



Test Monitoring Center

6555 Penn Avenue
Pittsburgh, PA 15206-4489
(412) 365-1000

MEMORANDUM: 06-090

DATE: November 13, 2006

TO: Becky Grinfield,
Chairman, Engine Oil Elastomer Compatibility Surveillance Panel

FROM: Scott Parke

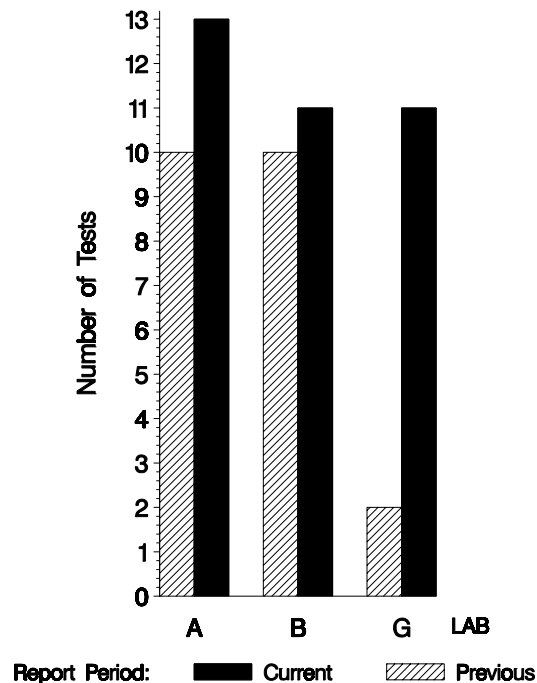
SUBJECT: EOEC Testing from April 1, 2006 through September 30, 2006

A total of 174 EOEC tests were reported to the Test Monitoring Center during the period from April 1, 2006 through September 30, 2006. The data from these tests is shown on page 8. Following is a summary of testing activity this period.

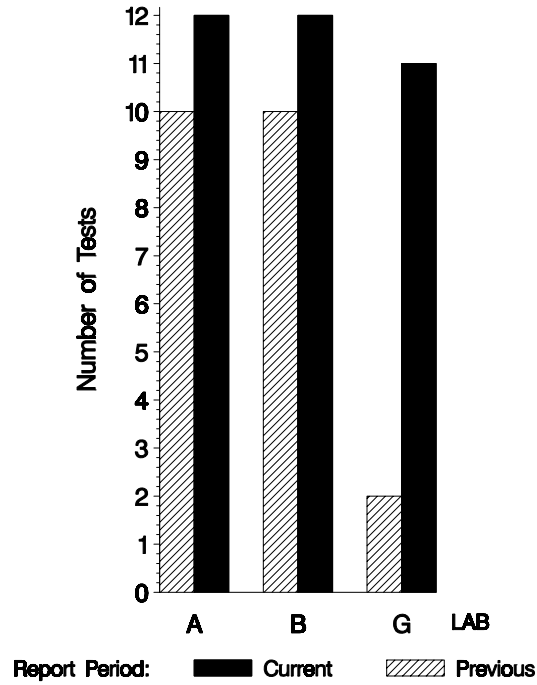
	Reporting Data
Number of Labs	3

Tests reported this period were distributed as shown below:

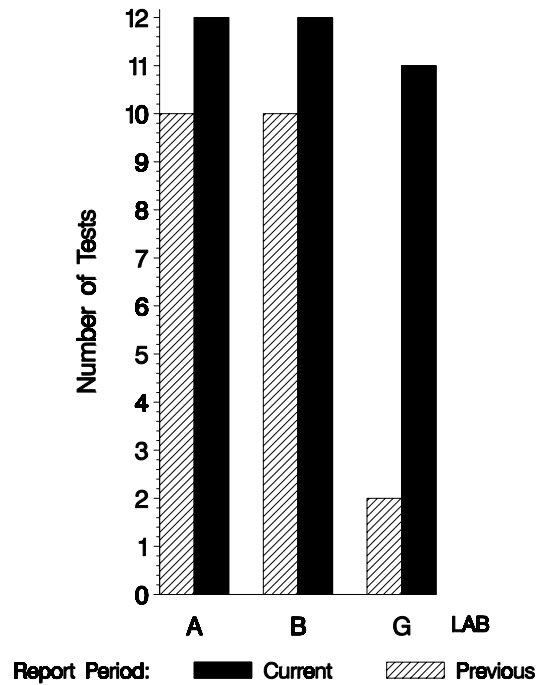
NUMBER OF FLUROELASTOMER TESTS REPORTED BY LAB AND REPORT PERIOD



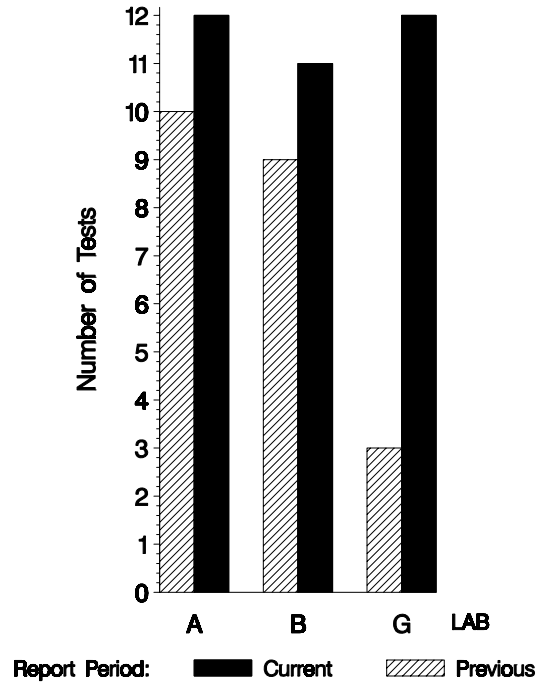
NUMBER OF NITRILE TESTS REPORTED BY LAB AND REPORT PERIOD



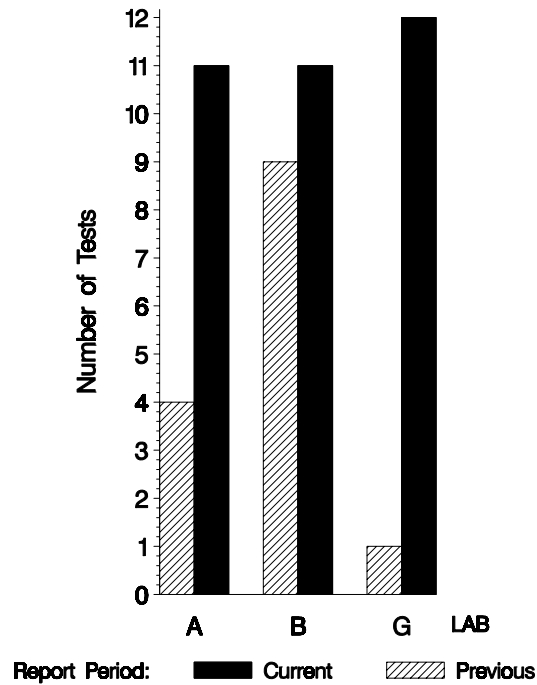
NUMBER OF POLYACRYLATE TESTS REPORTED BY LAB AND REPORT PERIOD



NUMBER OF SILICONE TESTS REPORTED BY LAB AND REPORT PERIOD



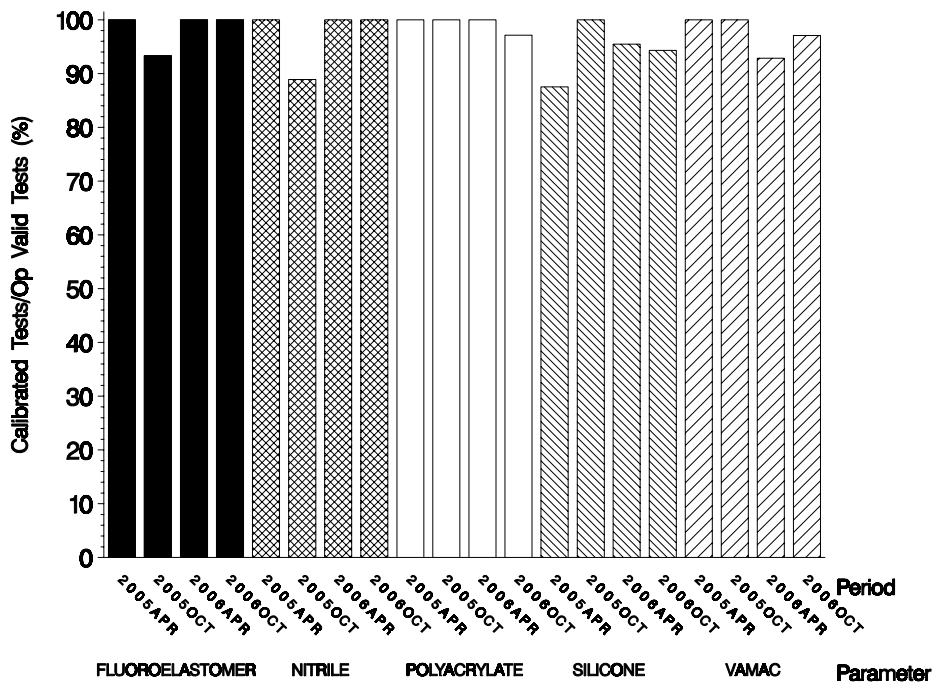
NUMBER OF VAMAC TESTS REPORTED BY LAB AND REPORT PERIOD



Test Distribution by Oil and Validity

								Totals	
		Fluoroelastomer	Nitrile	Polyacrylate	Silicone	VAMAC		Last Period	This Period
Accepted for Calibration	AC	35	35	34	33	33		100	170
Rejected Mild	OC	0	0	0	1	1		2	2
Rejected Severe	OC	0	0	1	1	0		0	2
Operationally Invalid (lab)	LC	0	0	0	0	0		0	0
Operationally Invalid (lab/TMC)	RC	0	0	0	0	0		0	0
Aborted Calibration	XC	0	0	0	0	0		5	0
Total		35	35	35	35	34		107	174

**OPERATIONALLY VALID TESTS
MEETING ACCEPTANCE CRITERIA**



The above chart shows the percentage of accepted operationally valid tests. This period one polyacrylate, two silicone and one VAMAC tests failed to meet the acceptance criteria.

Lost Tests per Start by Lab and Elastomer Type

Lab	Fluoroelastomer			Nitrile			Polyacrylate			Silicone			VAMAC			Total		
	Lost	Starts	%	Lost	Starts	%	Lost	Starts	%	Lost	Starts	%	Lost	Starts	%	Lost	Starts	%
A	0	13	0	0	12	0	0	12	0	0	12	0	0	11	0	0	60	0
B	0	11	0	0	12	0	0	12	0	0	11	0	0	11	0	0	57	0
G	0	11	0	0	11	0	0	11	0	0	12	0	0	12	0	0	57	0
Total	0	35	0	0	35	0	0	35	0	0	35	0	0	34	0	0	174	0

Lost tests are those that were either aborted, rejected by lab, or operationally invalid.

Average Δ 's by Lab						
Elastomer	Lab	n	VOLCYI	HARDYI	TENSYI	ELONYI
Fluoroelastomer						
	A	13	-0.437	0.283	-0.592	-0.965
	B	11	-0.117	0.070	0.175	-0.257
	G	11	1.480	-1.417	0.559	0.894
	Industry	35	0.266	-0.318	0.011	-0.158
Nitrile						
	A	12	-0.080	0.281	-1.349	0.344
	B	12	0.476	1.363	-0.590	0.195
	G	11	0.433	0.032	-0.176	-0.860
	Industry	35	0.272	0.574	-0.720	-0.085
Polyacrylate						
	A	12	-0.407	0.052	-0.433	0.012
	B	12	0.368	0.006	0.107	0.424
	G	11	0.461	-0.020	-0.599	-0.172
	Industry	35	0.132	0.013	-0.300	0.095
Silicone						
	A	12	0.921	-0.569	-0.347	0.018
	B	11	1.256	-0.415	-0.398	1.379
	G	12	0.491	1.271	-1.222	0.050
	Industry	35	0.879	0.110	-0.663	0.457
VAMAC						
	A	11	-0.392	-0.479	1.250	-0.273
		11	0.886	-0.767	1.920	0.415
	B	12	0.939	-1.133	0.500	0.927
	Industry	34	0.491	-0.803	1.202	0.373

