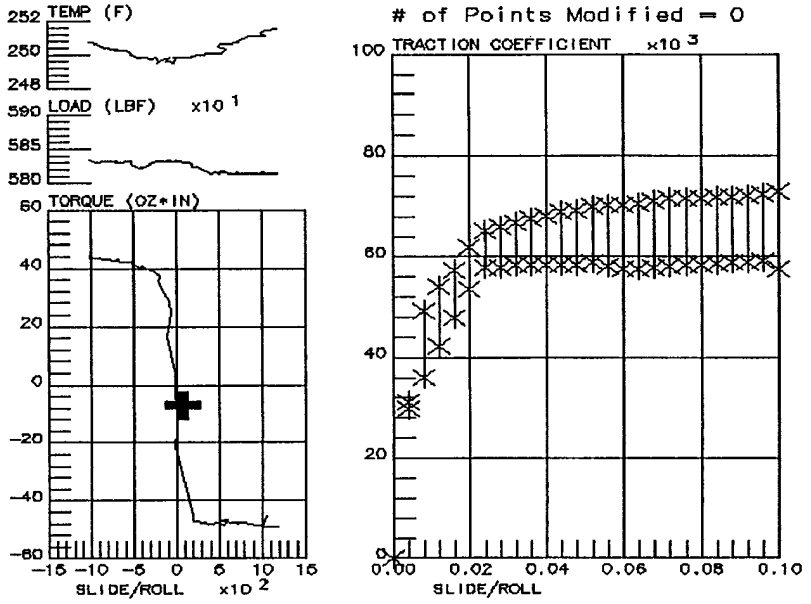
CC 89-180 Vistalube 7 #272
250F 13LBF 152RPM 9 FILE: vist-11



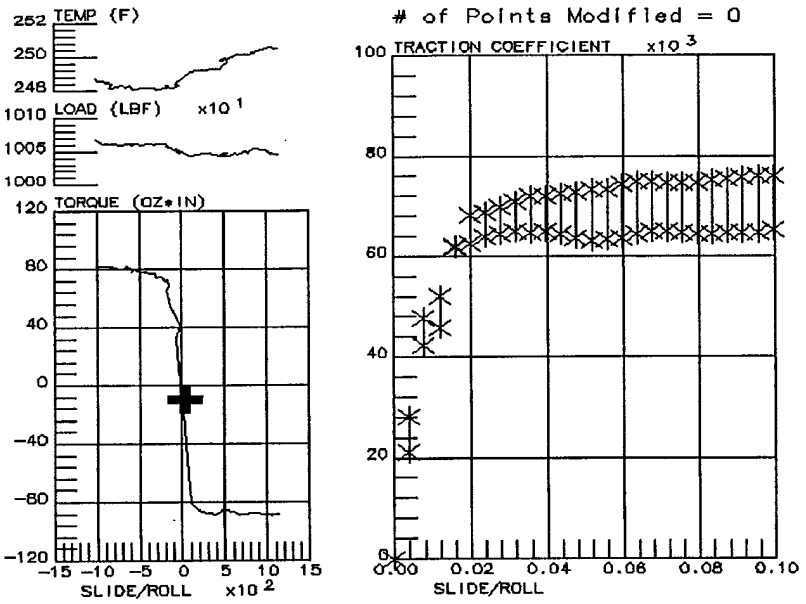
CC 89-180 Vistalube 7 #273
250F 30LBF 152RPM 10 FILE: vist-11



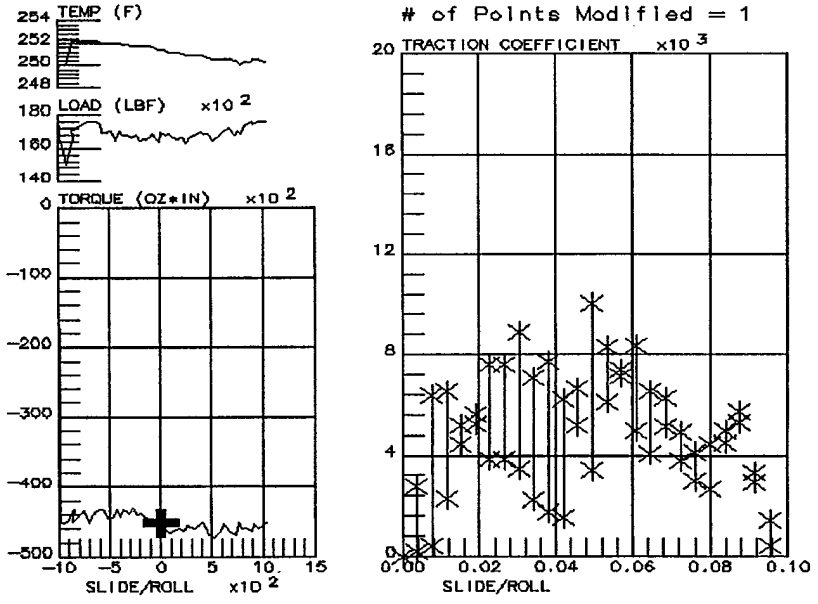
CC 89-180 Vistalube 7 #274
250F 58LBF 152RPM 11 FILE: vist-11



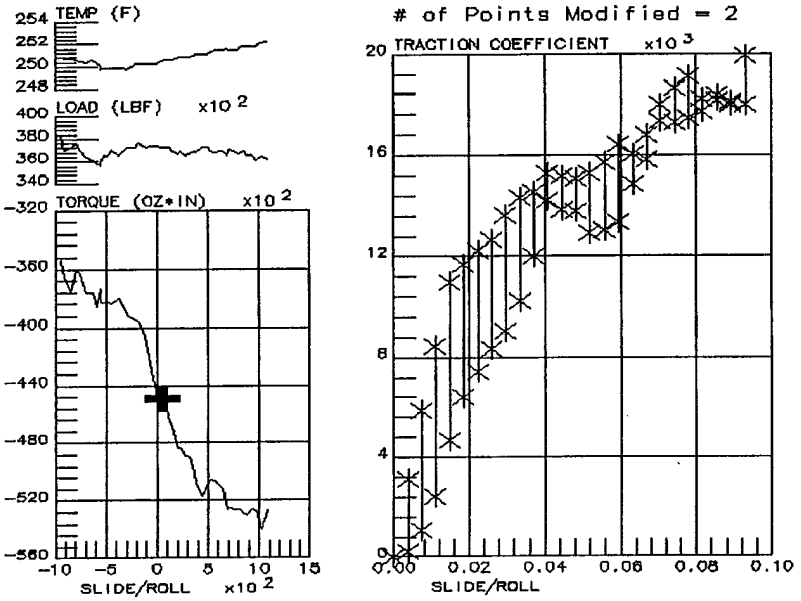
CC 89-180 Vistalube 7 #275
250F 100LBF 152RPM 12 FILE: vist-11



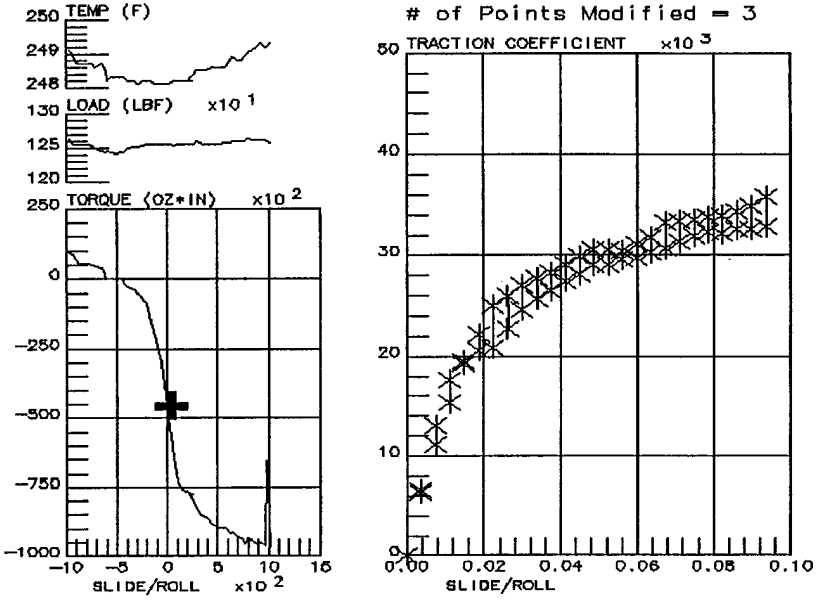
CC 89-180 Vistalube 7 #276
250F 2LBF 343RPM 13 FILE: vist-11



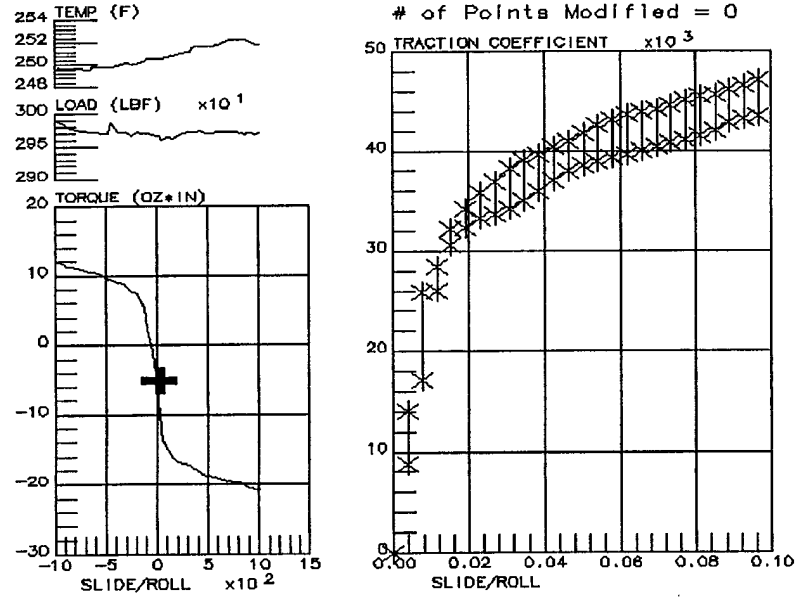
CC 89-180 Vistalube 7 #277
250F 4LBF 343RPM 14 FILE: vist-11



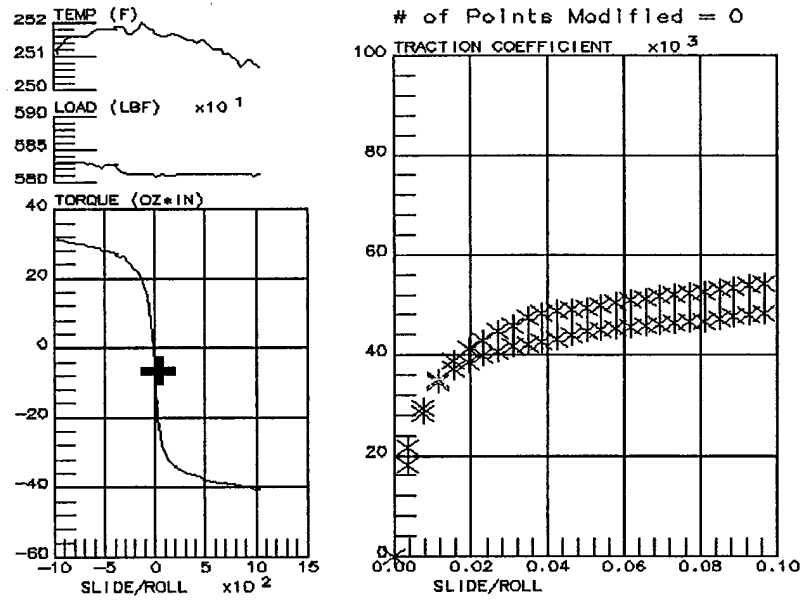
CC 89-180 Vistalube 7 #278
250F 13LBF 343RPM 15 FILE: vist-11



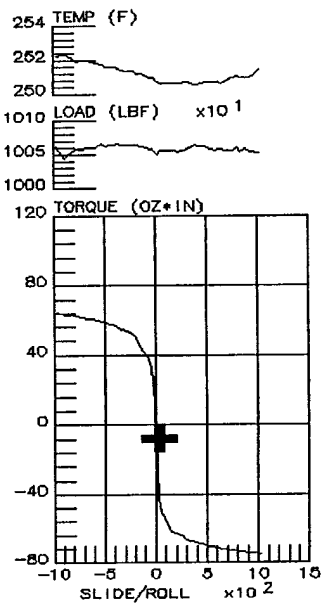
CC 89-180 Vistalube 7 #279
250F 30LBF 343RPM 16 FILE: vist-11