DATA FROM ALL OPERATIONALLY VALID TESTS REPORTED THIS PERIOD:**FLUOROELASTOMER**

LTMS DATE	LAB	VOLC	HARD	TENS	ELON	VOLCYI	HARDYI	TENSYI	ELONYI
20060410	G	0.91	4	-64.3	-53.8	2.027	-1.500	0.931	0.544
20060412	B	0.57	9	-72.1	-70.2	-0.270	0.773	-0.527	-1.280
20060412	A	0.45	8	-73.3	-61.1	-1.081	0.318	-0.751	-0.268
20060419	A	0.66	9	-72.5	-66.1	0.338	0.773	-0.602	-0.824
20060427	A	0.64	8	-73.3	-74.5	0.203	0.318	-0.751	-1.759
20060505	B	0.56	9	-68.5	-66.0	-0.338	0.773	0.146	-0.813
20060511	A	0.58	7	-72.8	-71.0	-0.203	-0.136	-0.658	-1.369
20060525	B	0.55	5	-65.2	-60.0	-0.405	-1.045	0.763	-0.146
20060531	A	0.39	8	-72.7	-73.0	-1.486	0.318	-0.639	-1.592
20060605	B	0.60	7	-67.3	-64.0	-0.068	-0.136	0.370	-0.591
20060607	G	0.80	3	-59.0	-52.1	1.284	-1.955	1.921	0.733
20060612	G	0.86	5	-67.8	-53.8	1.689	-1.045	0.277	0.544
20060615	A	0.44	7	-71.1	-72.0	-1.149	-0.136	-0.340	-1.481
20060619	G	0.78	5	-70.9	-60.0	1.149	-1.045	-0.303	-0.146
20060623	B	0.64	6	-69.7	-60.7	0.203	-0.591	-0.079	-0.224
20060628	A	0.50	8	-71.5	-66.1	-0.743	0.318	-0.415	-0.824
20060707	G	0.83	3	-65.6	-53.4	1.486	-1.955	0.688	0.588
20060711	A	0.82	8	-72.4	-65.6	1.419	0.318	-0.583	-0.769
20060718	B	0.52	9	-69.8	-67.7	-0.608	0.773	-0.097	-1.002
20060725	G	0.84	4	-69.3	-53.0	1.554	-1.500	-0.004	0.633
20060729	A	0.62	5	-73.8	-67.2	0.068	-1.045	-0.845	-0.947
20060801	B	0.58	6	-65.2	-60.6	-0.203	-0.591	0.763	-0.212
20060803	G	0.88	4	-75.2	-44.0	1.824	-1.500	-1.107	1.634
20060816	B	0.63	8	-66.5	-56.1	0.135	0.318	0.520	0.288
20060816	A	0.55	9	-72.8	-65.2	-0.405	0.773	-0.658	-0.724
20060818	G	0.89	5	-67.8	-51.5	1.892	-1.045	0.277	0.800
20060828	G	0.85	4	-66.0	-43.6	1.622	-1.500	0.613	1.679
20060831	G	0.70	5	-63.9	-50.8	0.608	-1.045	1.006	0.878
20060902	A	0.47	7	-72.6	-70.3	-0.946	-0.136	-0.621	-1.291
20060914	A	0.46	10	-72.8	-62.9	-1.014	1.227	-0.658	-0.468
20060915	B	0.73	8	-70.8	-58.2	0.811	0.318	-0.284	0.055
20060915	A	0.51	9	-70.2	-60.8	-0.676	0.773	-0.172	-0.235
20060922	B	0.55	8	-70.9	-55.4	-0.405	0.318	-0.303	0.366
20060929	G	0.78	4	-59.4	-41.2	1.149	-1.500	1.847	1.945
20060929	B	0.59	7	-65.8	-52.1	-0.135	-0.136	0.650	0.733

NITRILE

LTMS DATE	LAB	VOLC	HARD	TENS	ELON	VOLCYI	HARDYI	TENSYI	ELONYI
20060410	G	0.84	0	-25.4	-53.8	0.143	-0.944	0.282	-0.437
20060410	A	0.58	1	-33.8	-43.3	-0.167	-0.379	-0.864	1.125
20060412	B	1.24	5	-32.7	-52.7	0.619	1.881	-0.714	-0.274
20060417	A	0.67	1	-33.5	-49.9	-0.060	-0.379	-0.823	0.143
20060426	A	1.00	2	-37.1	-47.5	0.333	0.186	-1.314	0.500
20060504	B	1.65	4	-23.3	-49.5	1.107	1.316	0.569	0.202
20060509	A	0.84	2	-33.8	-40.8	0.143	0.186	-0.864	1.497
20060524	B	1.00	2	-33.1	-55.8	0.333	0.186	-0.768	-0.735
20060529	A	0.44	0	-34.4	-47.1	-0.333	-0.944	-0.945	0.560
20060606	G	0.81	0	-40.6	-57.2	0.107	-0.944	-1.791	-0.943
20060607	B	1.29	3	-26.8	-39.3	0.679	0.751	0.091	1.720
20060612	G	0.68	1	-33.6	-56.4	-0.048	-0.379	-0.836	-0.824
20060613	A	0.58	2	-39.1	-46.8	-0.167	0.186	-1.587	0.604
20060621	B	0.99	3	-34.8	-54.7	0.321	0.751	-1.000	-0.571
20060626	A	0.68	2	-36.5	-49.4	-0.048	0.186	-1.232	0.217
20060706	G	1.26	2	-39.4	-63.8	0.643	0.186	-1.628	-1.926
20060710	A	0.94	3	-42.6	-53.5	0.262	0.751	-2.064	-0.393
20060712	G	1.43	2	-41.9	-57.9	0.845	0.186	-1.969	-1.048
20060714	B	1.78	6	-35.5	-55.5	1.262	2.446	-1.095	-0.690
20060727	G	1.32	2	-14.4	-51.9	0.714	0.186	1.783	-0.155
20060727	A	0.23	4	-32.9	-45.8	-0.583	1.316	-0.741	0.753
20060731	B	1.00	4	-31.6	-47.8	0.333	1.316	-0.563	0.455
20060802	B	0.55	4	-32.3	-56.7	-0.202	1.316	-0.659	-0.869
20060802	G	0.88	2	-35.0	-58.5	0.190	0.186	-1.027	-1.137
20060814	A	0.66	1	-36.4	-48.0	-0.071	-0.379	-1.218	0.426
20060816	G	1.24	2	-29.6	-62.1	0.619	0.186	-0.291	-1.673
20060817	B	0.87	6	-28.6	-45.0	0.179	2.446	-0.154	0.872
20060824	G	1.17	2	-13.6	-51.2	0.536	0.186	1.892	-0.051
20060831	G	1.11	3	-27.3	-58.2	0.464	0.751	0.023	-1.092
20060904	A	0.55	3	-40.0	-51.5	-0.202	0.751	-1.709	-0.095
20060913	B	1.16	4	-30.0	-41.2	0.524	1.316	-0.345	1.437
20060919	A	0.66	5	-48.2	-59.0	-0.071	1.881	-2.828	-1.211
20060925	B	1.06	4	-38.9	-53.6	0.405	1.316	-1.559	-0.408
20060927	G	1.18	3	-15.6	-52.0	0.548	0.751	1.619	-0.170
20060928	B	0.85	4	-33.9	-42.8	0.155	1.316	-0.877	1.199

POLYACRYLATE

LTMS DATE	LAB	VOLC	HARD	TENS	ELON	VOLCYI	HARDYI	TENSYI	ELONYI
20060410	G	0.62	-3	21.1	-22.0	-0.289	-0.828	2.520	-0.440
20060411	A	0.08	-3	-2.9	-27.0	-1.000	-0.828	-0.465	-0.999
20060412	B	-0.09	-3	6.0	-11.3	-1.224	-0.828	0.637	0.754
20060418	A	-0.16	-5	6.0	-25.4	-1.316	-1.939	0.642	-0.820
20060426	A	0.12	-3	6.3	-21.3	-0.947	-0.828	0.679	-0.361
20060504	B	1.23	-1	-0.3	-26.6	0.513	0.283	-0.136	-0.957
20060510	A	-0.36	-1	-12.0	-18.6	-1.579	0.283	-1.597	-0.059
20060522	B	1.15	0	0.1	-12.7	0.408	0.839	-0.087	0.604
20060530	A	1.14	-1	12.3	-18.6	0.395	0.283	1.425	-0.059
20060607	G	0.62	-4	-6.3	-13.8	-0.289	-1.383	-0.888	0.478
20060608	B	-0.07	-5	-3.9	-2.8	-1.197	-1.939	-0.583	1.710
20060612	G	0.38	-3	-3.4	-16.8	-0.605	-0.828	-0.527	0.142
20060614	A	0.77	-1	-2.4	-8.6	-0.092	0.283	-0.403	1.059
20060622	B	1.53	-2	3.5	-20.1	0.908	-0.272	0.331	-0.224
20060627	A	-0.36	1	-7.6	-26.2	-1.579	1.394	-1.050	-0.909
20060705	G	1.73	0	-11.1	-24.3	1.171	0.839	-1.485	-0.697
20060710	A	1.04	-2	-1.7	-18.3	0.263	-0.272	-0.316	-0.026
20060719	B	1.39	1	-1.5	-16.0	0.724	1.394	-0.296	0.235
20060724	G	1.39	-1	6.1	-32.4	0.724	0.283	0.654	-1.603
20060727	G	1.58	-1	-5.3	-15.0	0.974	0.283	-0.764	0.343
20060728	A	1.02	-1	-11.0	-14.4	0.237	0.283	-1.473	0.411
20060731	B	2.22	-3	0.0	-19.8	1.816	-0.828	-0.108	-0.188
20060802	G	1.53	-1	-6.4	-25.9	0.908	0.283	-0.900	-0.876
20060804	B	1.23	-2	-2.8	-24.3	0.513	-0.272	-0.456	-0.696
20060813	G	1.30	0	-20.2	-11.7	0.605	0.839	-2.617	0.713
20060815	A	1.00	0	-2.6	-12.3	0.211	0.839	-0.428	0.645
20060818	B	1.36	-1	3.4	-19.0	0.684	0.283	0.317	-0.106
20060829	G	1.64	-1	-5.6	-24.9	1.053	0.283	-0.801	-0.764
20060829	G	0.86	-1	-3.6	-9.3	0.026	0.283	-0.552	0.981
20060905	A	1.16	-1	-6.4	-19.1	0.421	0.283	-0.900	-0.115
20060915	B	1.11	-1	5.3	12.4	0.355	0.283	0.549	3.407
20060920	A	0.92	0	-9.7	-5.7	0.105	0.839	-1.311	1.384
20060922	B	1.14	0	10.3	-17.2	0.395	0.839	1.174	0.100
20060927	G	1.44	-2	-9.0	-19.6	0.789	-0.272	-1.224	-0.171
20060929	B	1.24	-1	0.4	-14.1	0.526	0.283	-0.051	0.447

SILICONE

LTMS DATE	LAB	VOLC	HARD	TENS	ELON	VOLCYI	HARDYI	TENSYI	ELONYI
20060410	G	27.40	-16	-35.1	-28.3	0.449	1.063	-5.035	-0.727
20060412	B	29.52	-20	-20.6	-16.3	1.383	-0.604	-1.639	1.000
20060413	A	26.96	-19	-11.7	-15.0	0.256	-0.187	0.445	1.187
20060420	A	27.48	-20	-12.5	-26.5	0.485	-0.604	0.258	-0.468
20060427	A	27.23	-21	-14.1	-15.4	0.374	-1.021	-0.117	1.129
20060503	G	27.33	-16	-14.4	-20.0	0.419	1.063	-0.187	0.468
20060505	B	29.53	-21	-16.2	-10.2	1.388	-1.021	-0.609	1.878
20060513	A	29.80	-20	-12.4	-20.2	1.507	-0.604	0.281	0.439
20060523	B	29.38	-21	-12.0	6.4	1.322	-1.021	0.375	4.266
20060601	A	28.82	-21	-14.9	-25.9	1.075	-1.021	-0.304	-0.381
20060606	B	28.79	-19	-15.3	-19.6	1.062	-0.187	-0.398	0.525
20060607	G	27.56	-15	-15.0	-10.7	0.520	1.479	-0.328	1.806
20060608	B	28.91	-19	-9.2	-3.7	1.115	-0.187	1.030	2.813
20060613	G	25.90	-15	-20.6	-10.3	-0.211	1.479	-1.639	1.863
20060616	A	28.38	-19	-13.3	-22.0	0.881	-0.187	0.070	0.180
20060620	B	29.29	-20	-12.1	-21.8	1.282	-0.604	0.351	0.209
20060620	G	29.64	-16	-20.0	-30.8	1.436	1.063	-1.499	-1.086
20060629	A	29.22	-21	-11.5	-23.4	1.251	-1.021	0.492	-0.022
20060708	G	28.42	-16	-14.2	-29.7	0.899	1.063	-0.141	-0.928
20060713	A	29.39	-19	-14.7	-22.9	1.326	-0.187	-0.258	0.050
20060720	B	29.48	-18	-13.0	-26.5	1.366	0.229	0.141	-0.468
20060726	G	28.66	-16	-20.4	-28.7	1.004	1.063	-1.593	-0.784
20060730	A	29.93	-20	-23.1	-36.4	1.564	-0.604	-2.225	-1.892
20060804	G	28.05	-16	-20.5	-19.3	0.736	1.063	-1.616	0.568
20060807	B	28.87	-20	-20.7	-8.6	1.097	-0.604	-1.663	2.108
20060816	G	27.10	-16	-16.8	-21.4	0.317	1.063	-0.749	0.266
20060817	A	28.56	-21	-18.5	-27.4	0.960	-1.021	-1.148	-0.597
20060821	B	29.18	-19	-16.7	-34.6	1.233	-0.187	-0.726	-1.633
20060828	G	26.95	-15	-17.7	-29.7	0.251	1.479	-0.960	-0.928
20060829	G	28.04	-14	-18.9	-24.9	0.731	1.896	-1.241	-0.237
20060906	A	27.34	-18	-14.5	-23.5	0.423	0.229	-0.211	-0.036
20060914	B	29.46	-19	-14.1	-10.0	1.357	-0.187	-0.117	1.906
20060921	A	28.53	-20	-19.8	-18.9	0.947	-0.604	-1.452	0.626
20060925	B	29.13	-19	-18.4	-5.4	1.211	-0.187	-1.124	2.568
20060928	G	24.89	-15	-12.2	-21.0	-0.656	1.479	0.328	0.324