CC 89-180 Vistalube 7 #280
250F 58LBF 343RPM 17 FILE: vist-11



CC 89-180 Vistalube 7 #281
250F 100LBF 343RPM 18 FILE: vist-11



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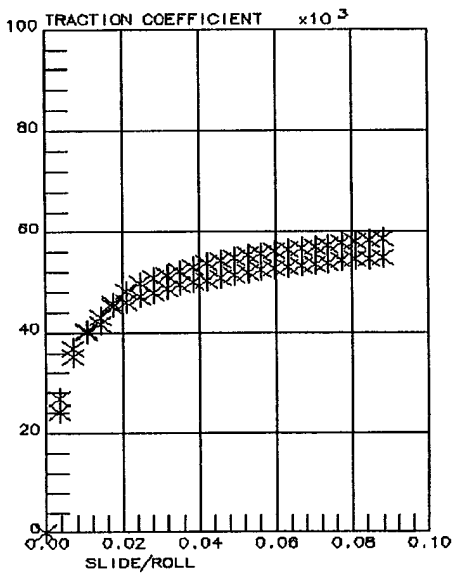
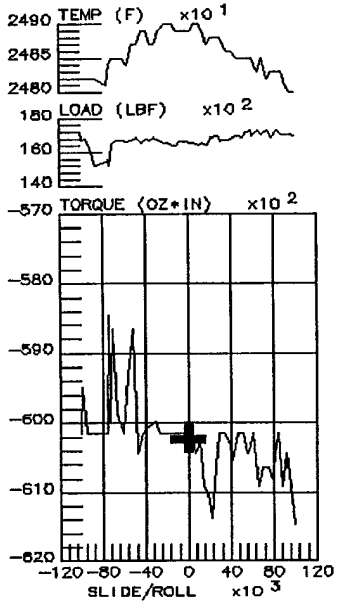


CC 89-180 Vistalube 7 #282
250F 2LBF 650RPM 19 FILE: vist-11



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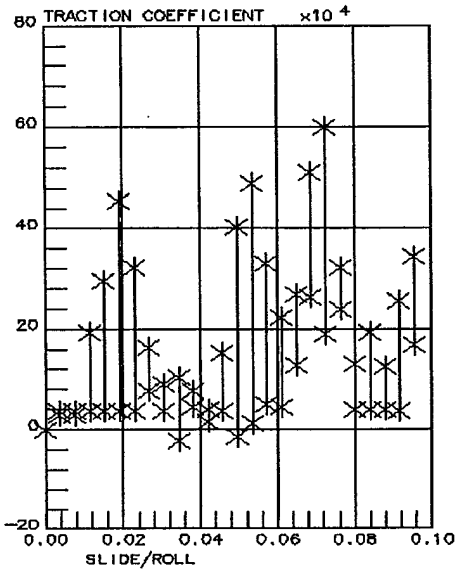
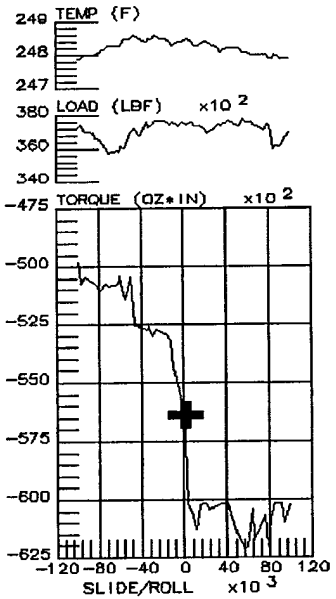


CC 89-180 Vistalube 7 #283
250F 4LBF 650RPM 20 FILE: vist-11



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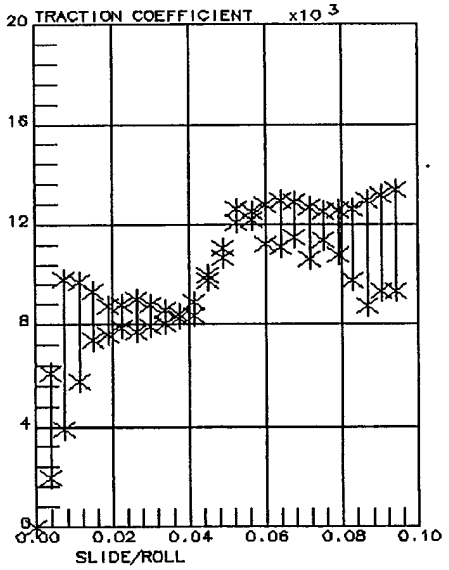
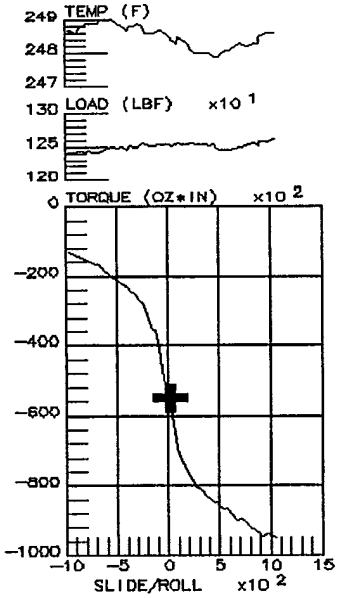


CC 89-180 Vistalube 7 #284
250F 13LBF 650RPM 21 FILE: vist-11



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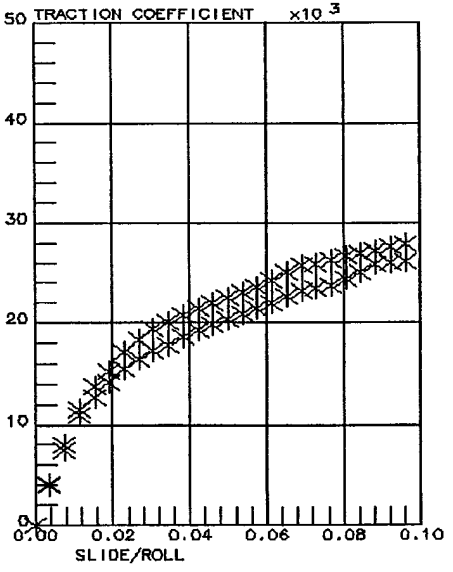
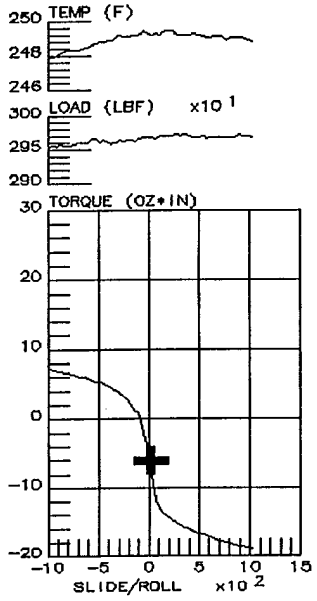


CC 89-180 Vistalube 7 #285
250F 30LBF 650RPM 22 FILE: vist-11



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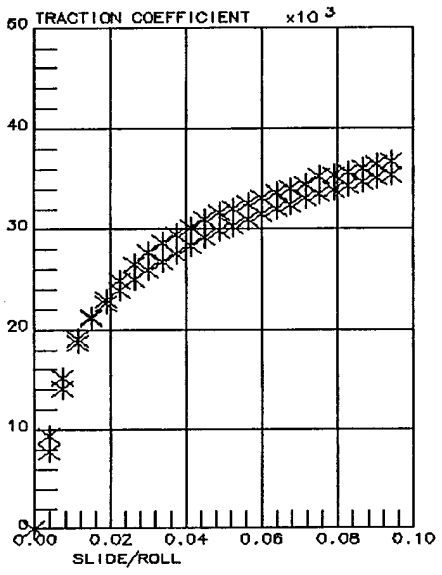
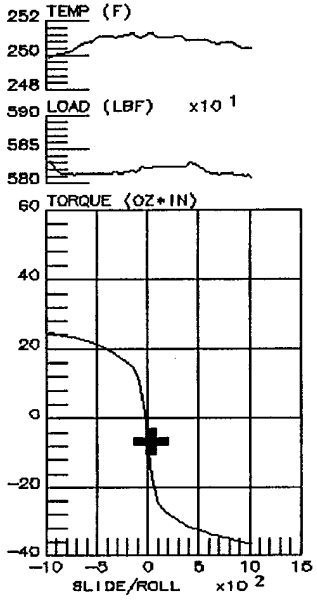


CC 89-180 Vistalube 7 #286
250F 58LBF 650RPM 23 FILE: vist-11



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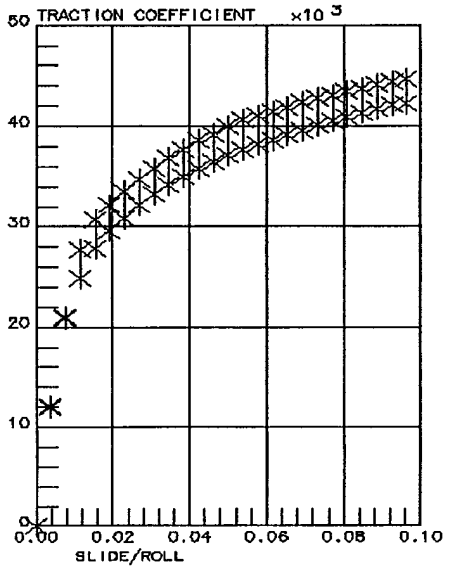
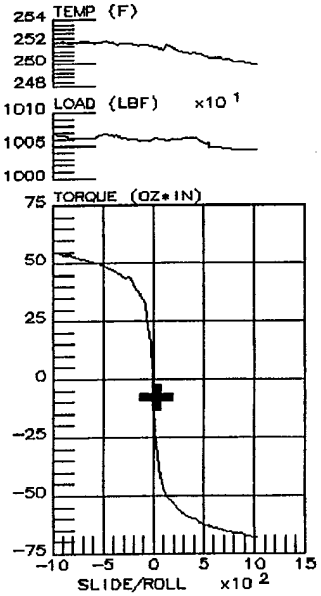


CC 89-180 Vistalube 7 #287
250F 100LBF 650RPM 24 FILE: vist-11



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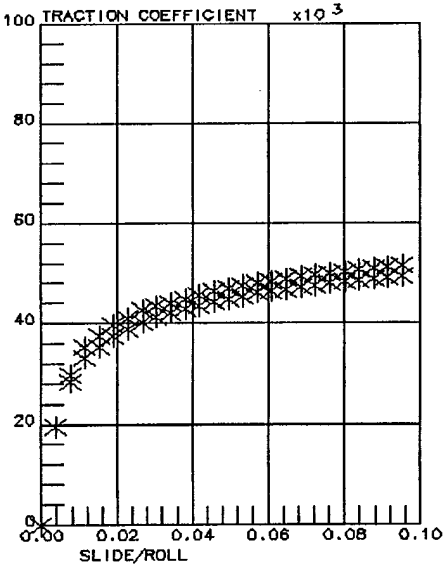
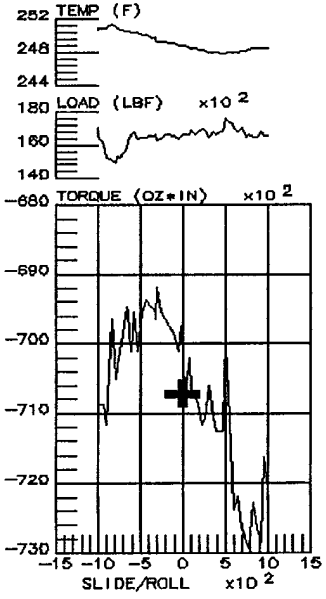


CC 89-180 Vistalube 7 #288
250F 2LBF 1260RPM 25 FILE: vist-11



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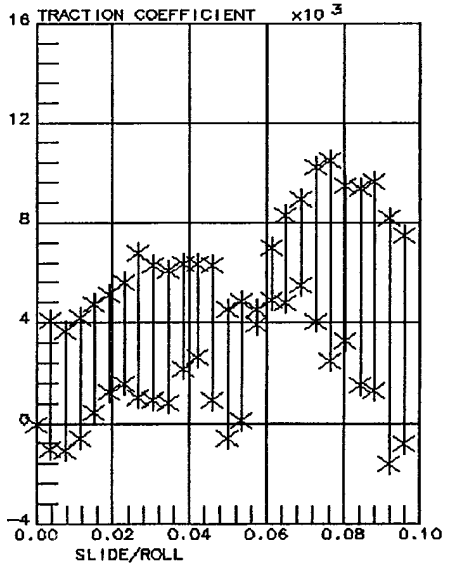
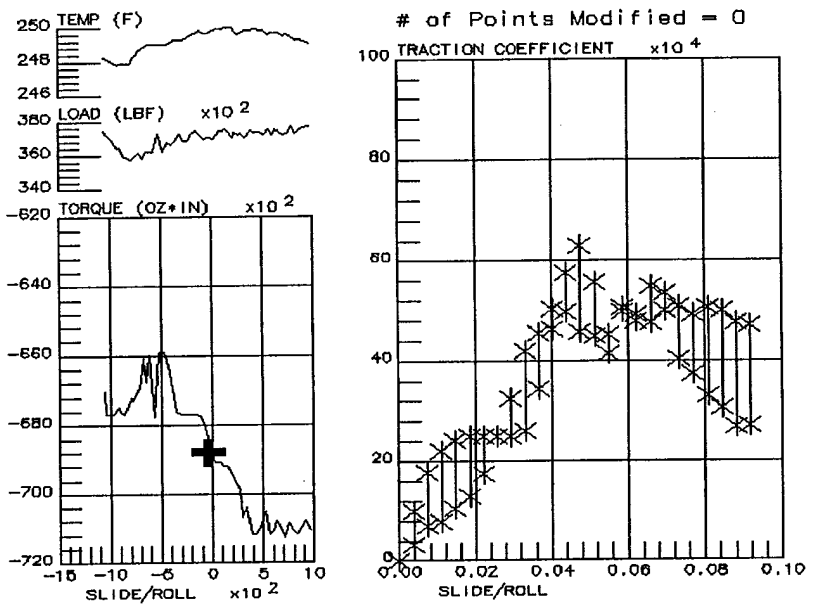


CC 89-180 Vistalube 7 #289
250F 4LBF 1260RPM 26 FILE: vist-11



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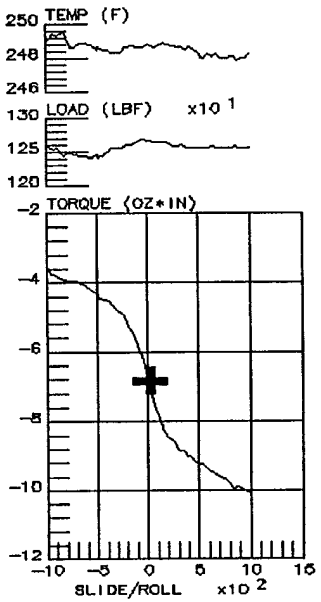
CC 89-180 Vistalube 7 #290
250F 13LBF 1260RPM 27 FILE: vist-11



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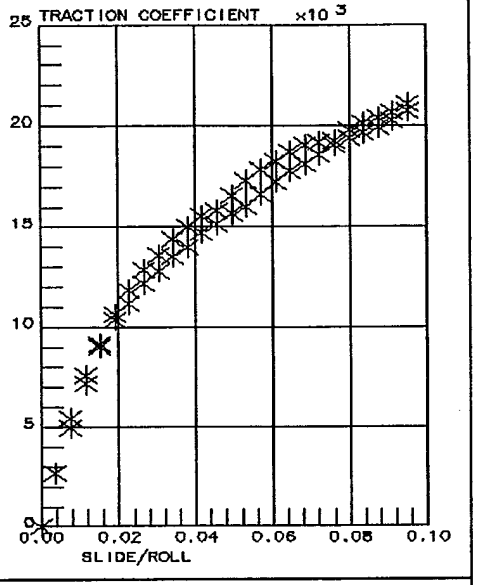
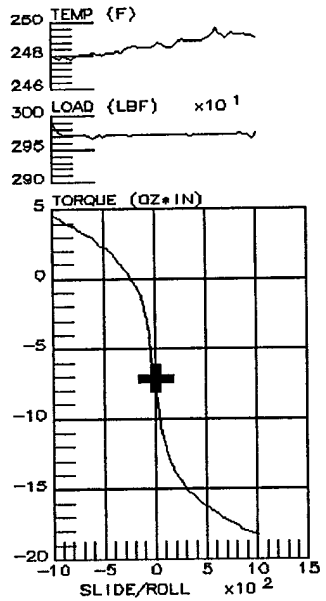


CC 89-180 Vistalube 7 #291
250F 30LBF 1260RPM 28 FILE: vist-11



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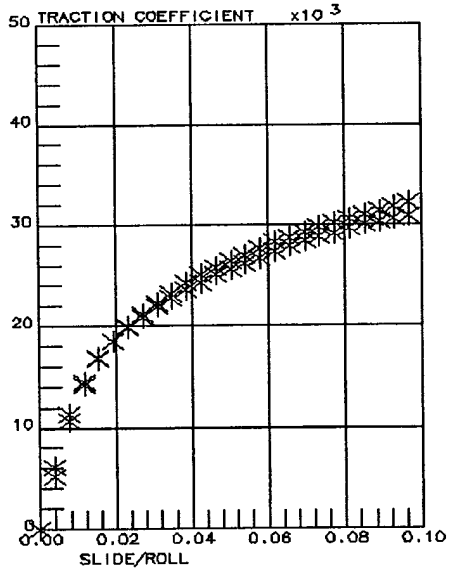
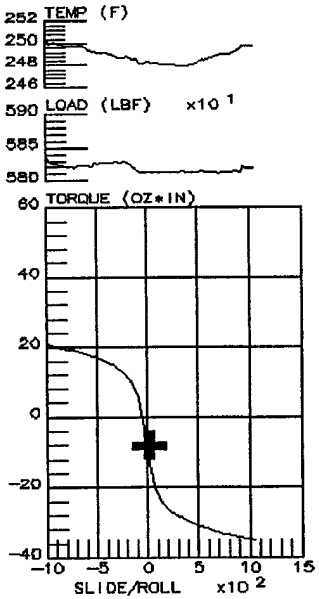


CC 89-180 Vistalube 7 #292
250F 58LBF 1260RPM 29 FILE: vist-11



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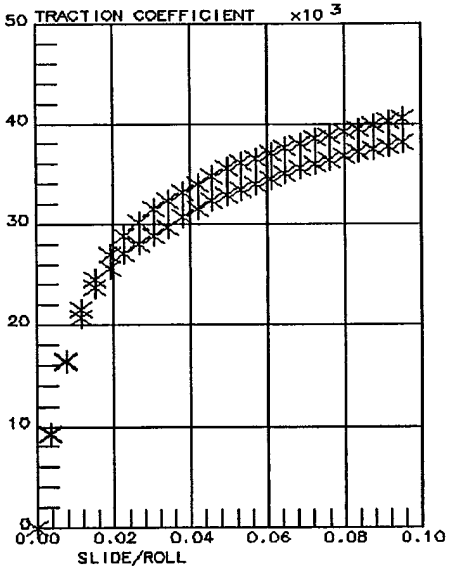
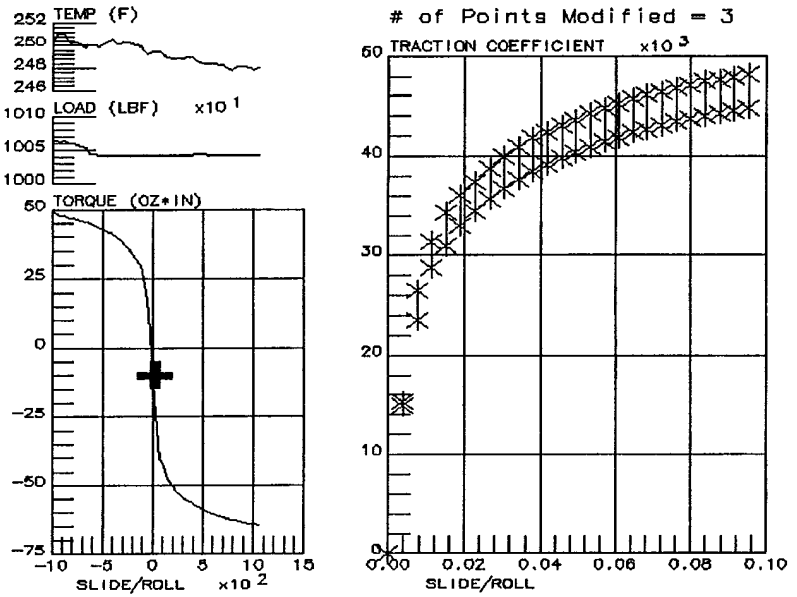
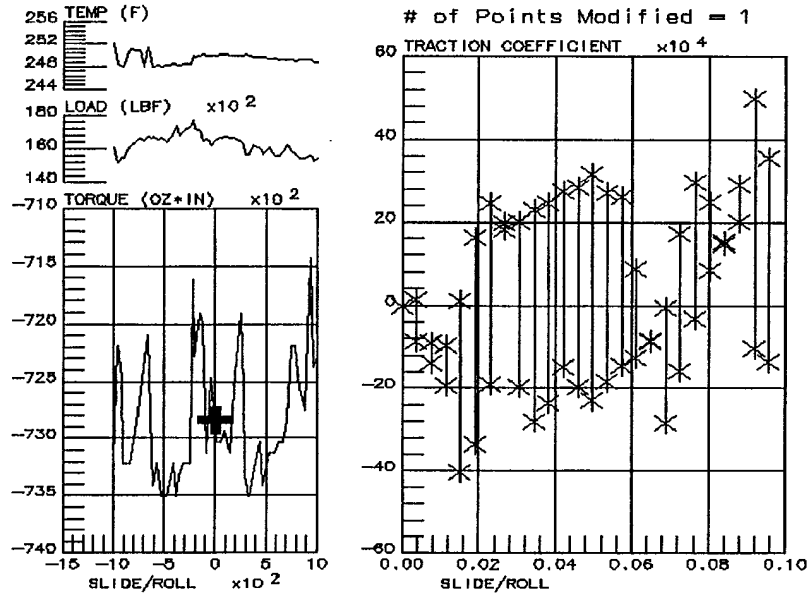


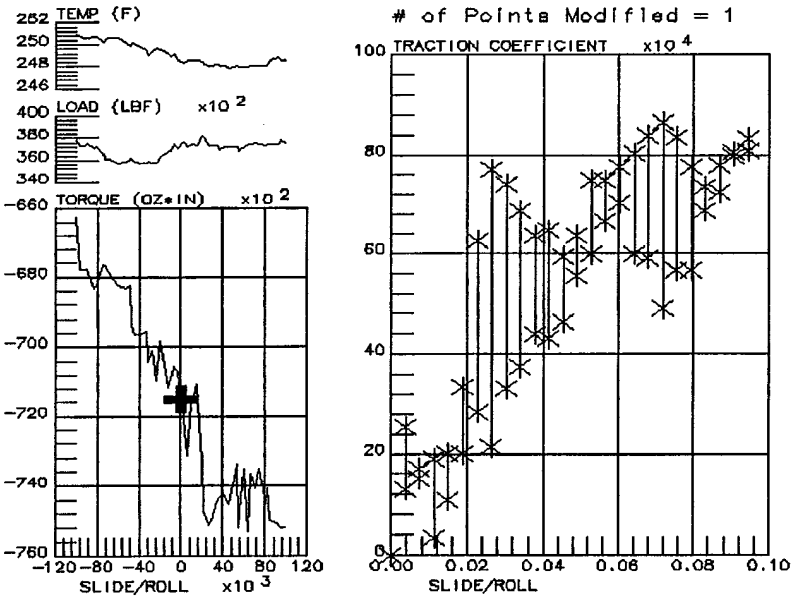
CC 89-180 Vistalube 7 #293
250F 100LBF 1260RPM 30 FILE: vist-11



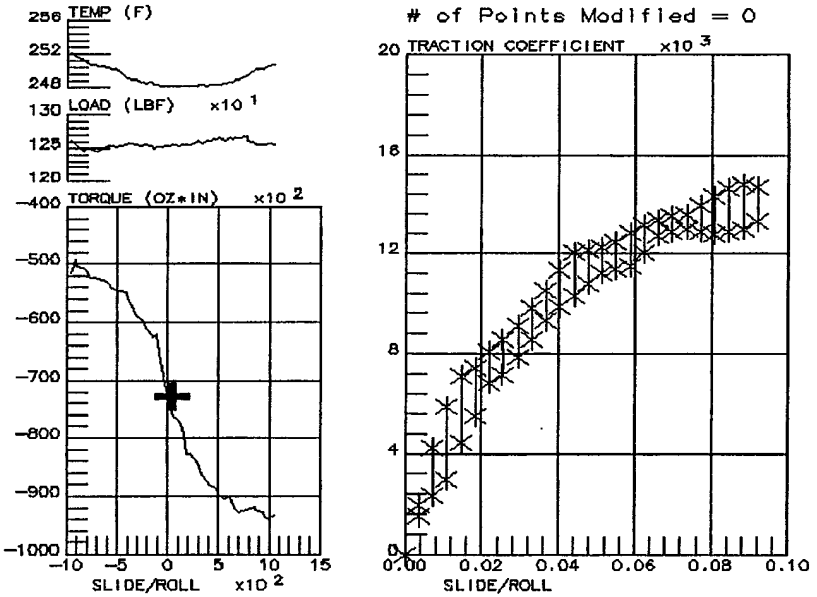
CC 89-180 Vistalube 7 #294
250F 2LBF 2559RPM 31 FILE: vist-11