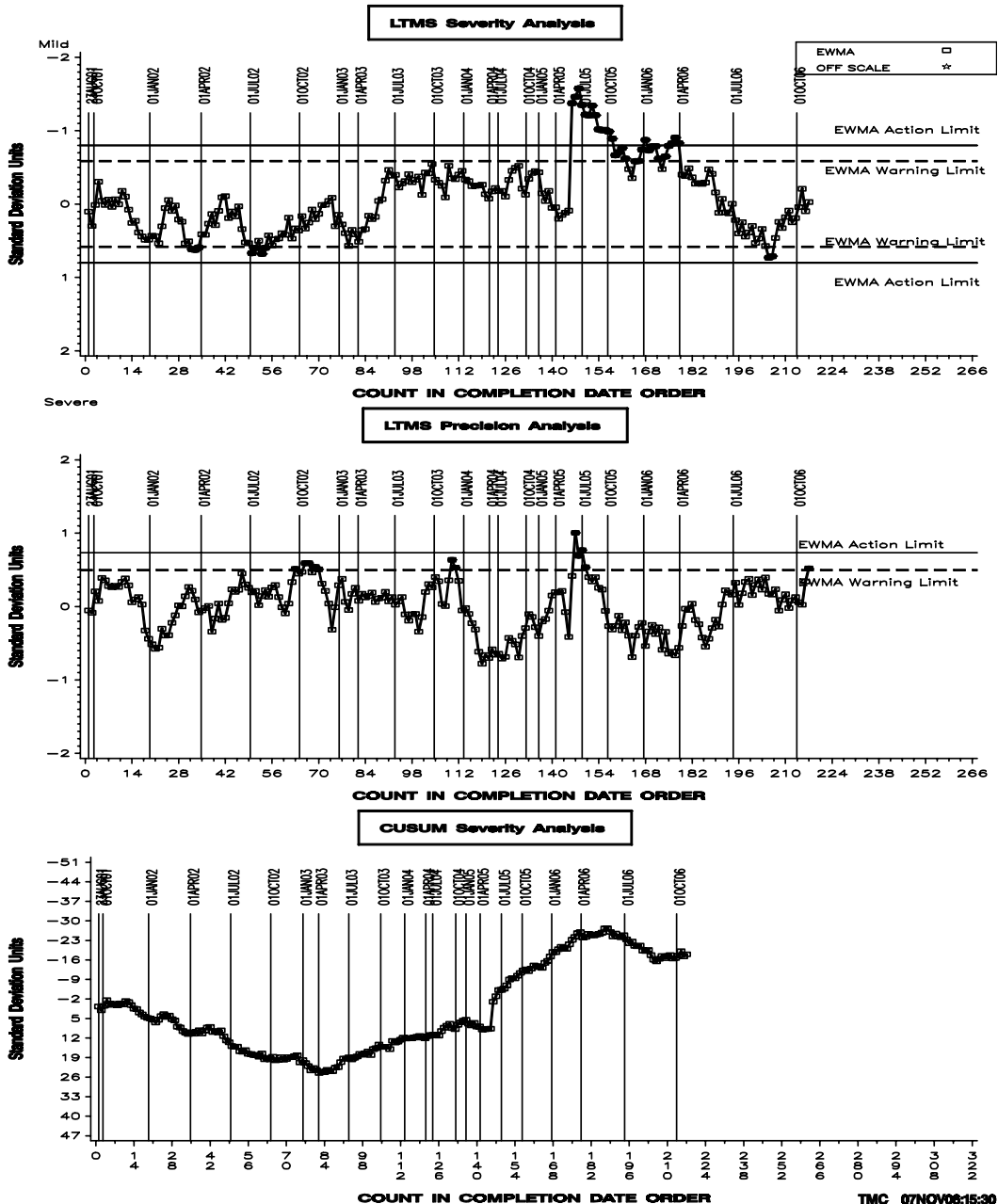
VAMAC

LTMS DATE	LAB	VOLC	HARD	TENS	ELON	VOLCYI	HARDYI	TENSYI	ELONYI
20060410	G	17.20	-8	-20.9	-22.6	-0.265	0.095	0.392	0.368
20060413	B	19.95	-10	-7.2	-21.5	0.910	-2.011	2.419	0.458
20060414	A	16.26	-8	-17.8	-28.0	-0.667	0.095	0.851	-0.072
20060428	A	16.10	-8	-14.8	-26.6	-0.735	0.095	1.294	0.042
20060504	B	20.26	-9	-17.1	-28.3	1.043	-0.958	0.954	-0.096
20060514	A	15.17	-8	-17.8	-34.8	-1.132	0.095	0.851	-0.625
20060519	B	19.63	-10	-9.1	-26.2	0.774	-2.011	2.138	0.075
20060602	A	14.64	-9	-9.2	-22.7	-1.359	-0.958	2.123	0.360
20060607	G	17.07	-8	-27.1	-22.0	-0.321	0.095	-0.525	0.417
20060609	B	19.62	-9	-14.8	-9.7	0.769	-0.958	1.294	1.419
20060612	G	17.06	-9	-20.2	-28.7	-0.325	-0.958	0.496	-0.129
20060619	A	14.88	-8	-20.6	-45.2	-1.256	0.095	0.436	-1.472
20060620	G	17.20	-8	-12.3	-34.4	-0.265	0.095	1.664	-0.593
20060627	B	19.01	-8	-10.2	-25.8	0.509	0.095	1.975	0.107
20060630	A	15.59	-8	-16.5	-38.2	-0.953	0.095	1.043	-0.902
20060708	G	21.47	-10	-13.0	-3.6	1.560	-2.011	1.561	1.915
20060714	A	19.34	-9	-6.0	-20.4	0.650	-0.958	2.596	0.547
20060721	B	19.45	-6	-10.6	-23.7	0.697	2.200	1.916	0.279
20060726	G	21.43	-10	-22.3	-11.3	1.543	-2.011	0.185	1.288
20060731	A	15.16	-8	-17.4	-44.9	-1.137	0.095	0.910	-1.448
20060803	B	19.64	-9	-8.4	-25.0	0.778	-0.958	2.241	0.173
20060803	G	21.14	-10	-17.0	-14.4	1.419	-2.011	0.969	1.036
20060816	G	22.21	-11	-28.3	-11.0	1.876	-3.063	-0.703	1.313
20060818	A	20.60	-10	-10.5	-28.1	1.188	-2.011	1.930	-0.080
20060821	B	19.86	-9	-7.6	-14.7	0.872	-0.958	2.359	1.011
20060824	B	20.42	-9	-12.6	-39.6	1.111	-0.958	1.620	-1.016
20060830	G	21.74	-9	-22.9	-8.0	1.675	-0.958	0.096	1.557
20060831	G	21.77	-9	-25.4	-6.7	1.688	-0.958	-0.274	1.663
20060908	G	20.46	-8	-21.0	-11.6	1.128	0.095	0.377	1.264
20060908	A	19.15	-9	-12.5	-17.9	0.568	-0.958	1.635	0.751
20060914	B	20.03	-9	-10.4	-23.7	0.944	-0.958	1.945	0.279
20060921	B	20.95	-9	-8.3	-4.1	1.338	-0.958	2.256	1.875
20060925	A	19.03	-9	-23.0	-28.4	0.517	-0.958	0.081	-0.104
20060928	G	21.45	-10	-11.6	-14.5	1.551	-2.011	1.768	1.028

LTMS CONTROL CHARTS

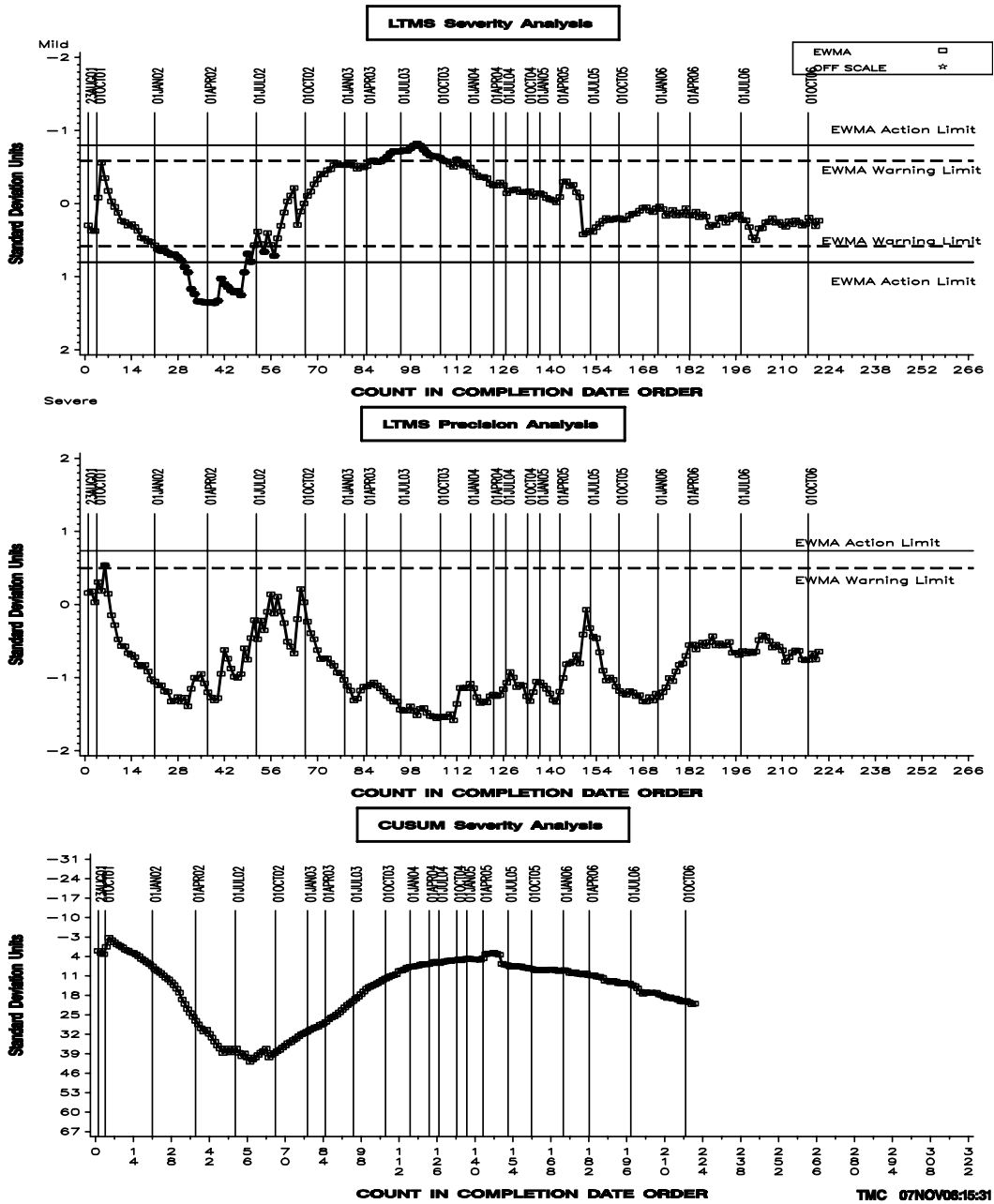
EOEC – FLUROELASTOMER INDUSTRY OPERATIONALLY VALID DATA

REFERENCE FLUROELASTOMER VOLUME CHANGE AVERAGE



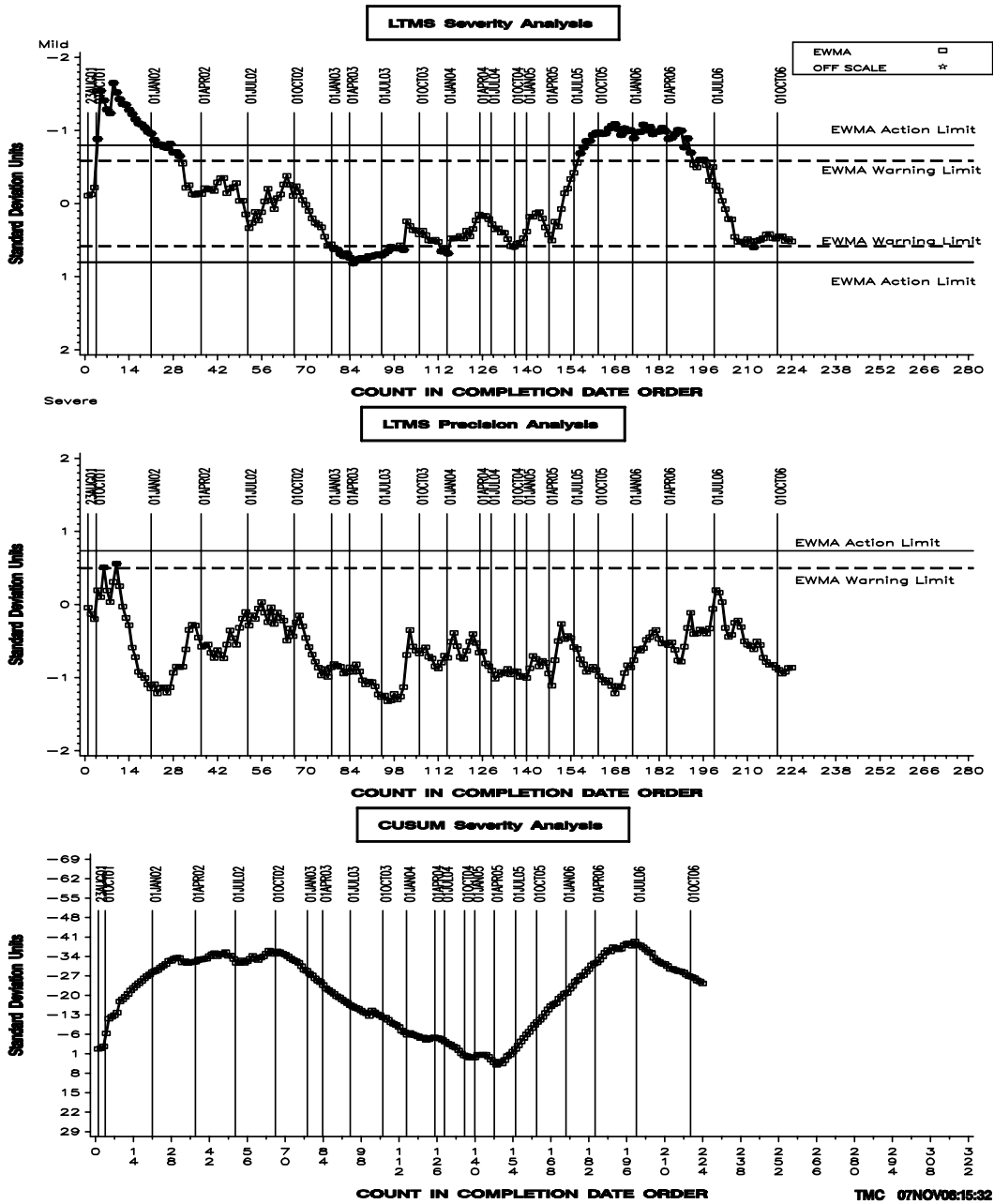
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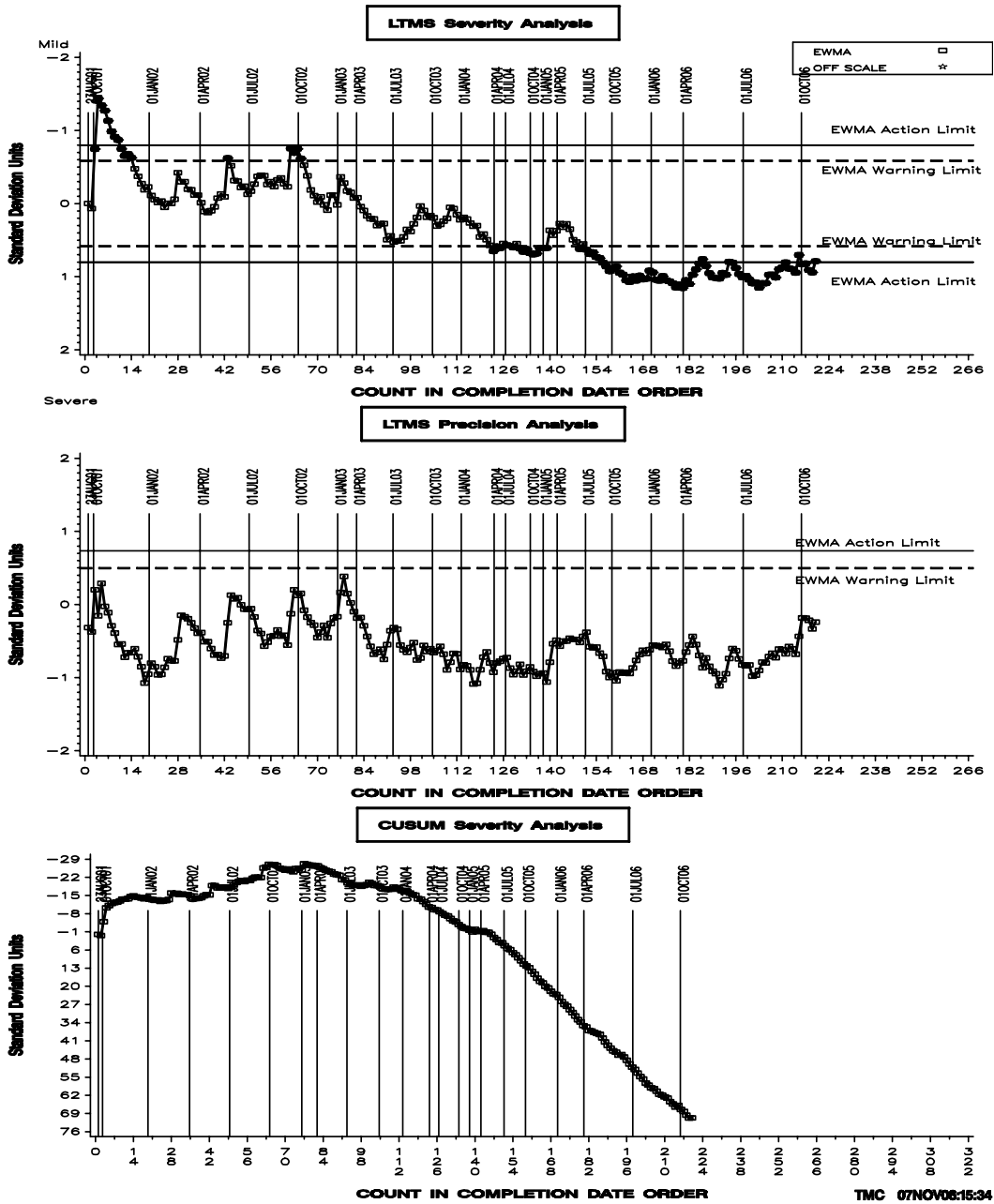