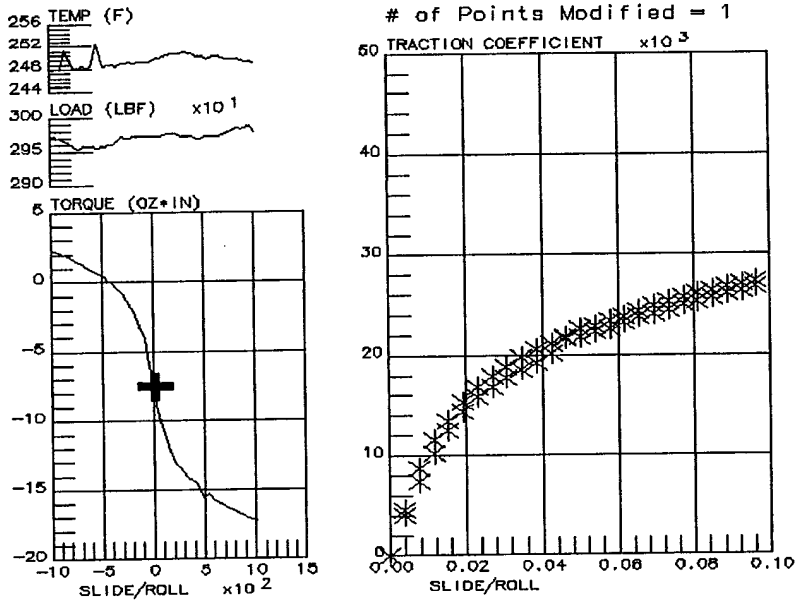
CC 89-180 Vistalube 7 #295
250F 4LBF 2559RPM 32 FILE: vist-11



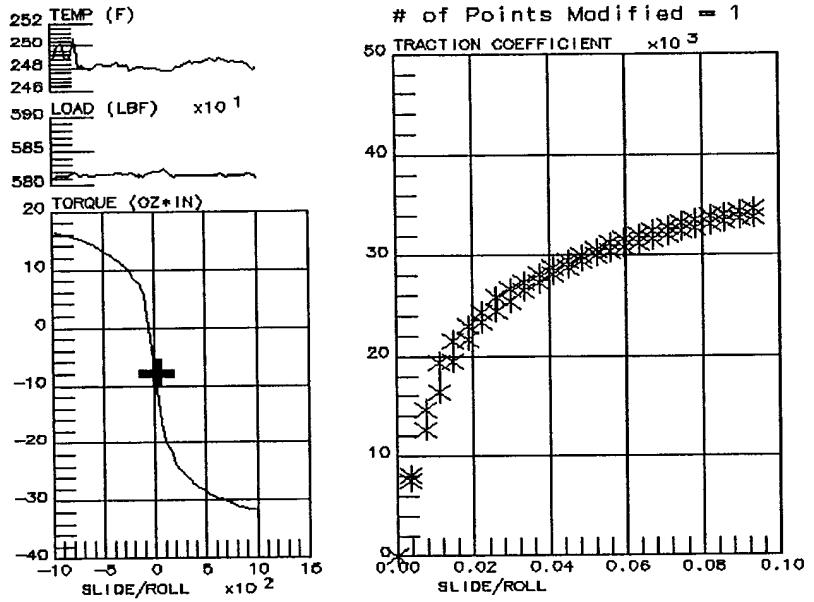
CC 89-180 Vistalube 7 #296
250F 13LBF 2559RPM 33 FILE: vist-11



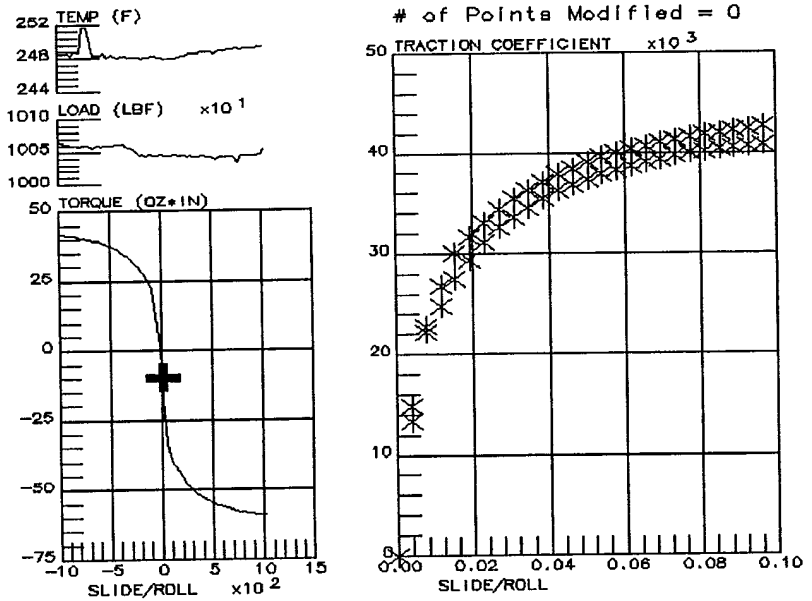
CC 89-180 Vistalube 7 #297
250F 30LBF 2559RPM 34 FILE: vist-11



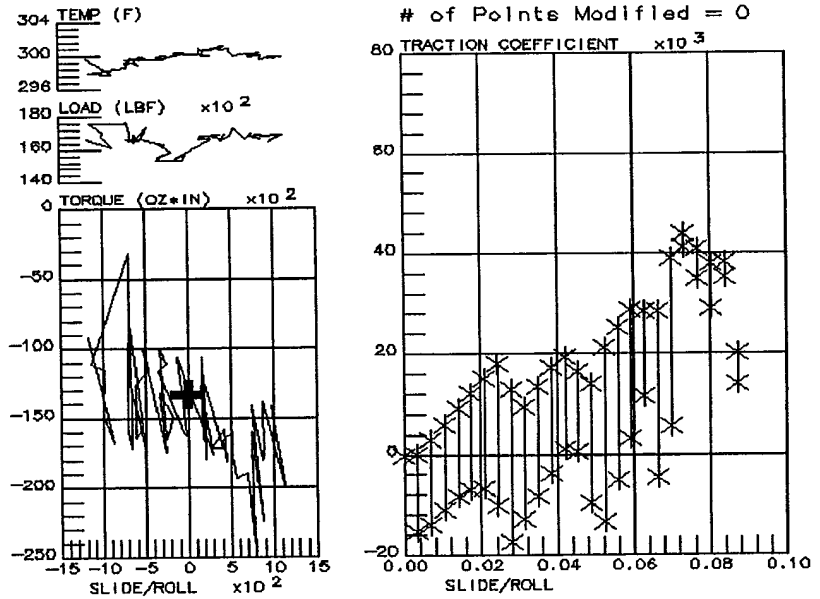
CC 89-180 Vistalube 7 #298
250F 58LBF 2559RPM 35 FILE: vist-11