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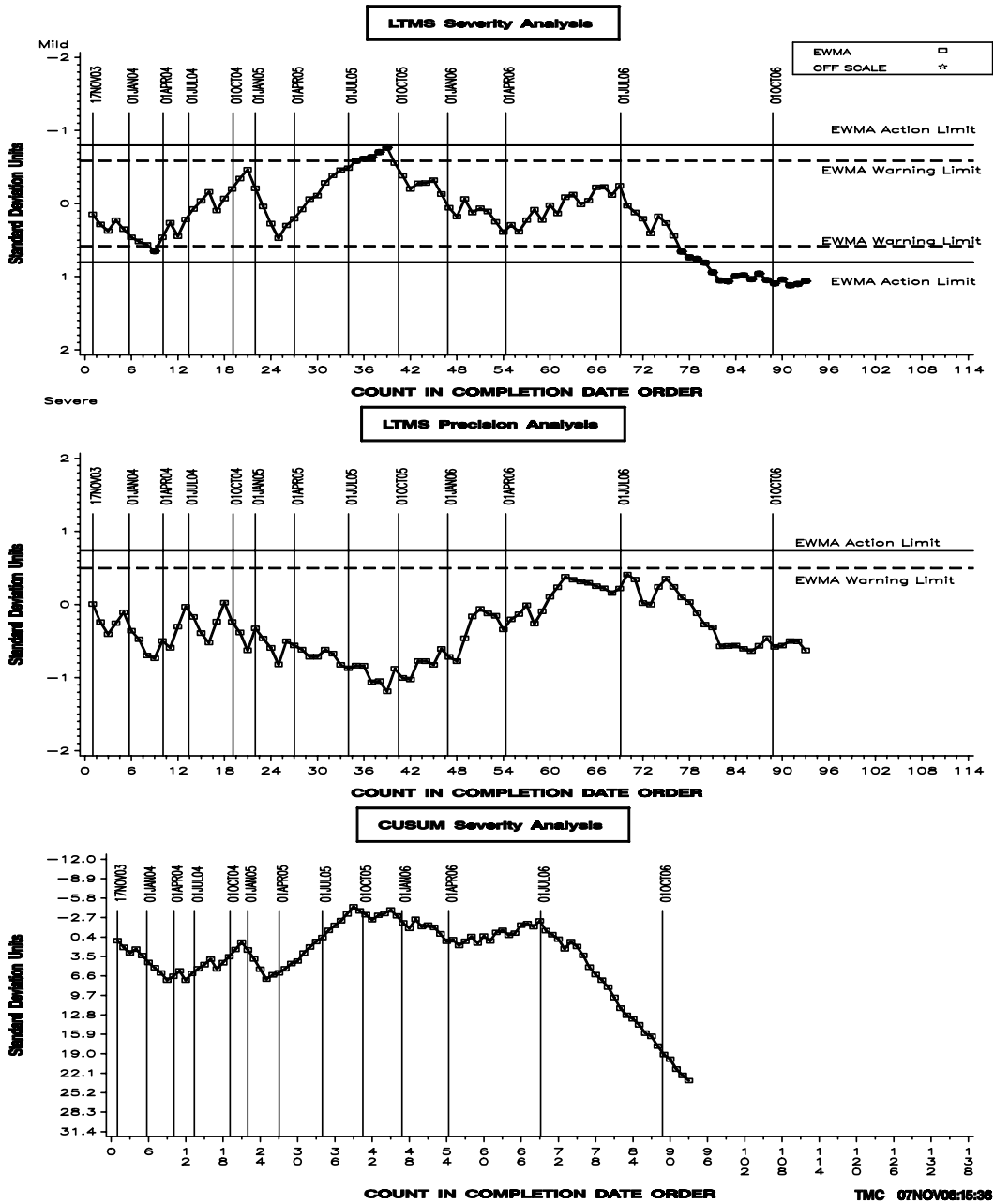
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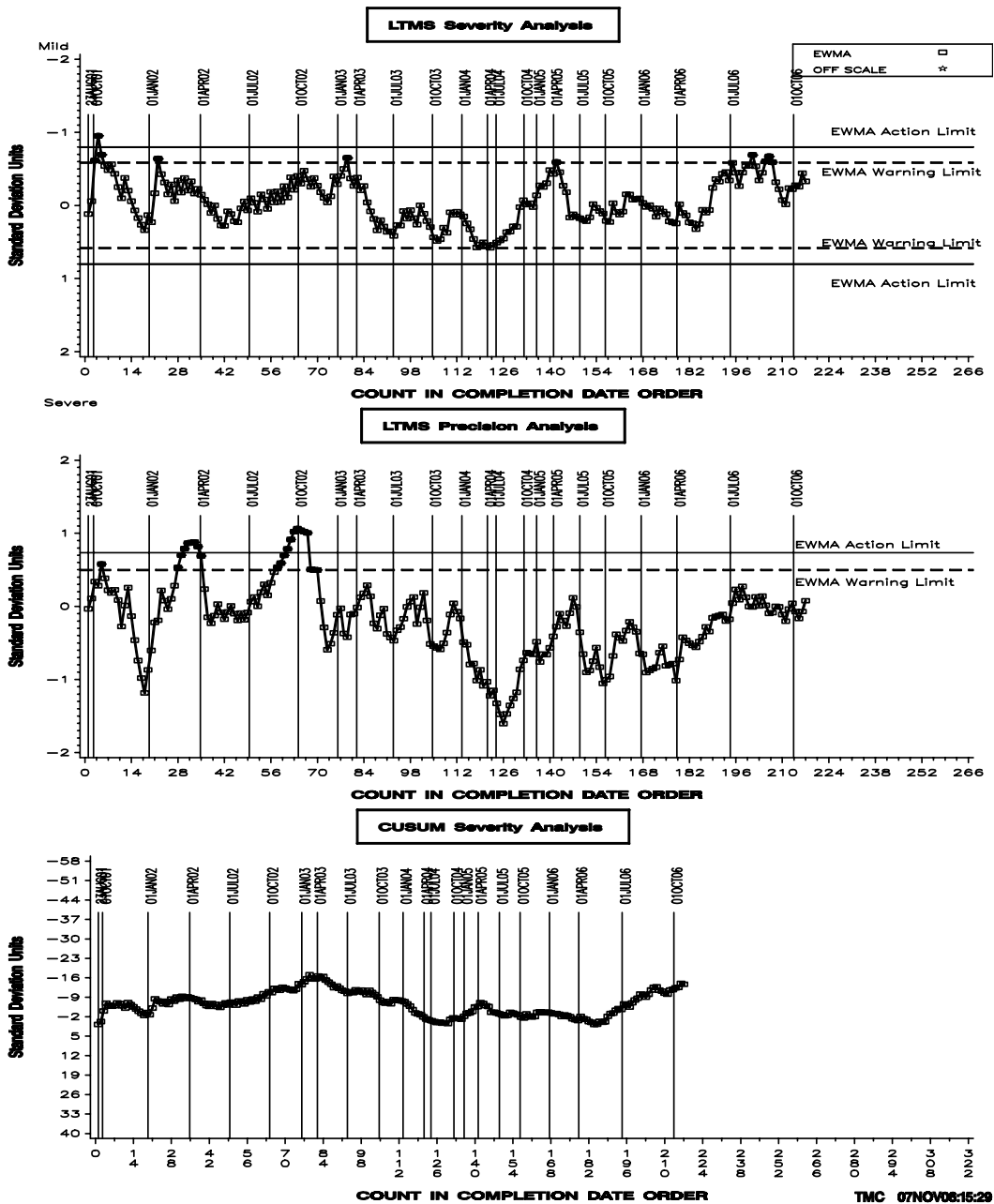
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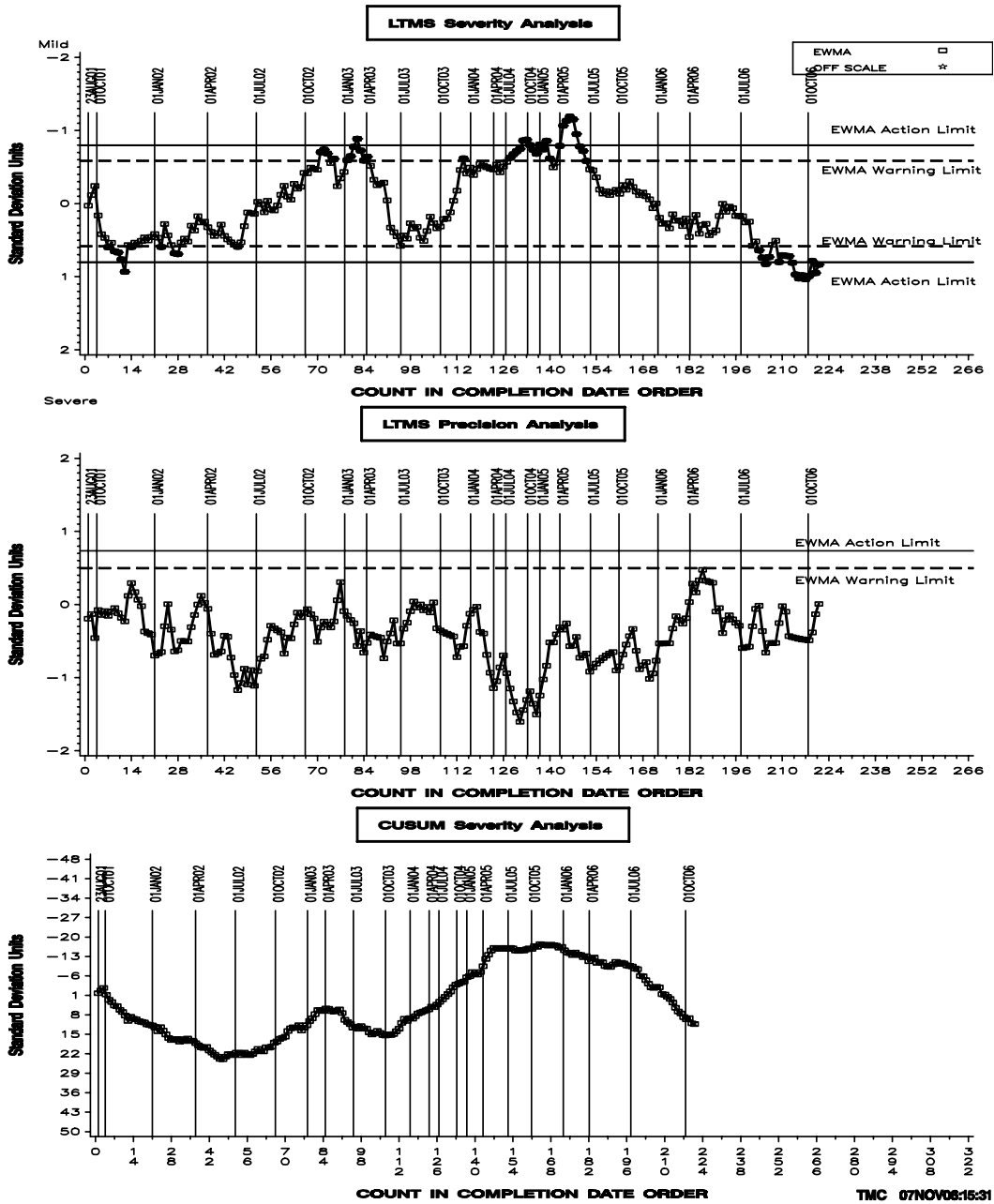
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REFERENCE FLUROELASTOMER POINTS HARDNESS CHANGE AVERAGE



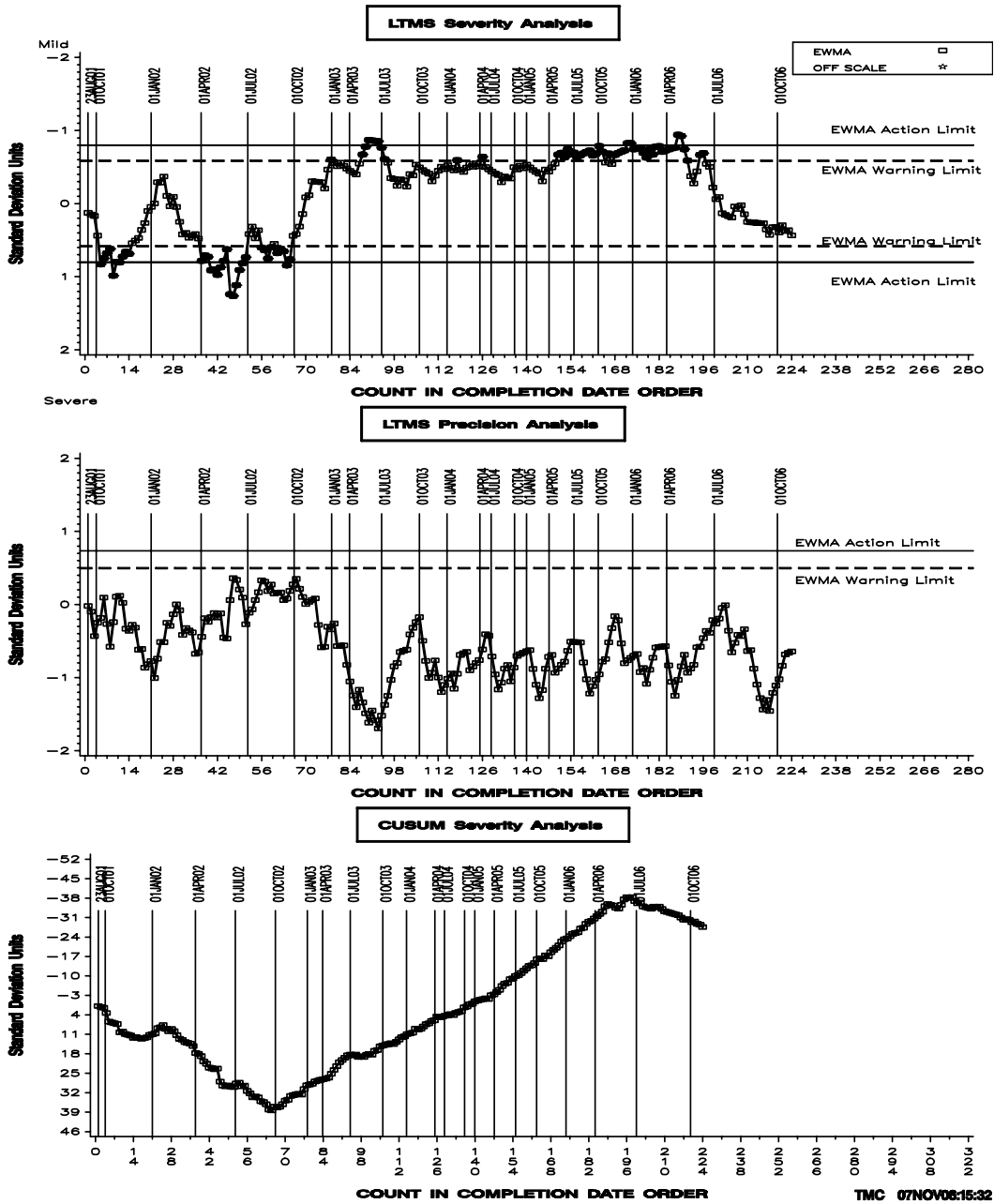
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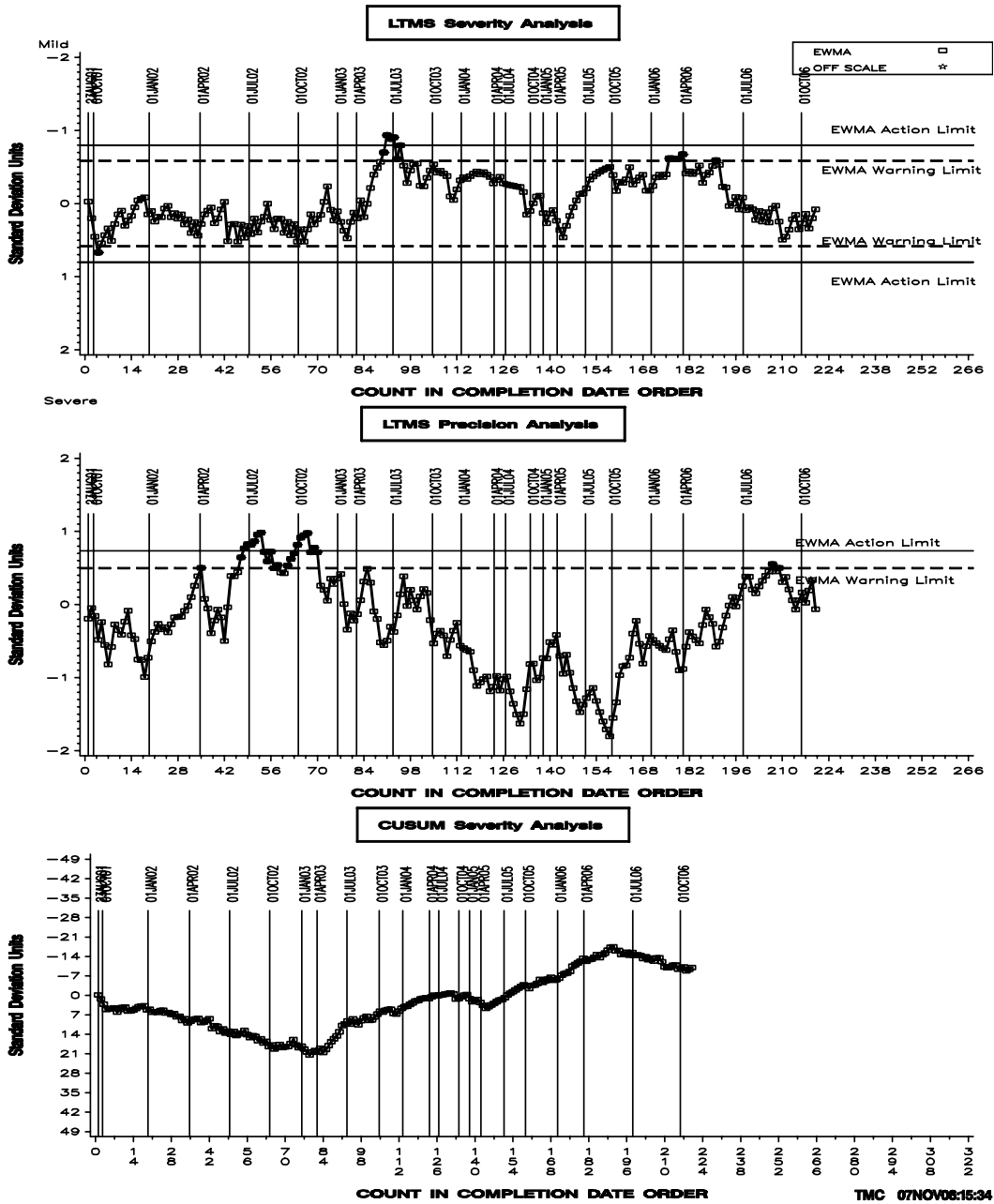
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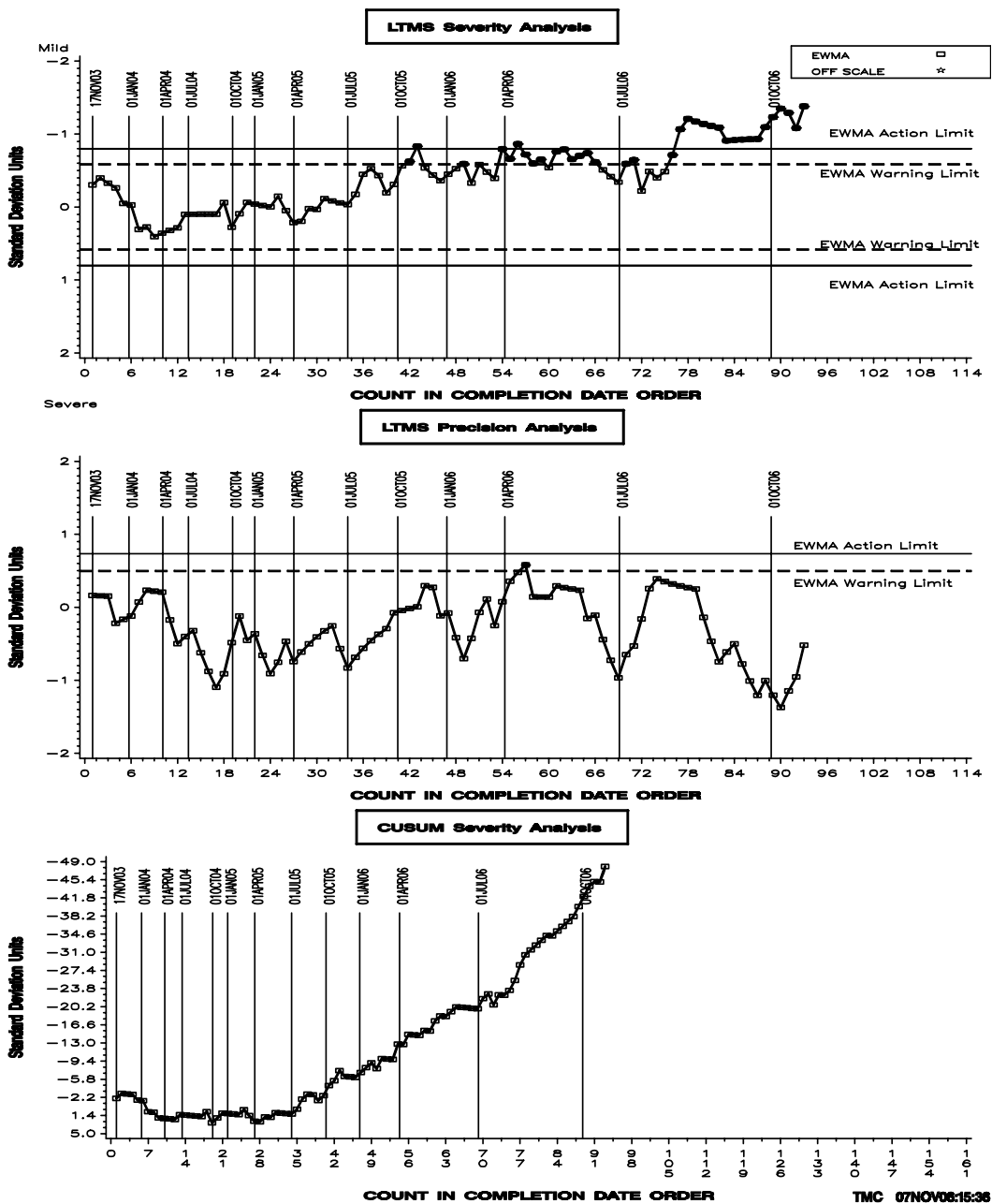
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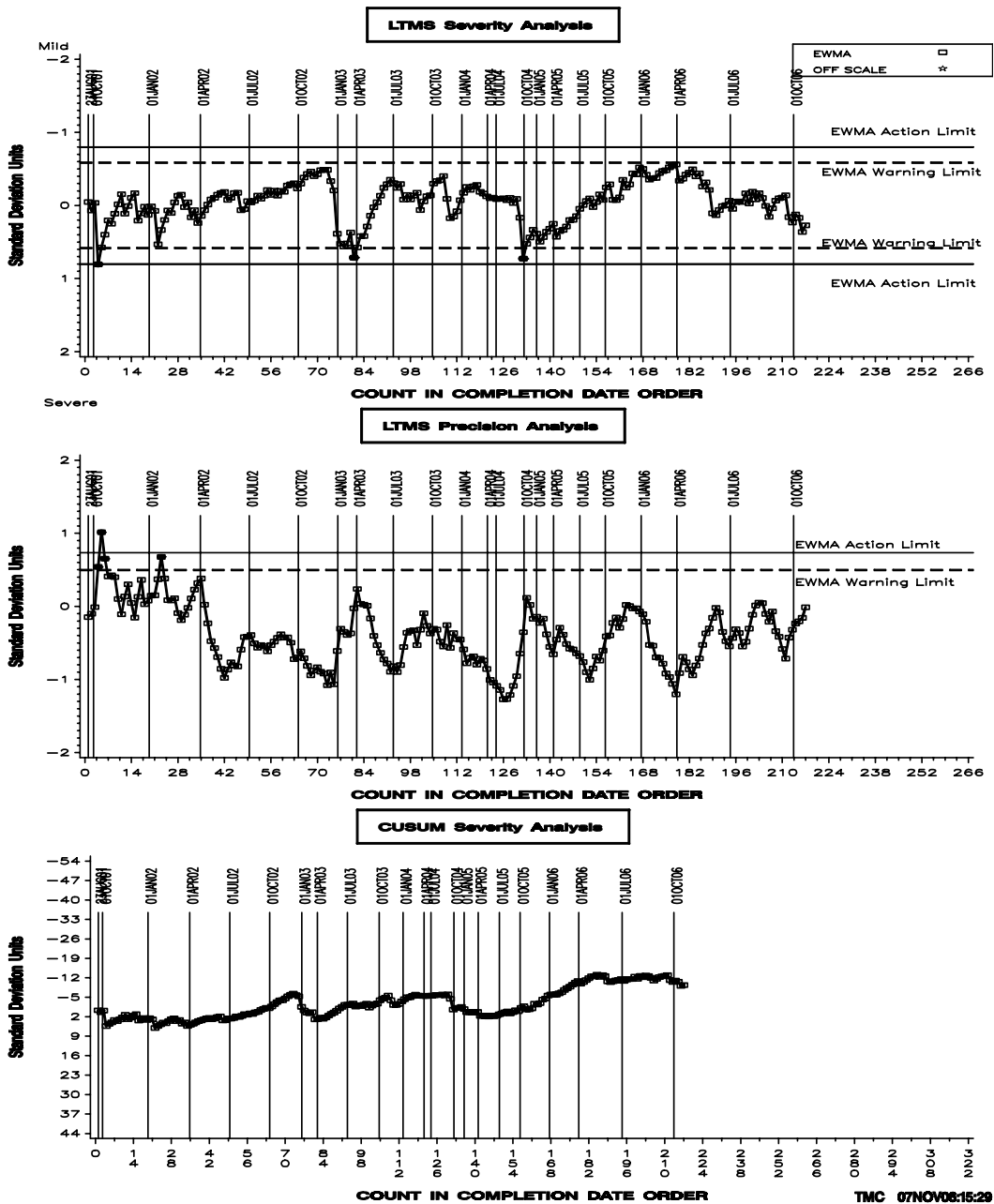
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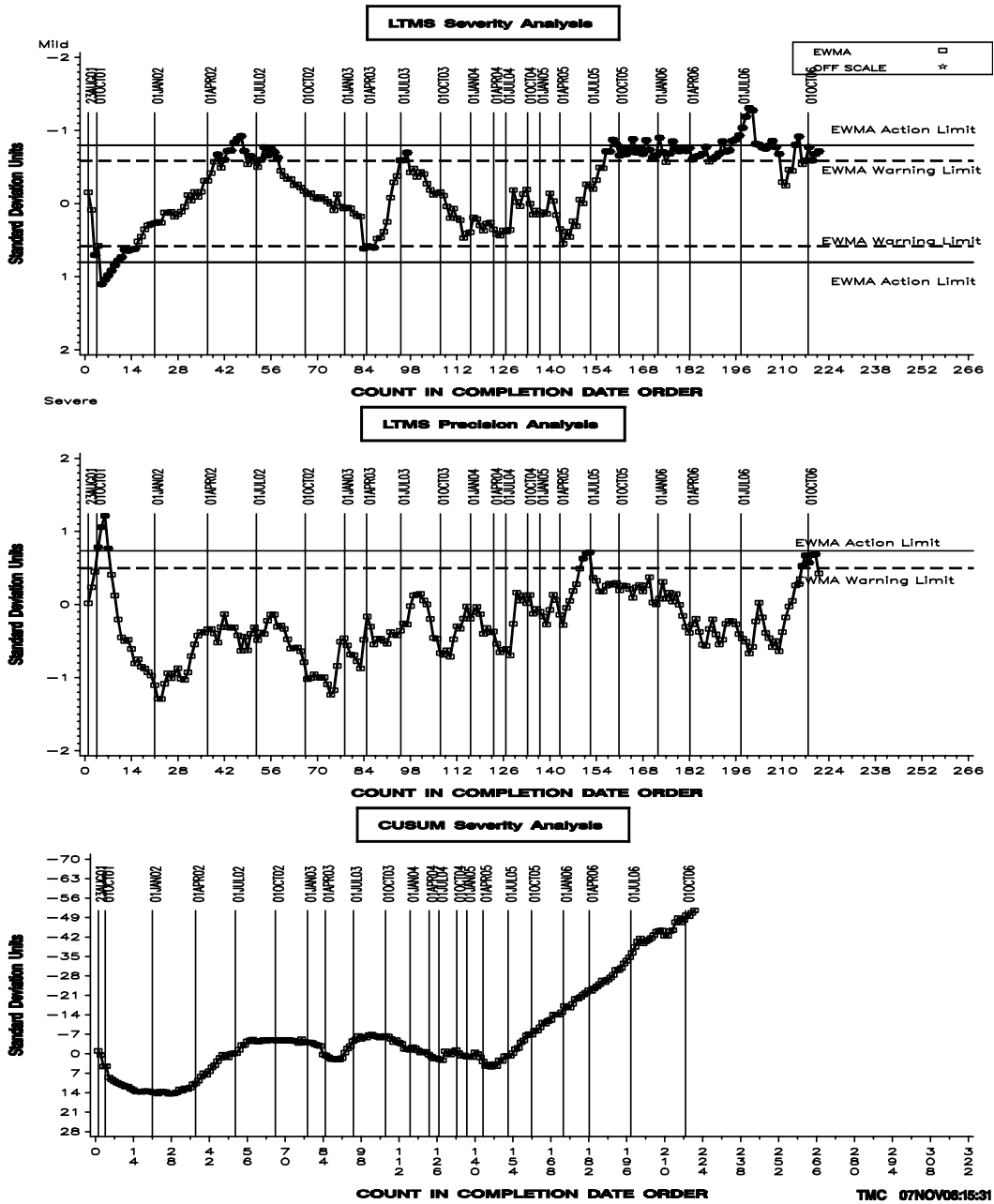
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REFERENCE FLUROELASTOMER TENSILE STRENGTH CHANGE AVERAGE