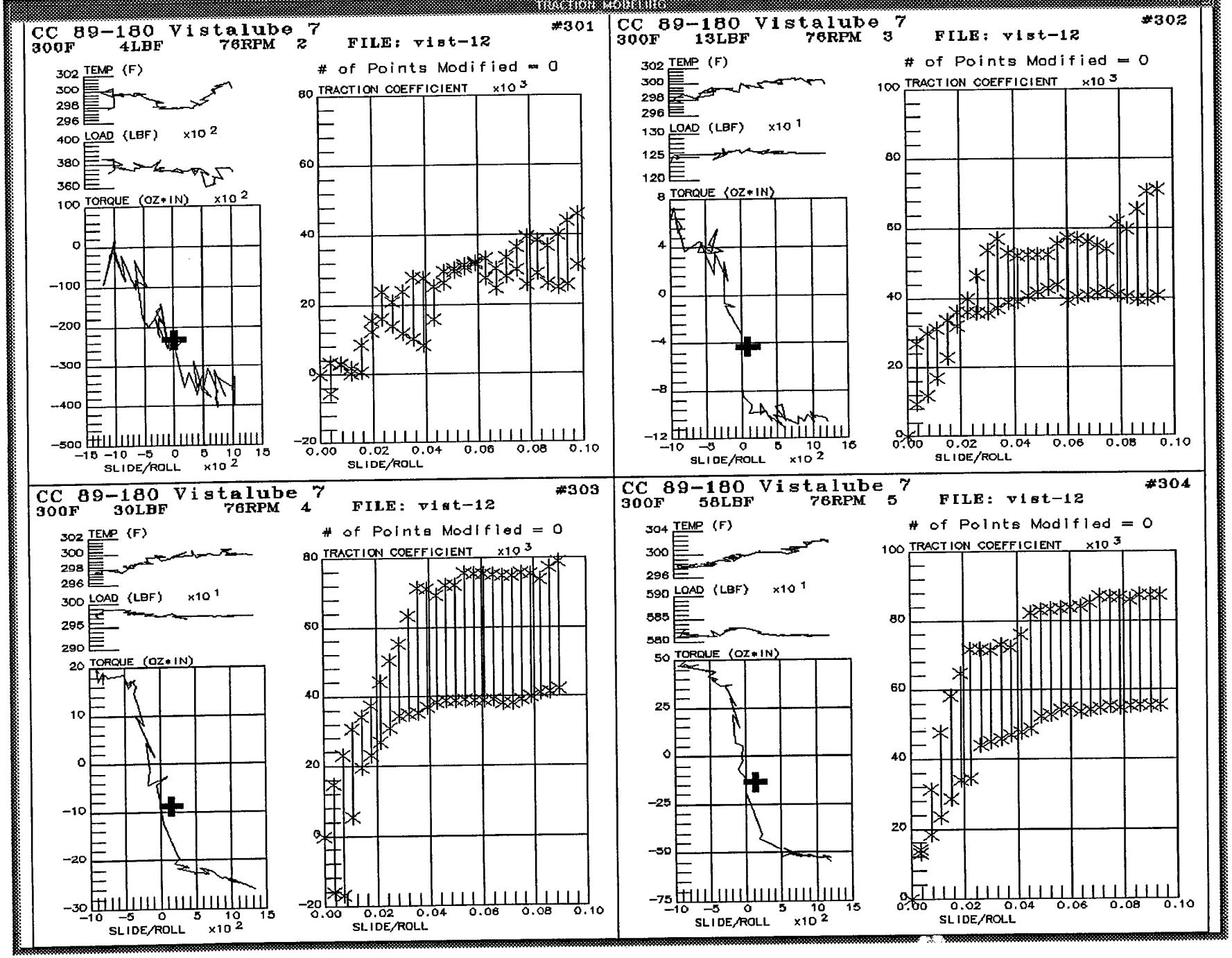


CC 89-180 Vistalube 7 #299
250F 100LBF 2559RPM 36 FILE: vist-11

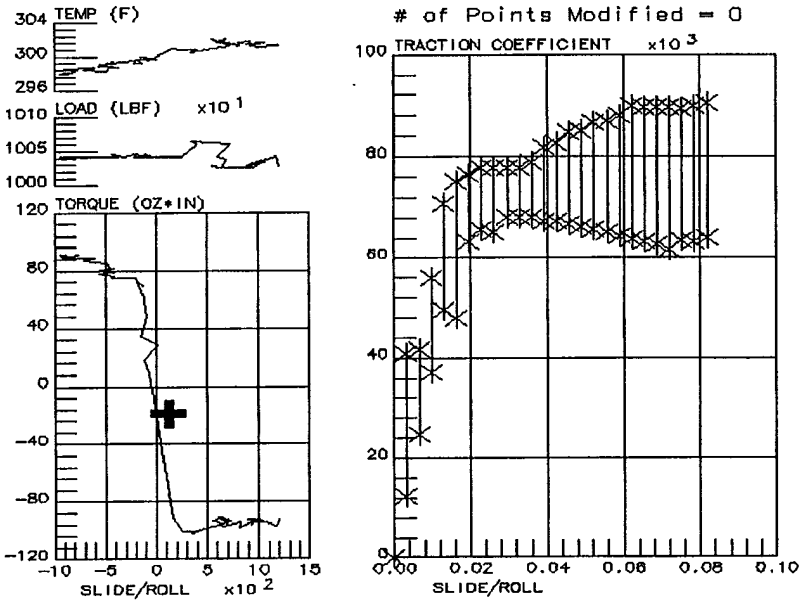


CC 89-180 Vistalube 7 #300
300F 2LBF 76RPM 1 FILE: vist-12

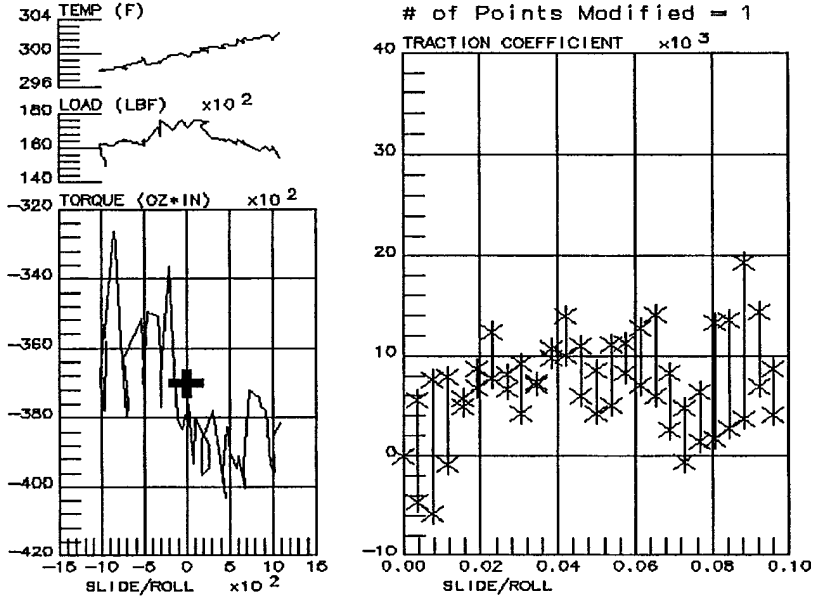



CC 89-180 Vistalube 7
300F 4LBF 76RPM 2 FILE: vist-12
#301
# of Points Modified = 0
TEMP (F)
LOAD (LBF) x10 2
TORQUE (OZ*IN) x10 2
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL
CC 89-180 Vistalube 7
300F 13LBF 76RPM 3 FILE: vist-12
#302
# of Points Modified = 0
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL
CC 89-180 Vistalube 7
300F 30LBF 76RPM 4 FILE: vist-12
#303
# of Points Modified = 0
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL
CC 89-180 Vistalube 7
300F 58LBF 76RPM 5 FILE: vist-12
#304
# of Points Modified = 0
TEMP (F)
LOAD (LBF) x10 1
TORQUE (OZ*IN)
SLIDE/ROLL x10 2
TRACTION COEFFICIENT x10 3
SLIDE/ROLL

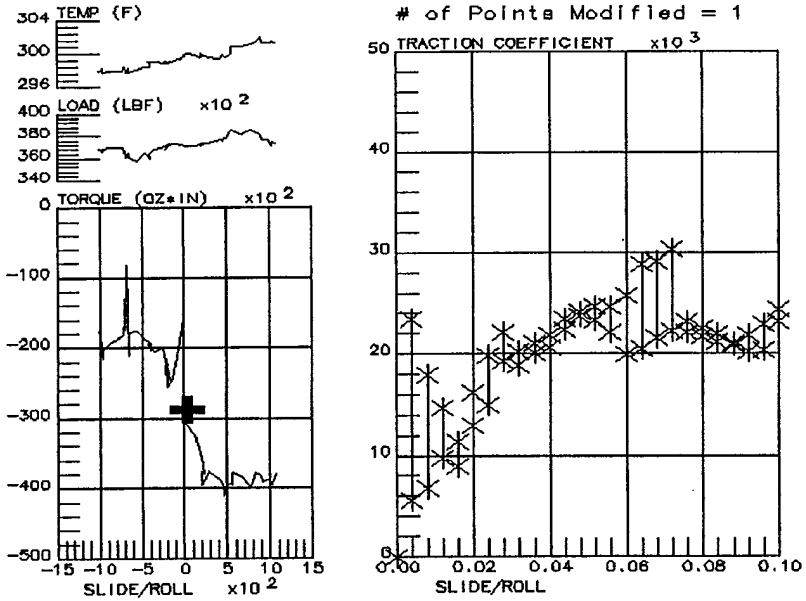
CC 89-180 Vistalube 7 #305
300F 100LBF 76RPM 6 FILE: vist-12



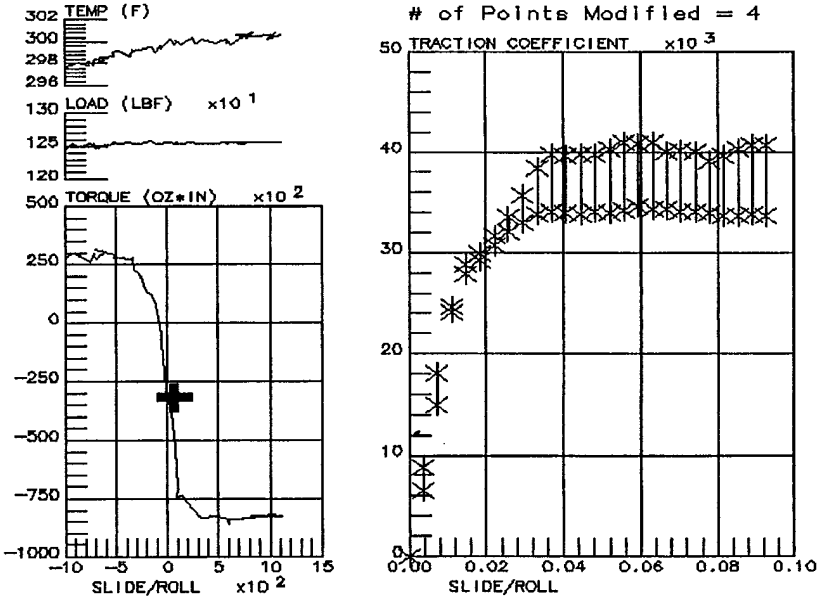
CC 89-180 Vistalube 7 #306
300F 2LBF 152RPM 7 FILE: vist-12



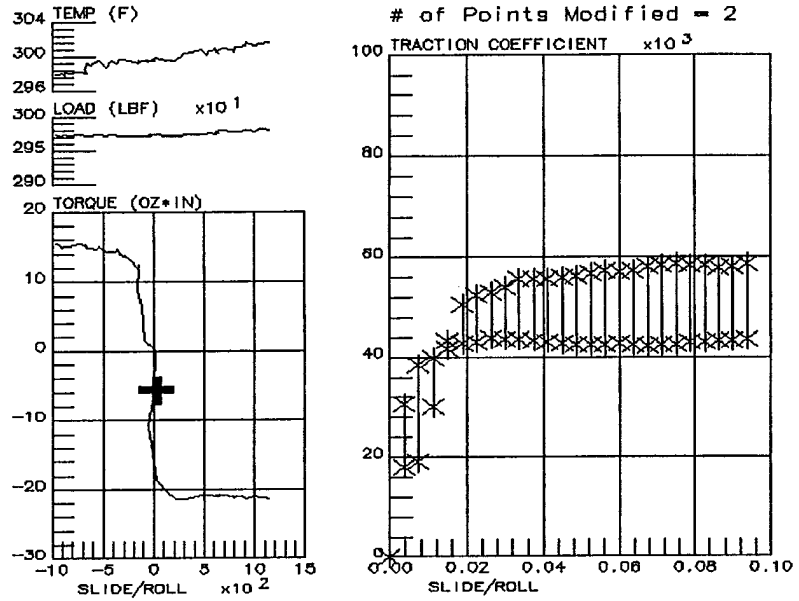
CC 89-180 Vistalube 7 #307
300F 4LBF 152RPM 8 FILE: vist-12



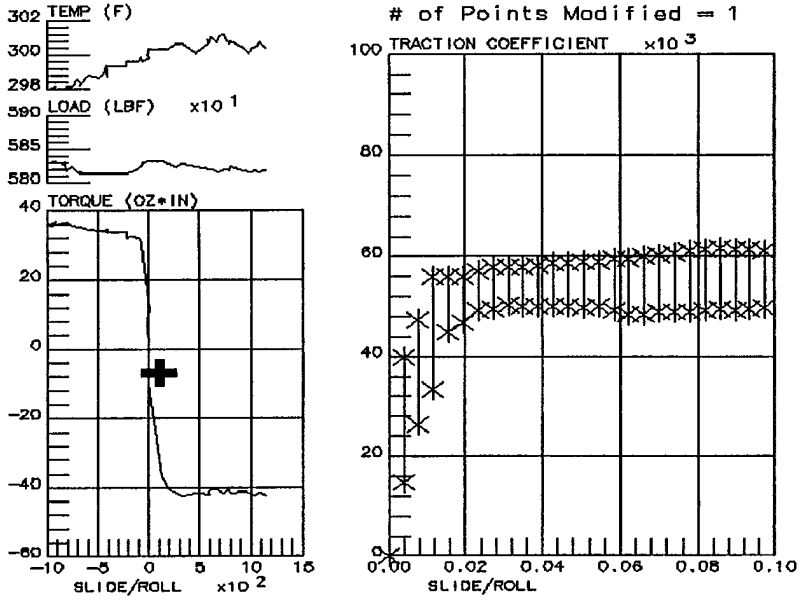
CC 89-180 Vistalube 7 #308
300F 13LBF 152RPM 9 FILE: vist-12



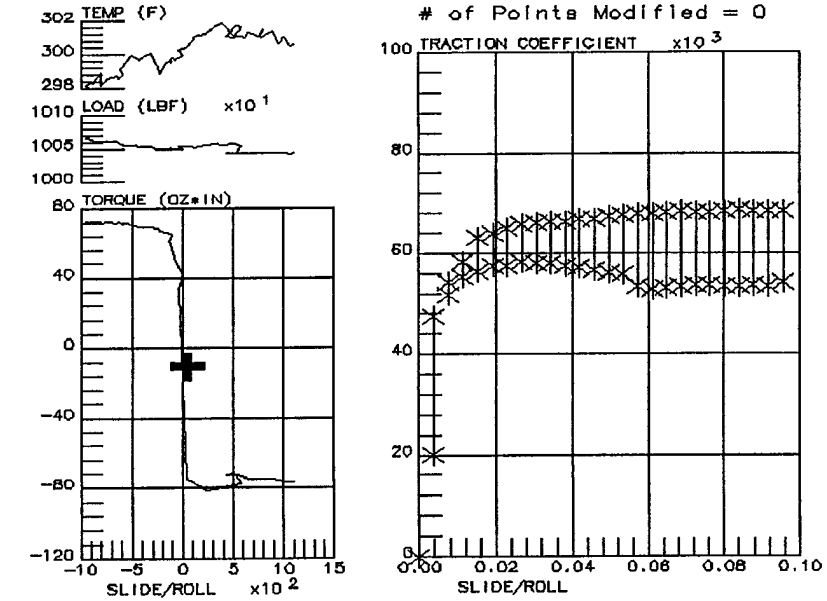
CC 89-180 Vistalube 7 #309
300F 30LBF 152RPM 10 FILE: vist-12



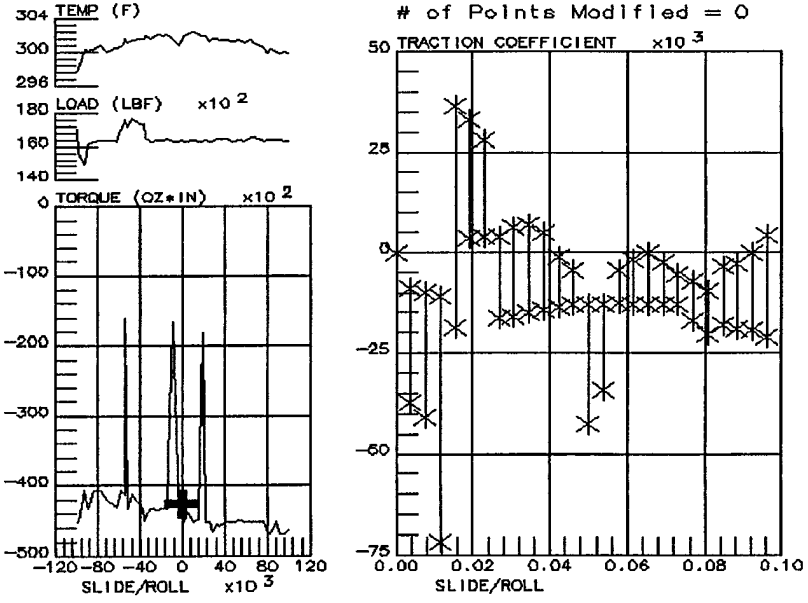
CC 89-180 Vistalube 7 #310
300F 58LBF 152RPM 11 FILE: vist-12