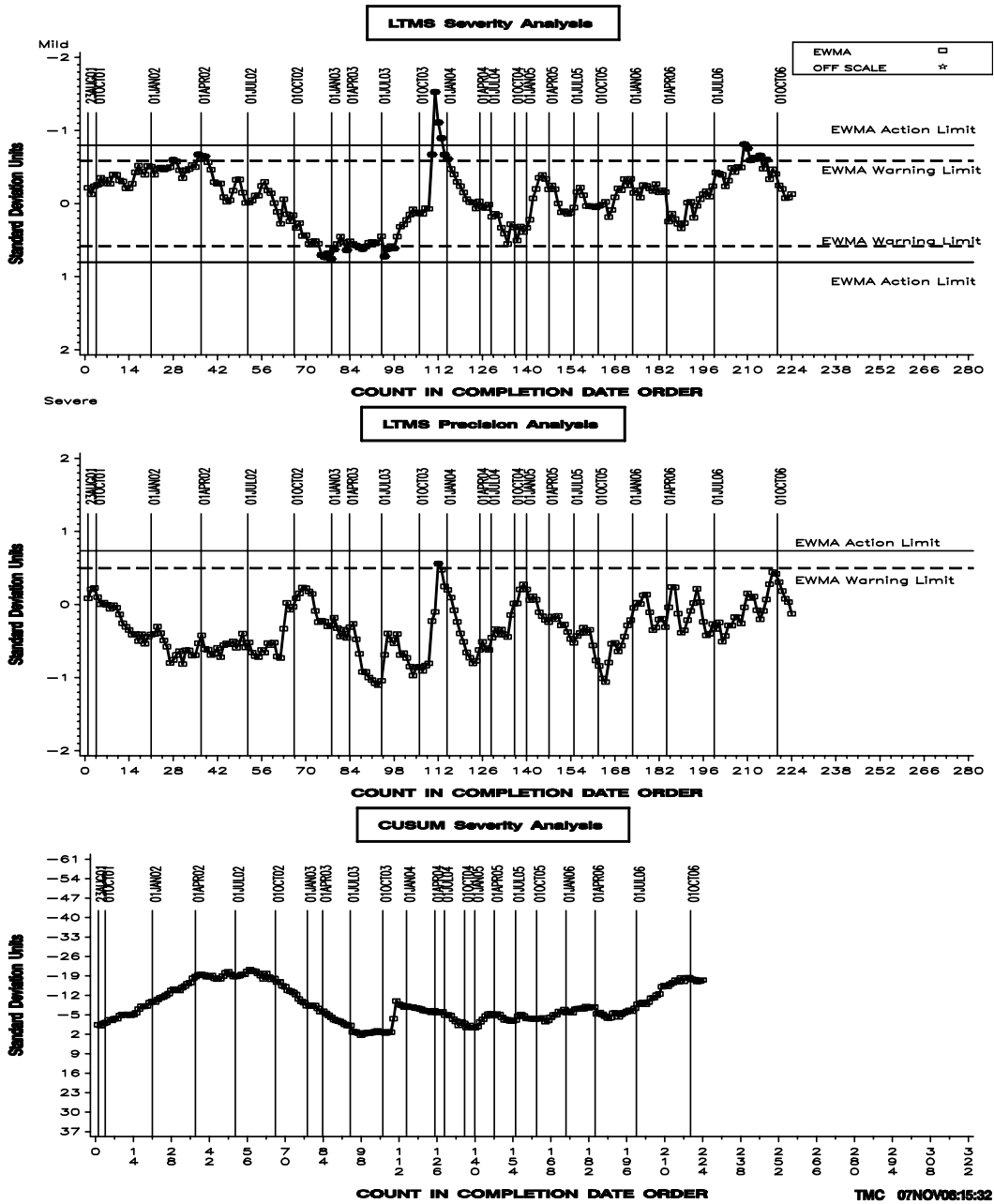
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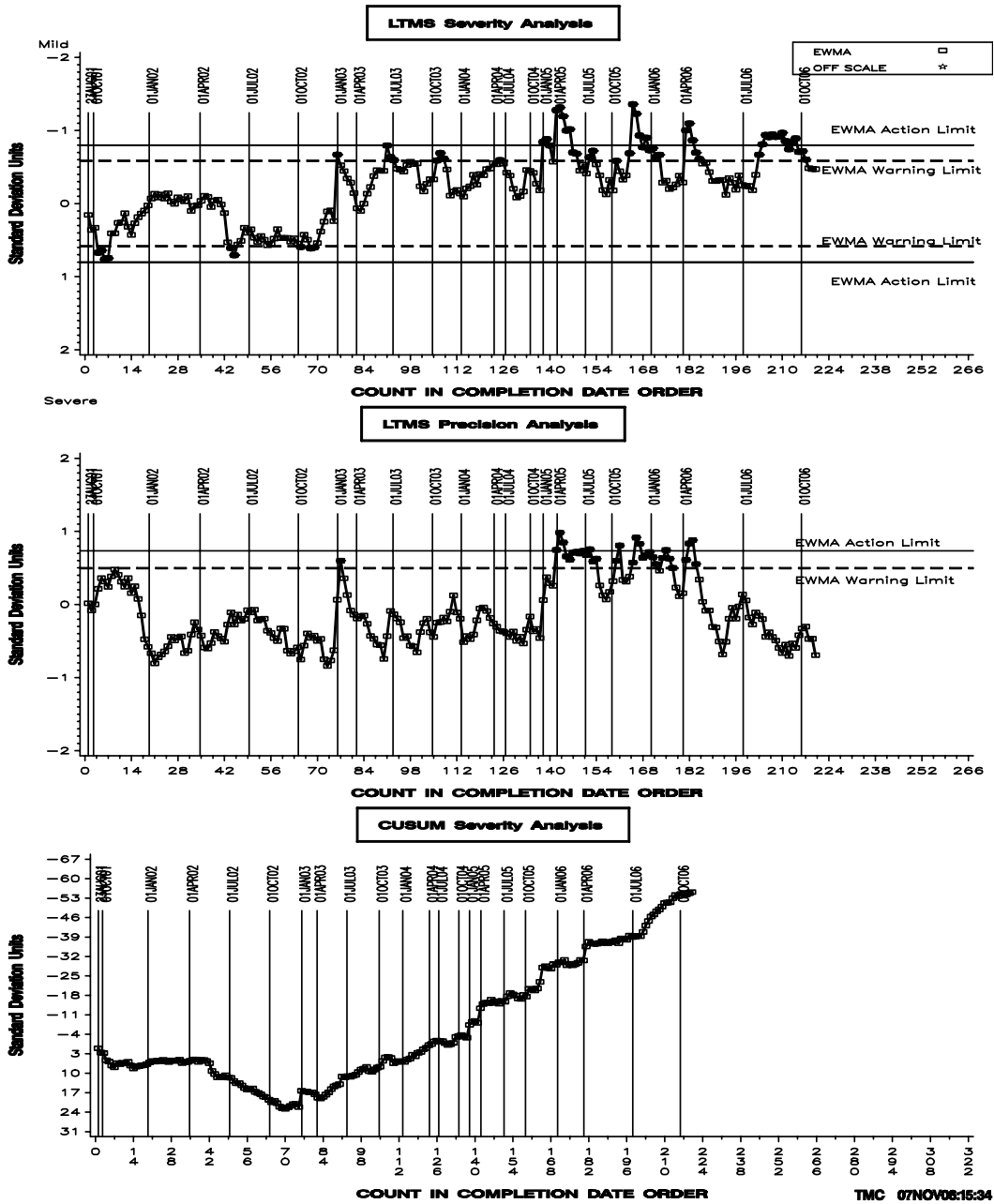
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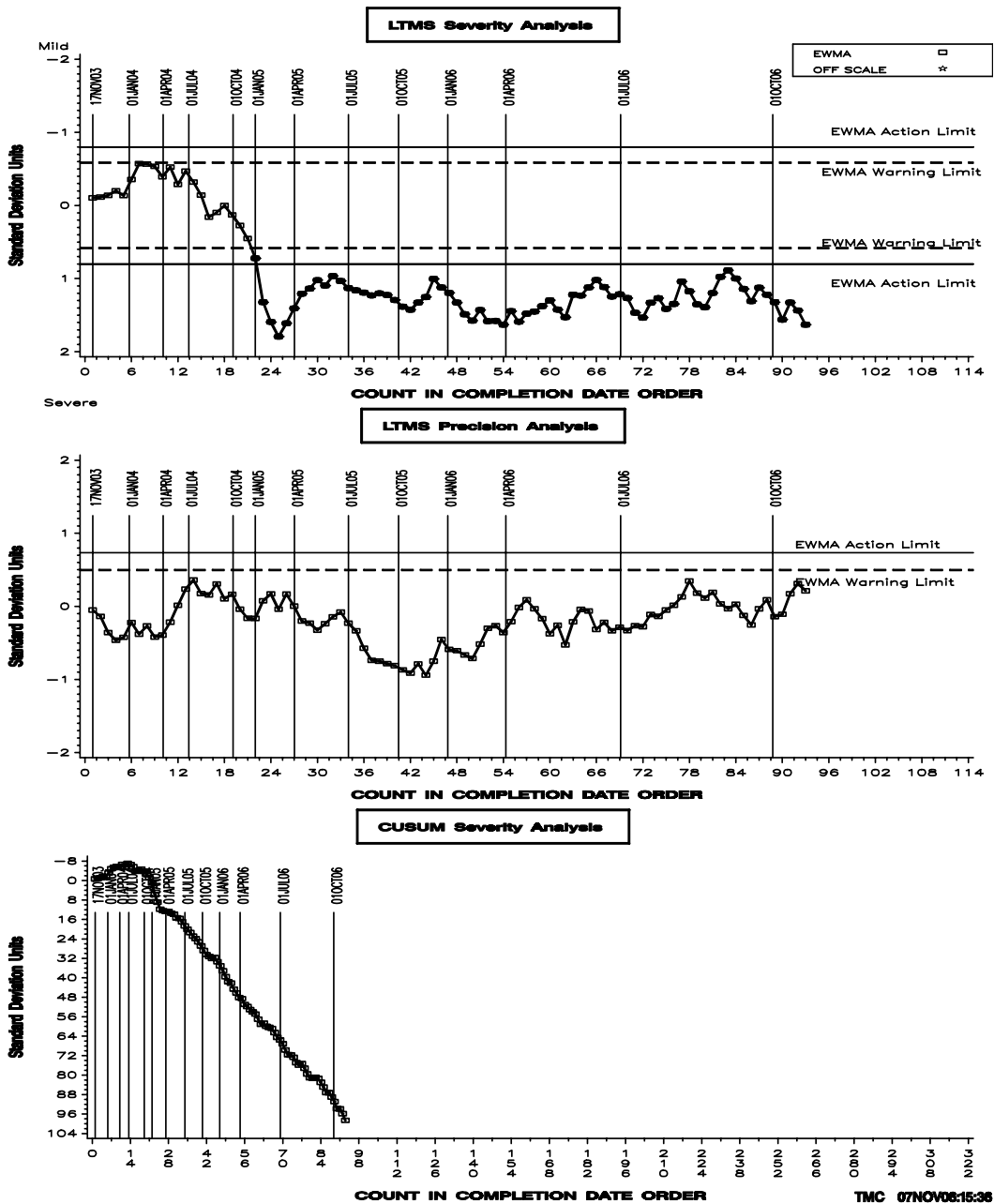
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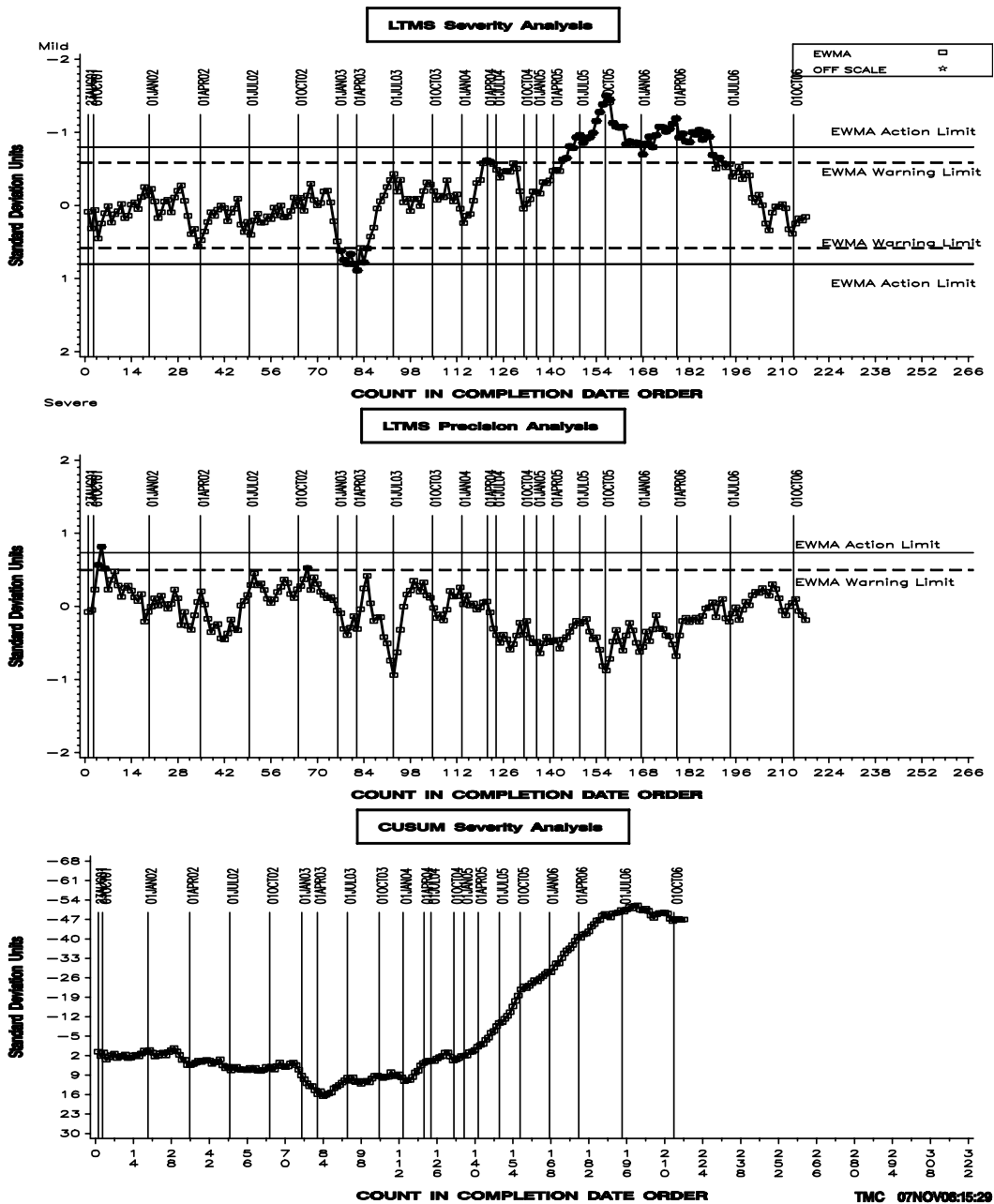
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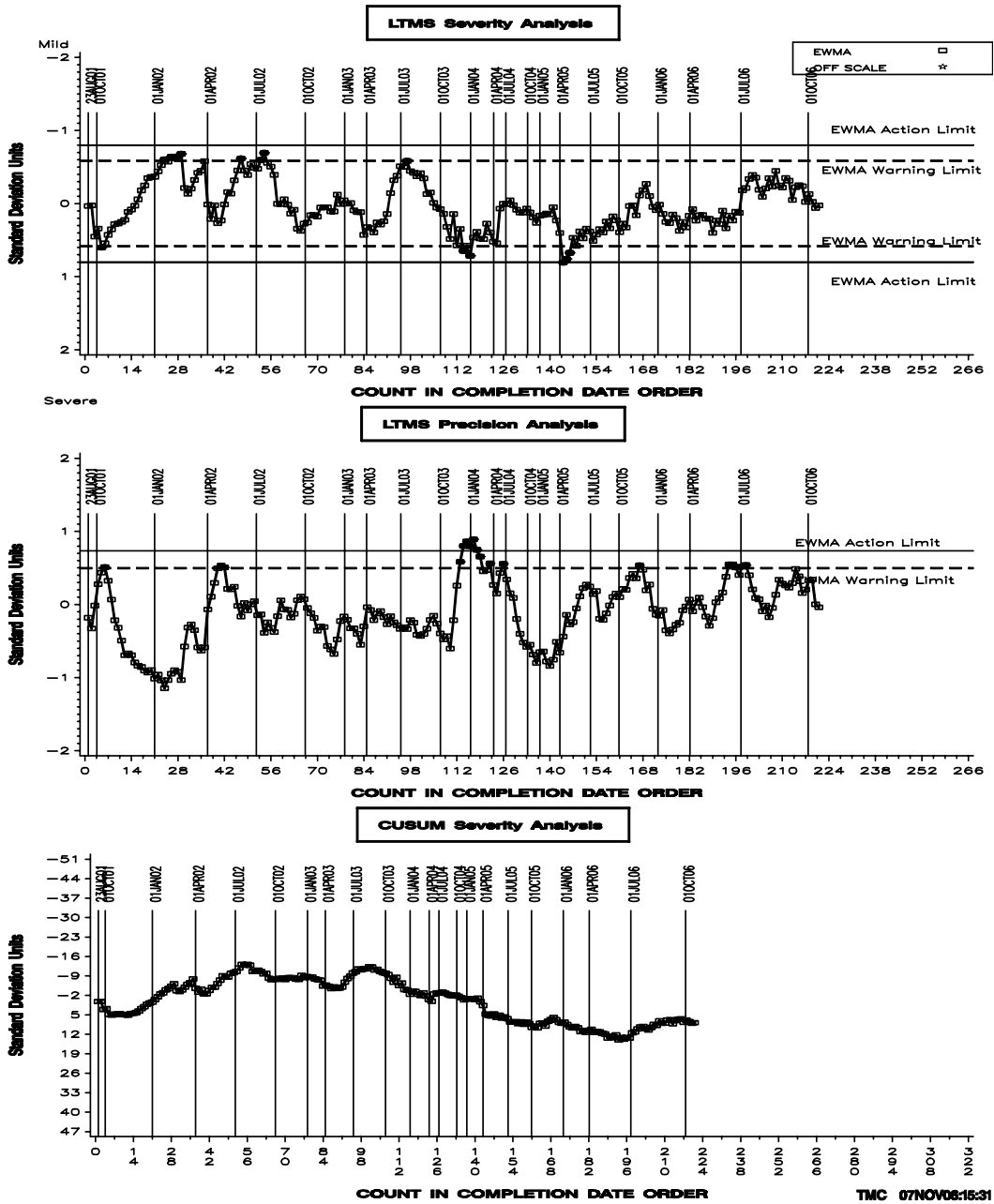