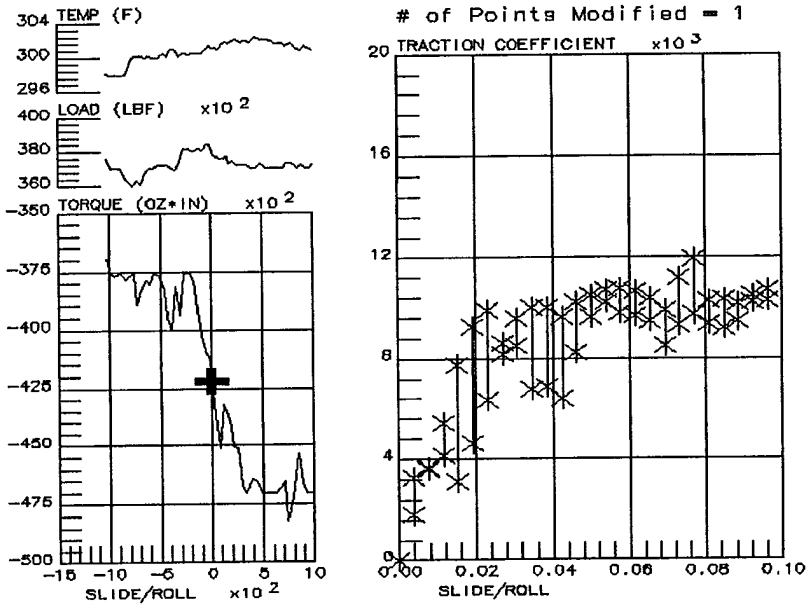
CC 89-180 Vistalube 7 #311
300F 100LBF 152RPM 12 FILE: vist-12



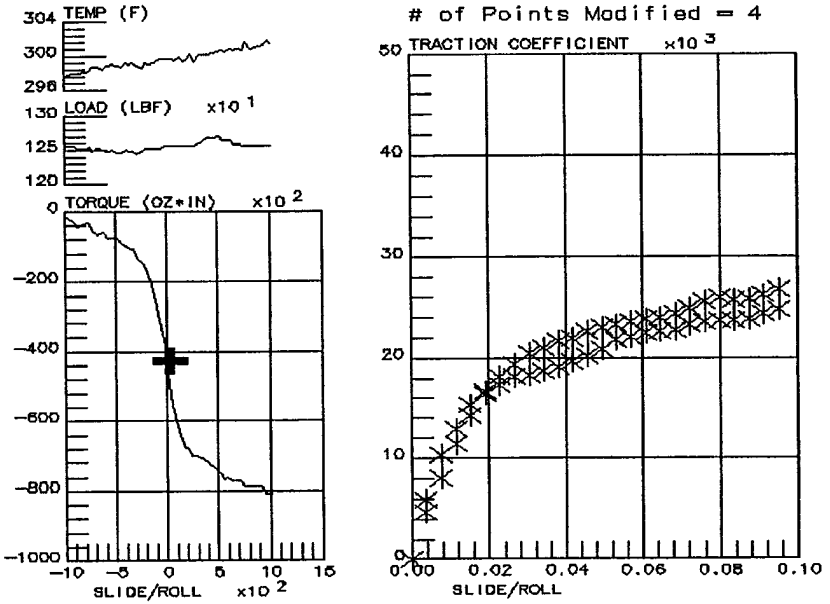
CC 89-180 Vistalube 7 #312
300F 2LBF 343RPM 13 FILE: vist-12



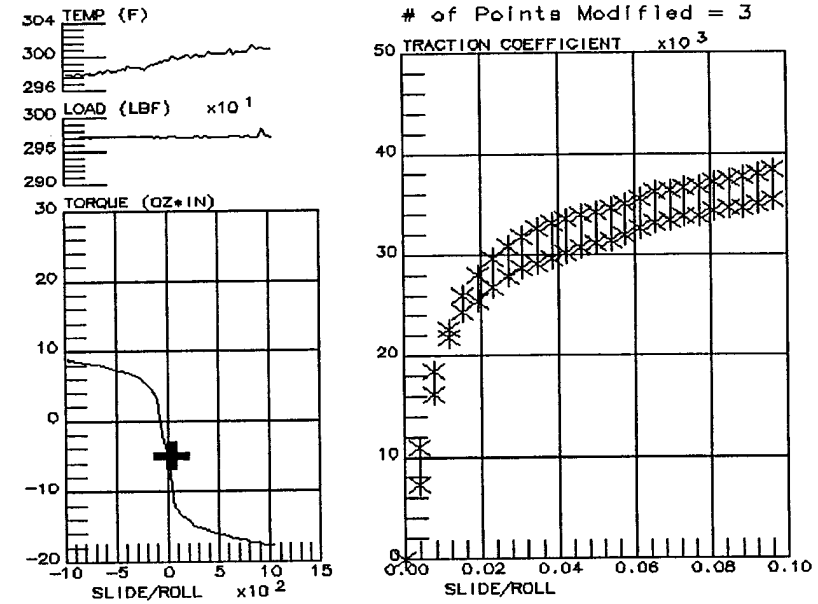
CC 89-180 Vistalube 7 #313
300F 4LBF 343RPM 14 FILE: vist-12



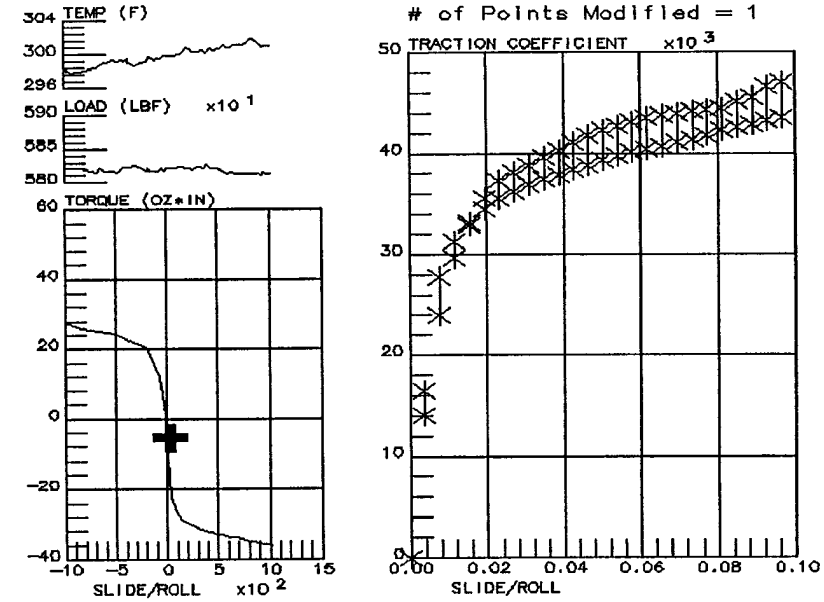
CC 89-180 Vistalube 7 #314
300F 13LBF 343RPM 15 FILE: vist-12



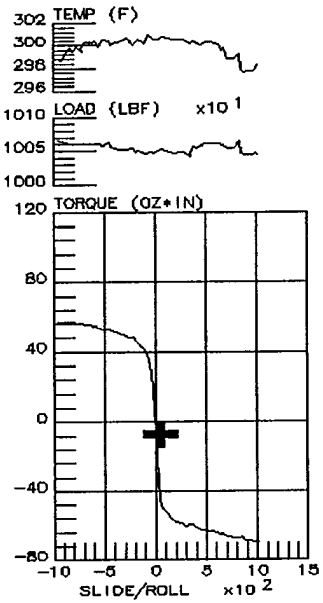
CC 89-180 Vistalube 7 #315
300F 30LBF 343RPM 16 FILE: vist-12



CC 89-180 Vistalube 7 #316
300F 58LBF 343RPM 17 FILE: vist-12



CC 89-180 Vistalube 7 #317
300F 100LBF 343RPM 18 FILE: vist-12



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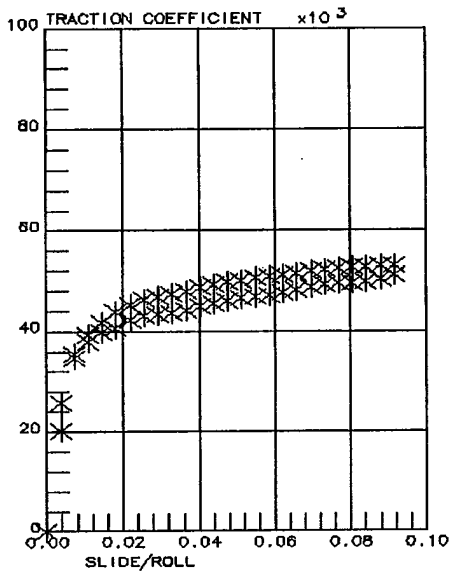
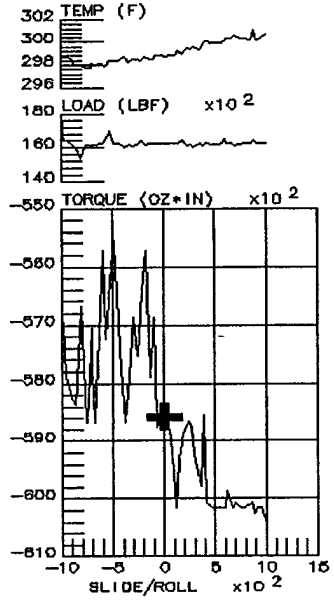
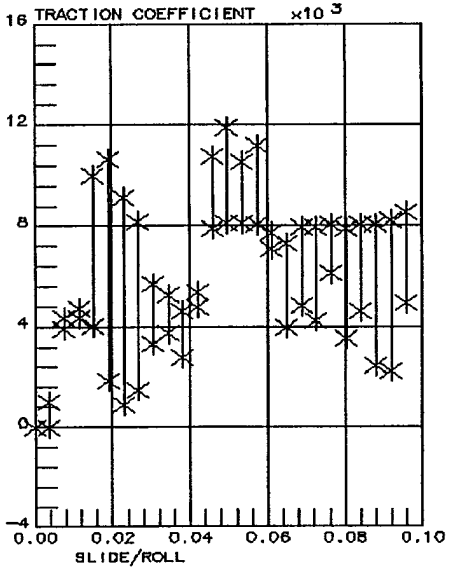


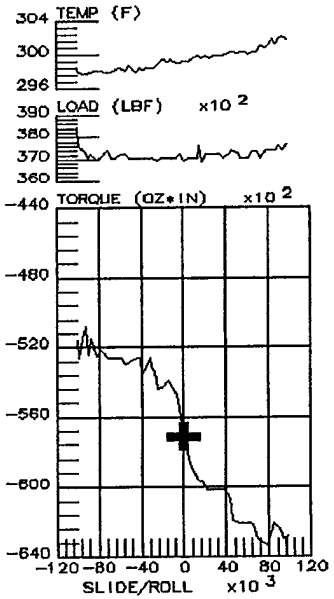
CC 89-180 Vistalube 7 #318
300F 2LBF 650RPM 19 FILE: vist-12



# of Points Modified = 0



CC 89-180 Vistalube 7 #319
300F 4LBF 650RPM 20 FILE: vist-12



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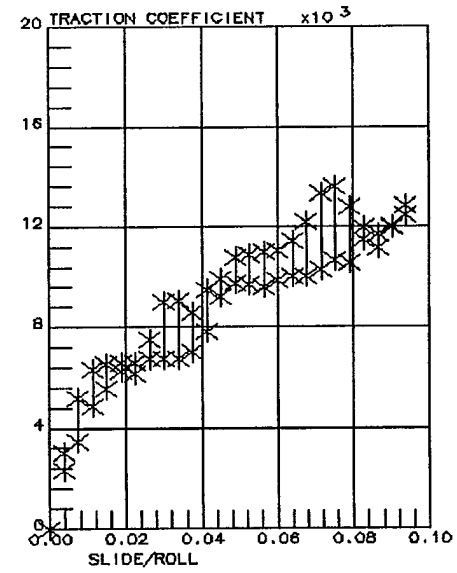
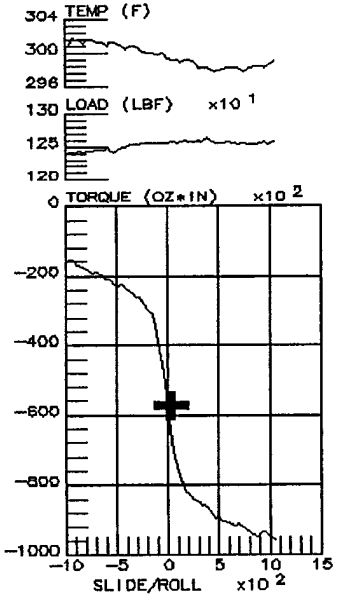


CC 89-180 Vistalube 7 #320
300F 13LBF 650RPM 21 FILE: vist-12



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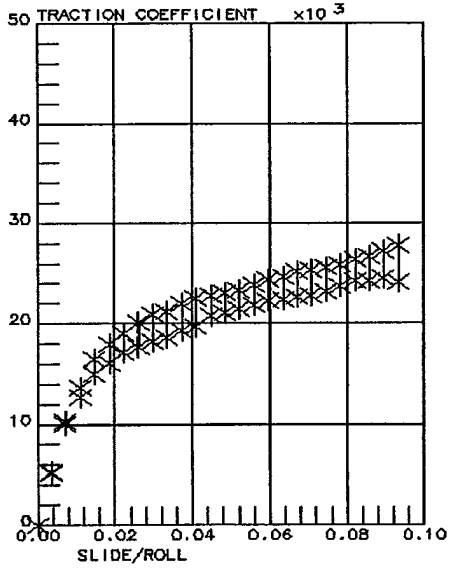
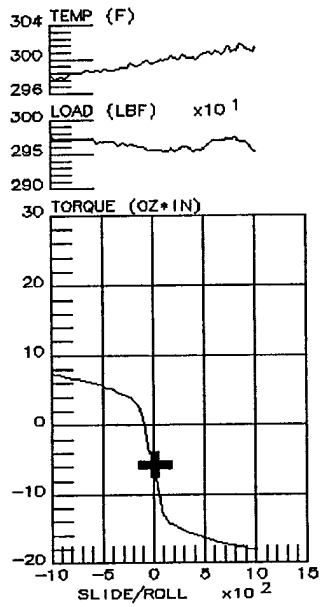


CC 89-180 Vistalube 7 #321
300F 30LBF 650RPM 22 FILE: vist-12



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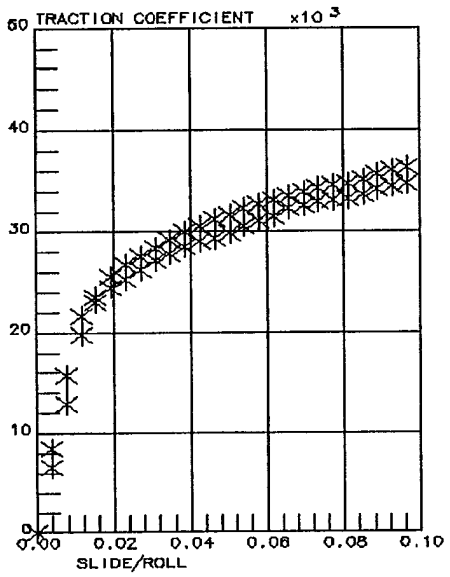
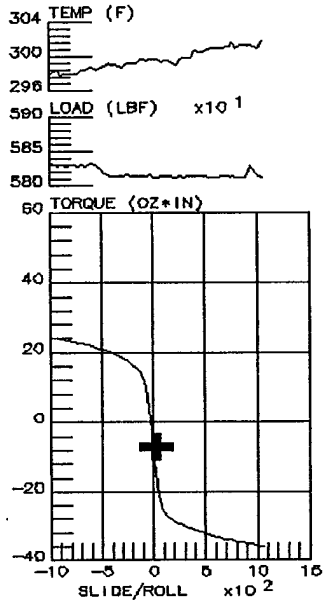


CC 89-180 Vistalube 7 #322
300F 58LBF 650RPM 23 FILE: vist-12



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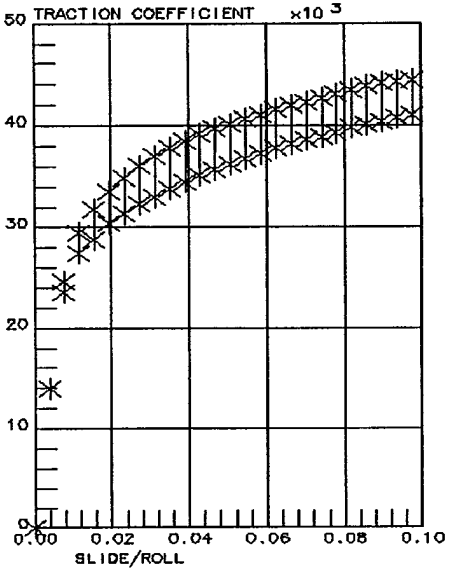
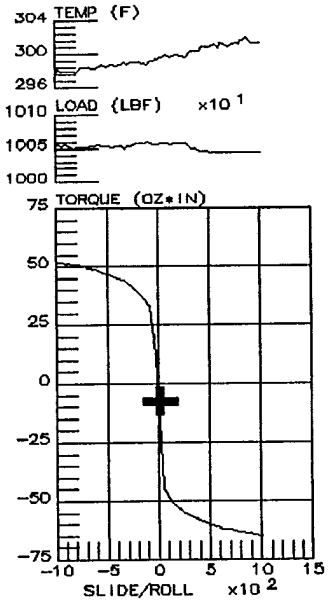


CC 89-180 Vistalube 7 #323
300F 100LBF 650RPM 24 FILE: vist-12



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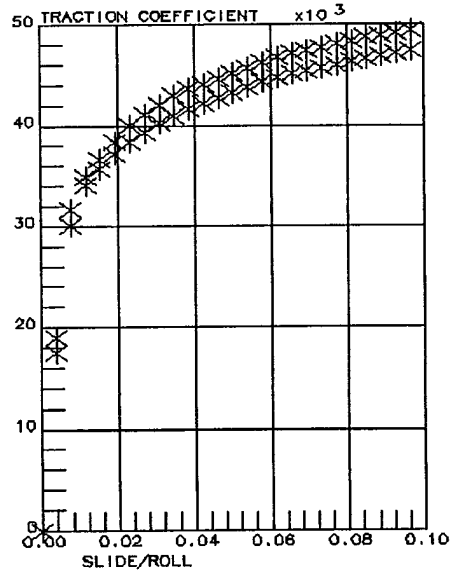
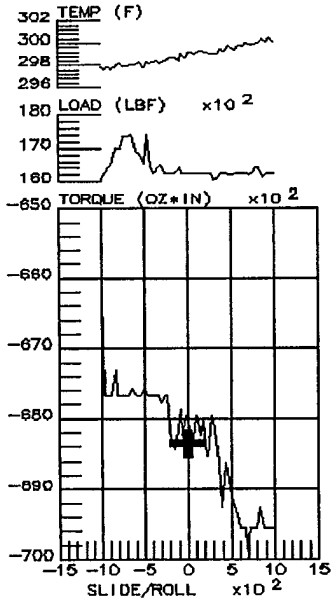


CC 89-180 Vistalube 7 #324
300F 2LBF 1260RPM 25 FILE: vist-12



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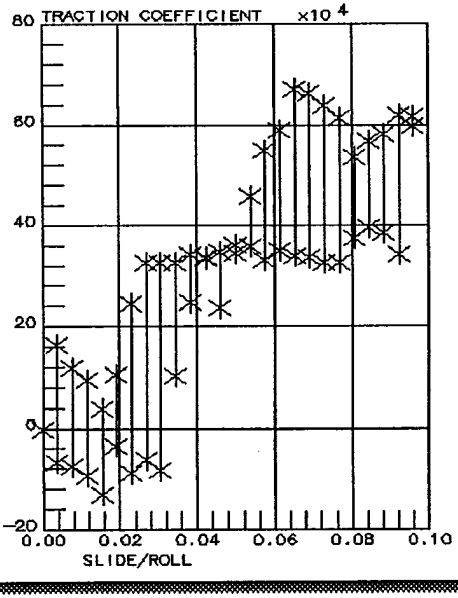
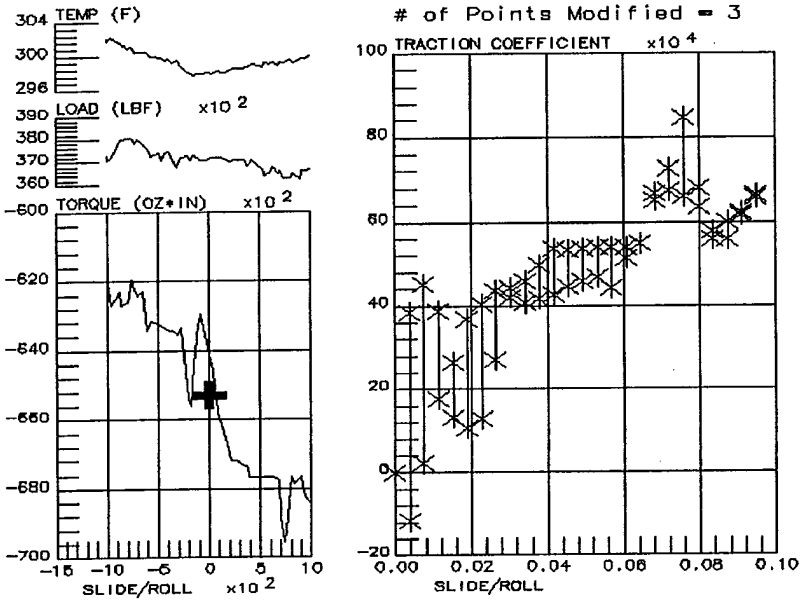
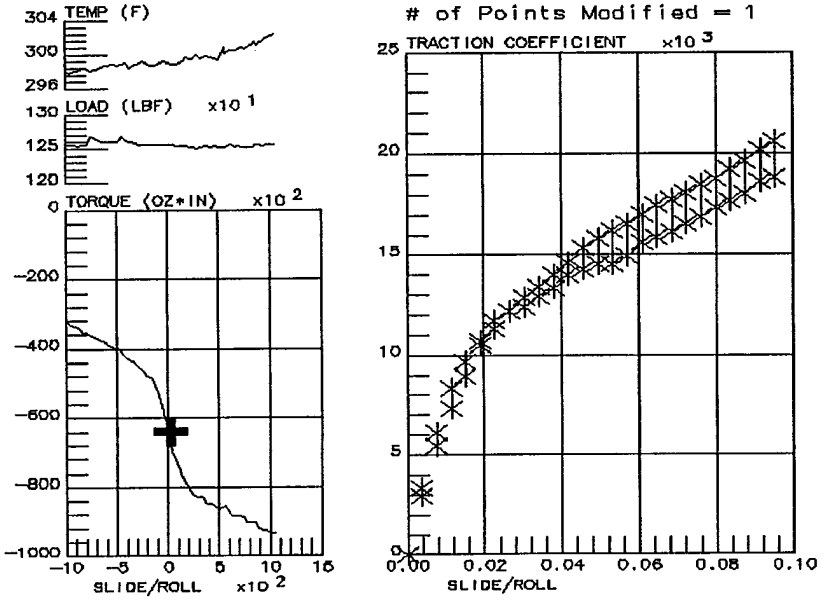


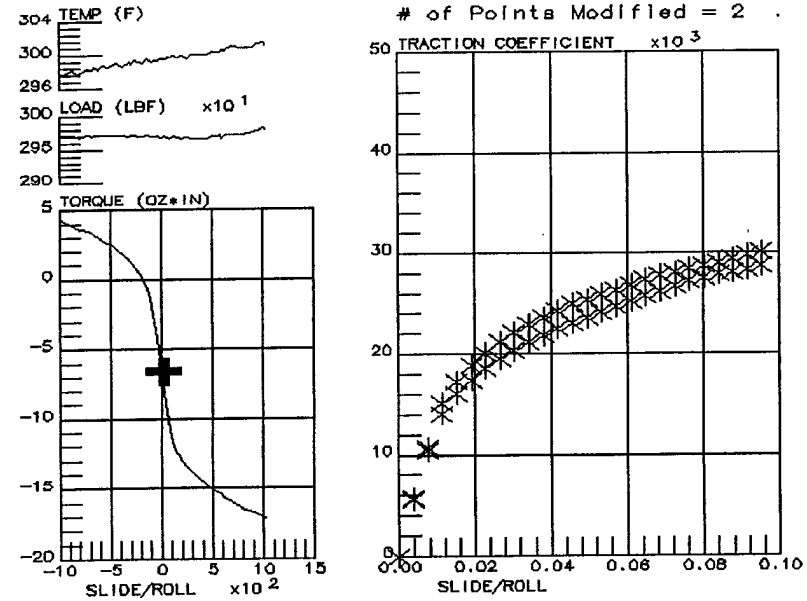
CC 89-180 Vistalube 7 #325
300F 4LBF 1260RPM 26 FILE: vist-12



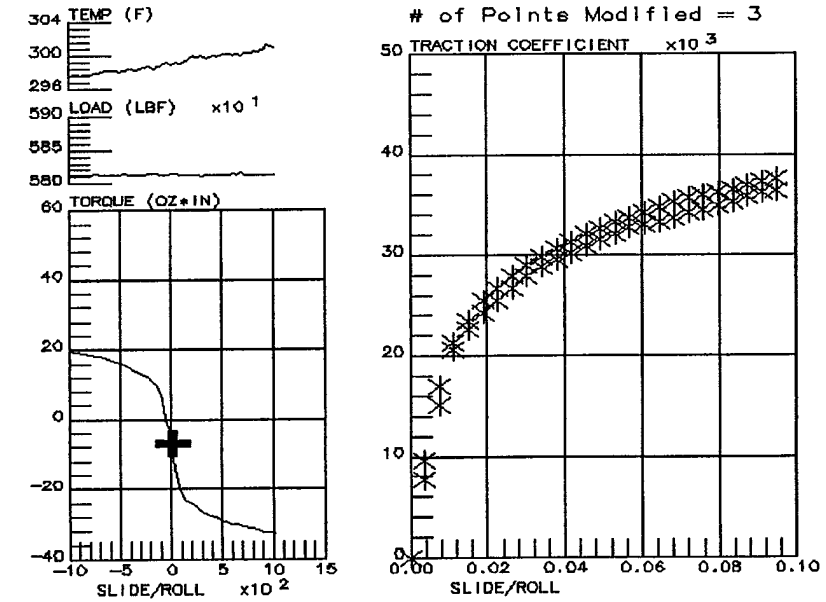
CC 89-180 Vistalube 7 #326
300F 13LBF 1260RPM 27 FILE: vist-12



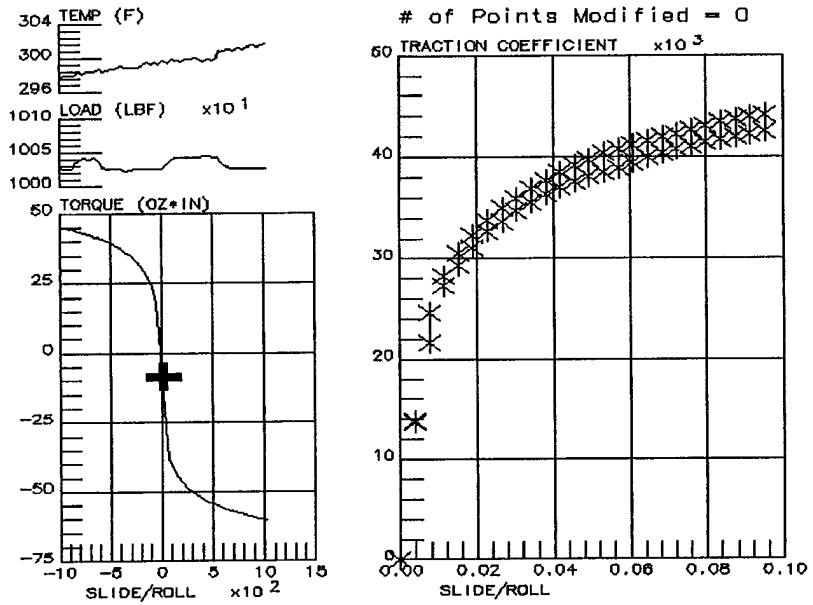
CC 89-180 Vistalube 7 #327
300F 30LBF 1260RPM 28 FILE: vist-12



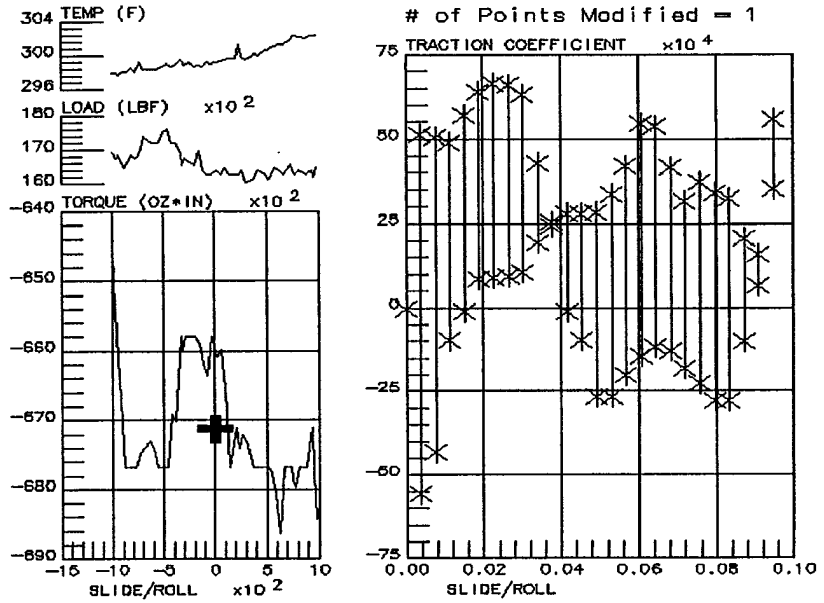
CC 89-180 Vistalube 7 #328
300F 58LBF 1260RPM 29 FILE: vist-12



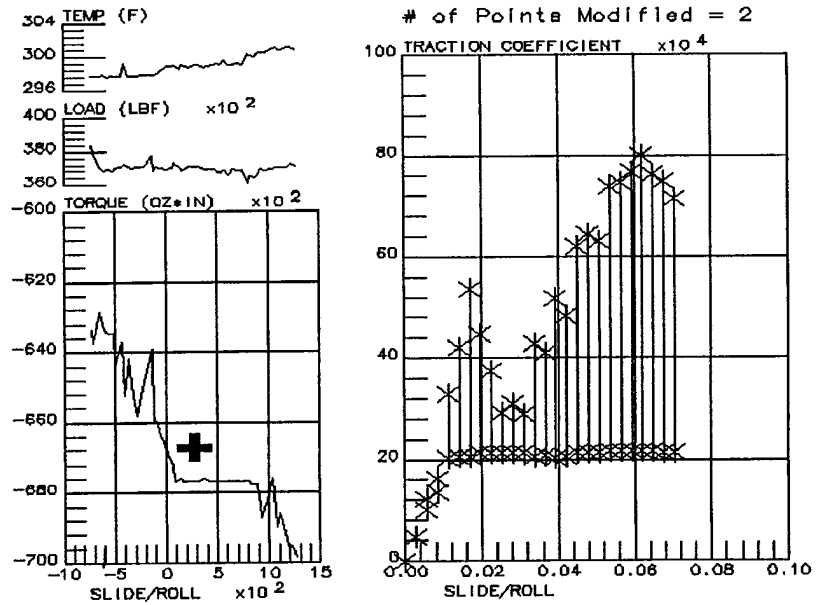
CC 89-180 Vistalube 7 #329
300F 100LBF 1260RPM 30 FILE: vist-12



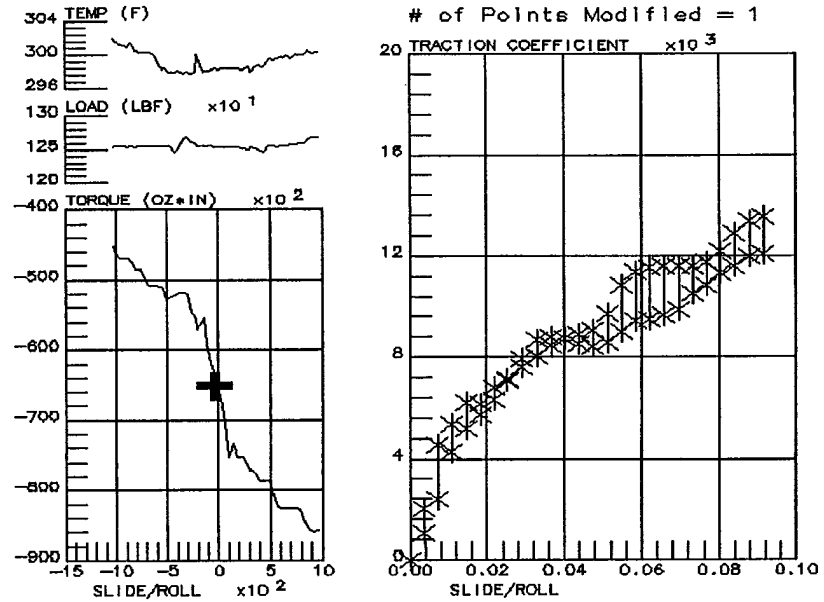
CC 89-180 Vistalube 7 #330
300F 2LBF 2559RPM 31 FILE: vist-12



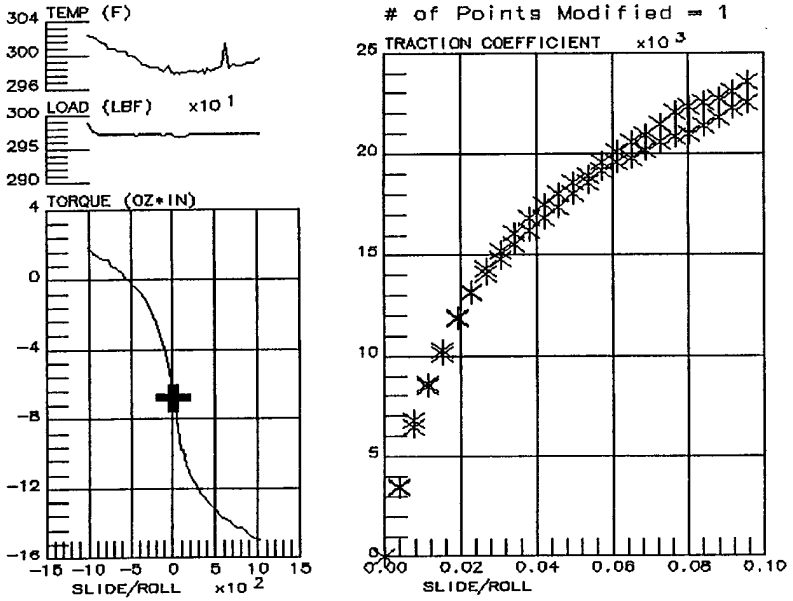
CC 89-180 Vistalube 7 #331
300F 4LBF 2559RPM 32 FILE: vist-12



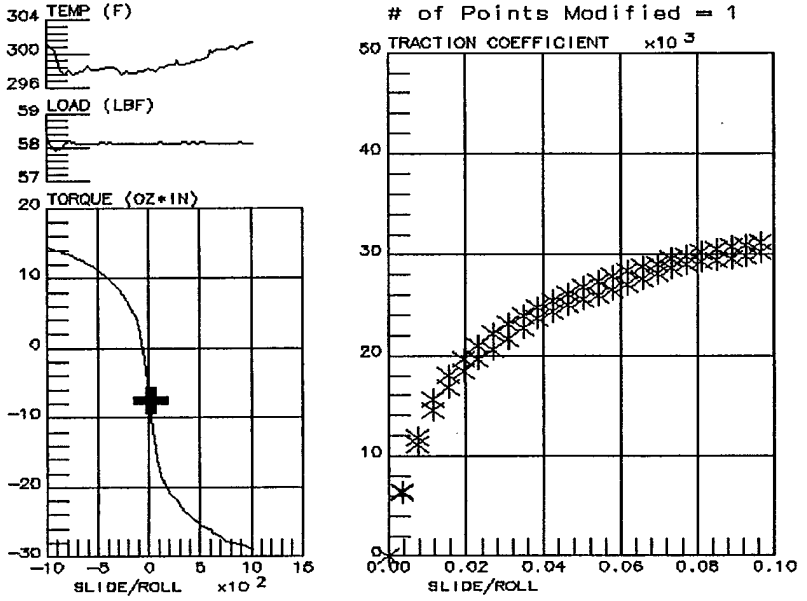
CC 89-180 Vistalube 7 #332
300F 13LBF 2559RPM 33 FILE: vist-12



CC 89-180 Vistalube 7 #333
300F 30LBF 2559RPM 34 FILE: vist-12



CC 89-180 Vistalube 7 #334
300F 58LBF 2559RPM 35 FILE: vist-12



CC 89-180 Vistalube 7 #335
300F 100LBF 2559RPM 36 FILE: vist-12