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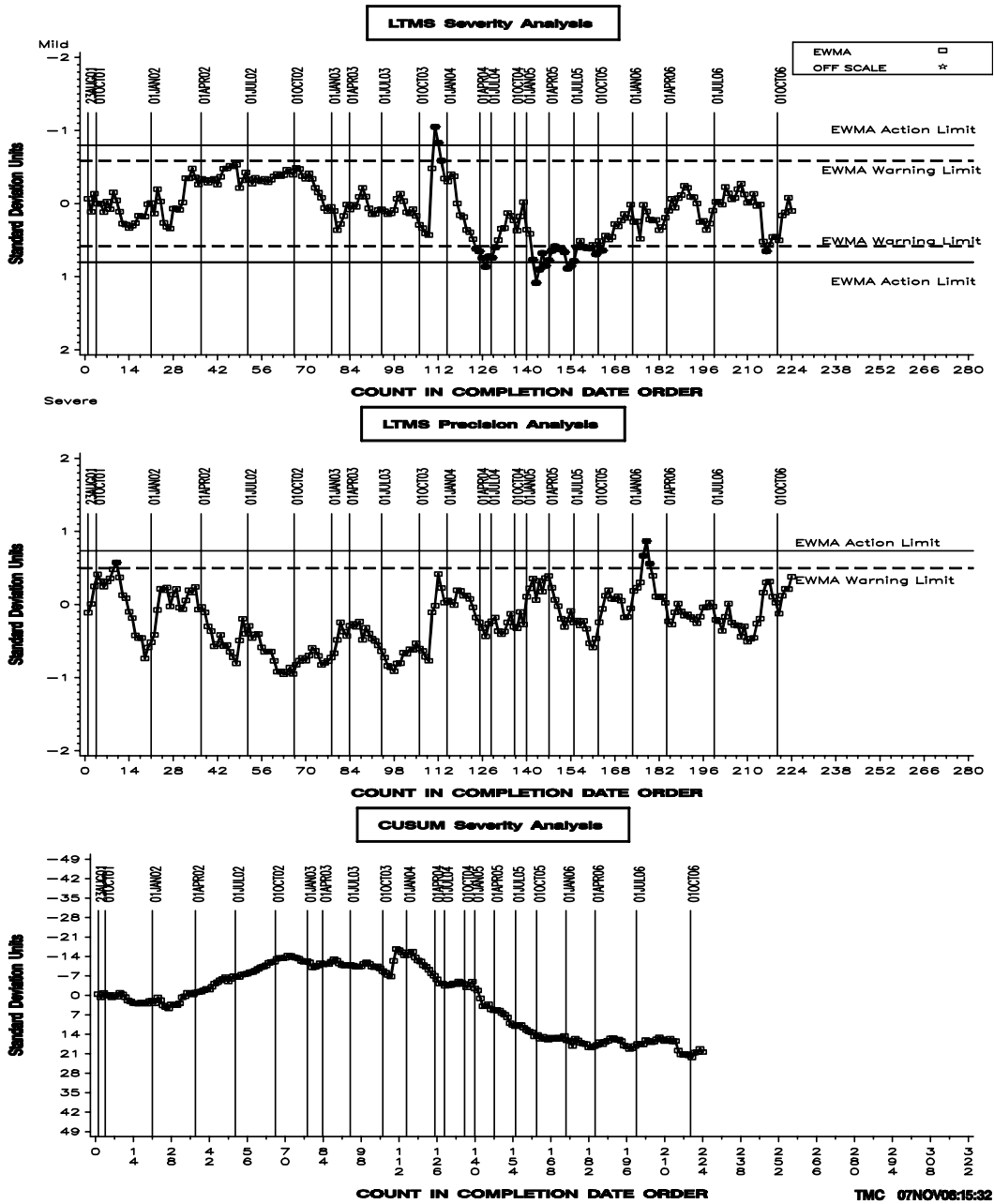
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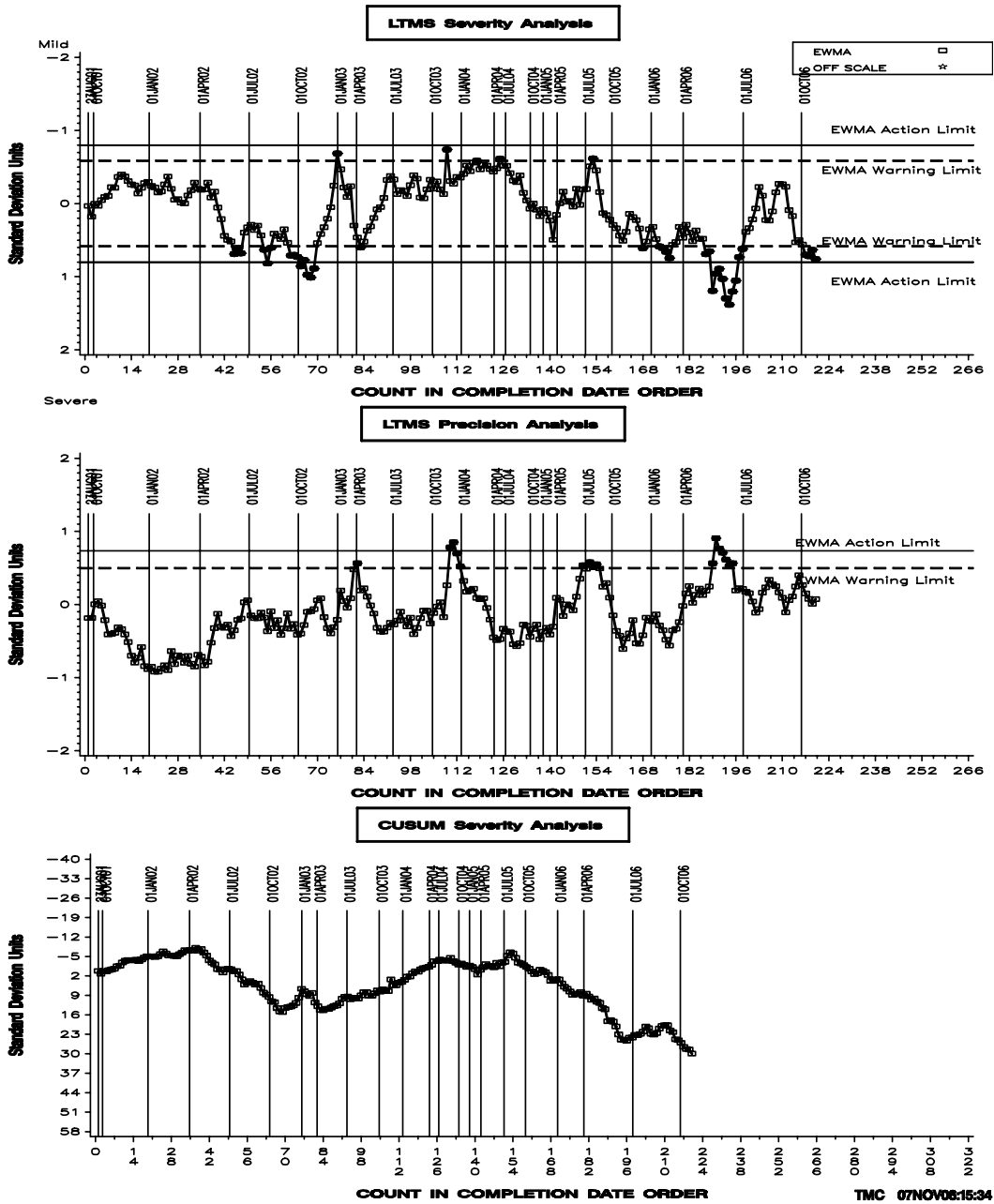
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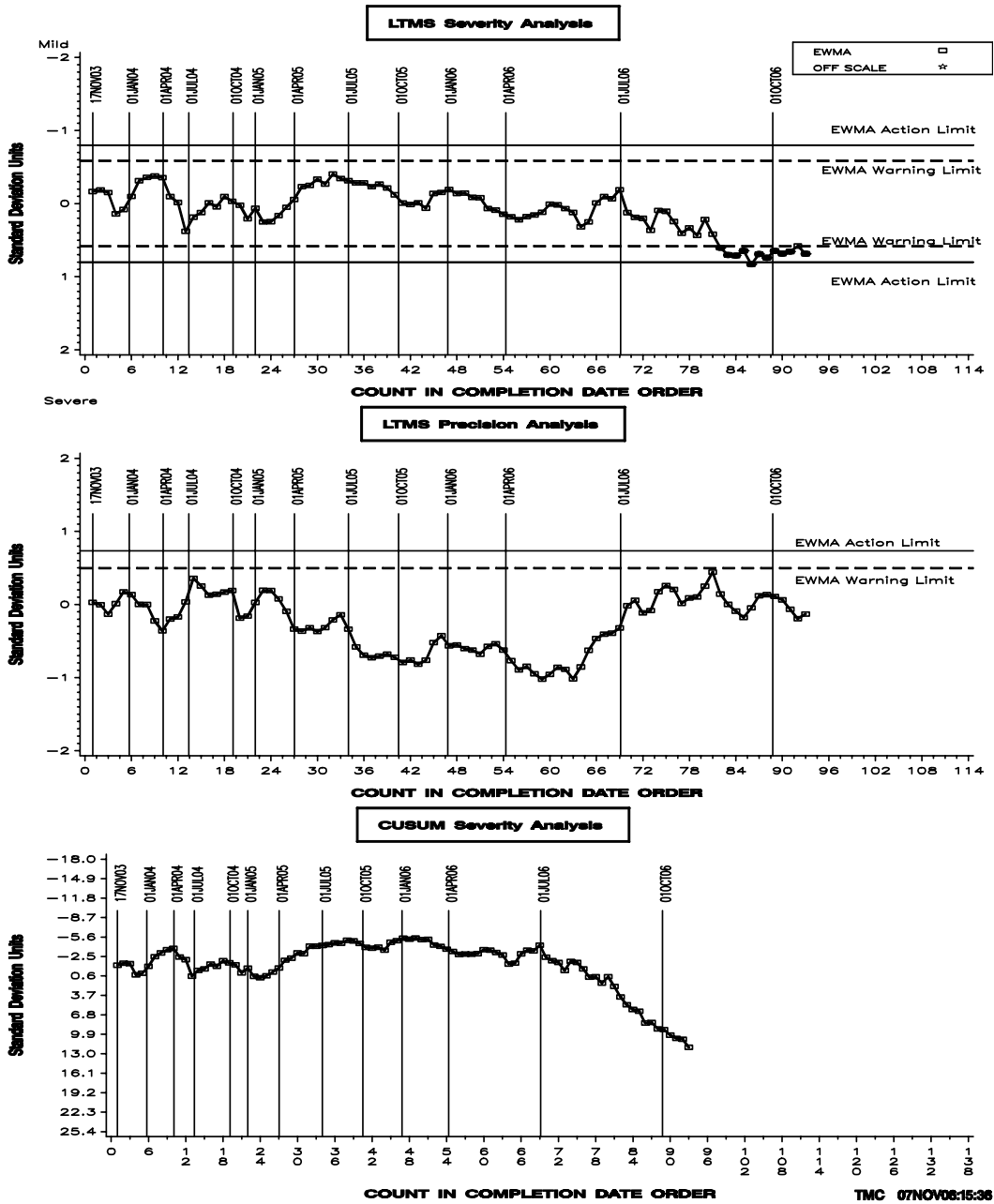
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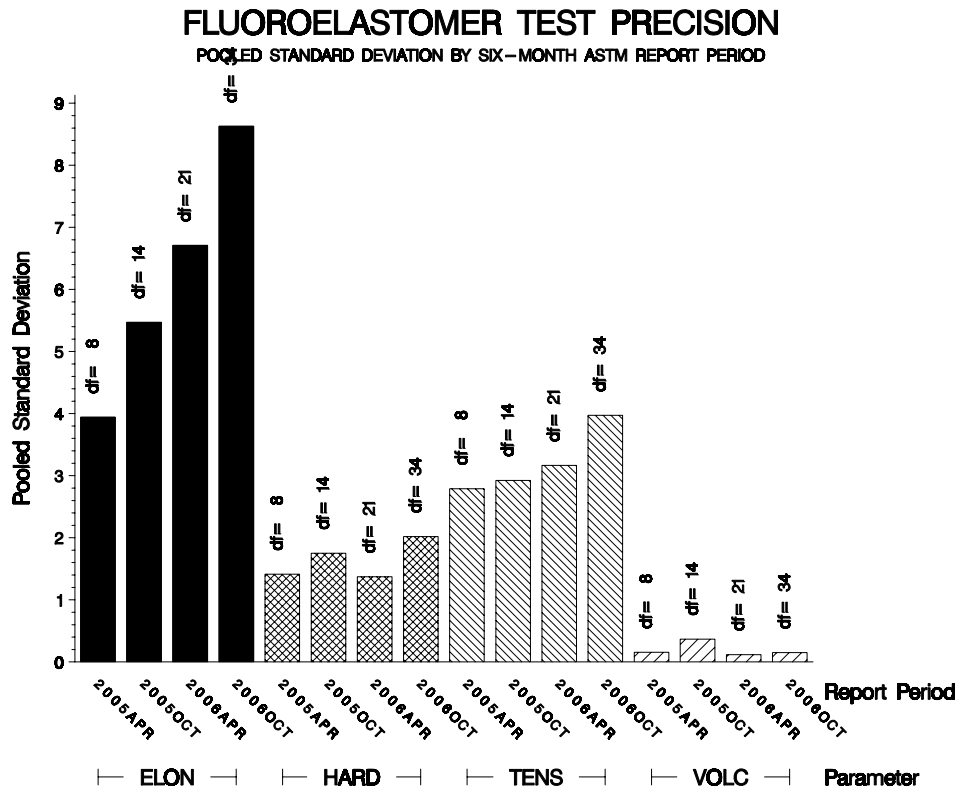
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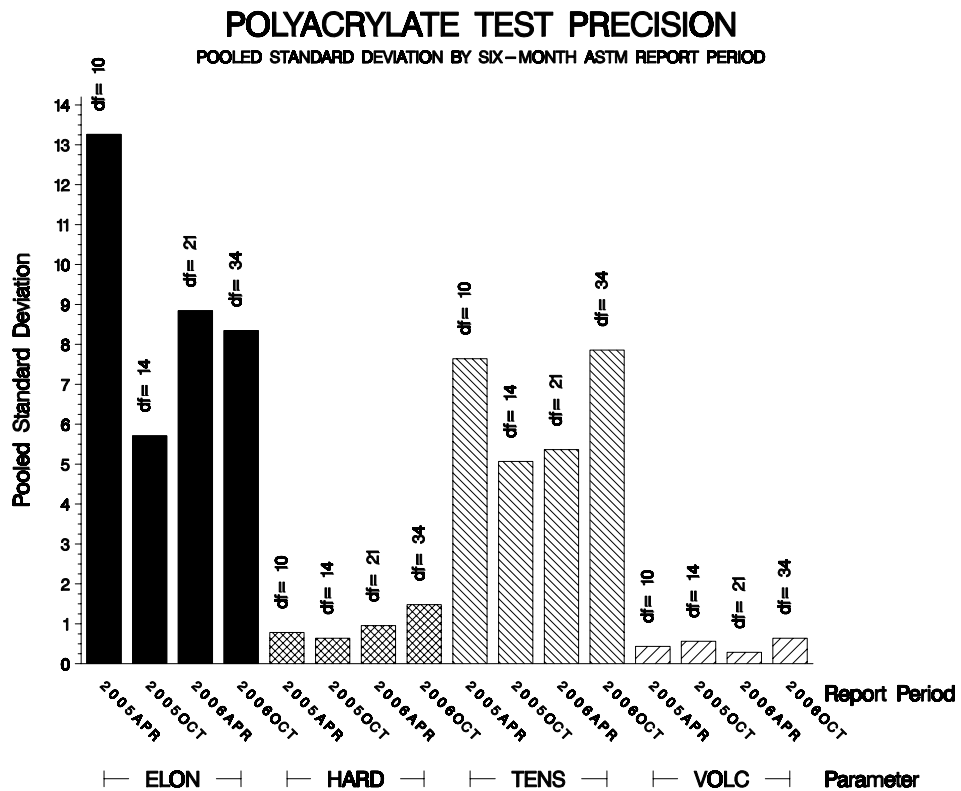
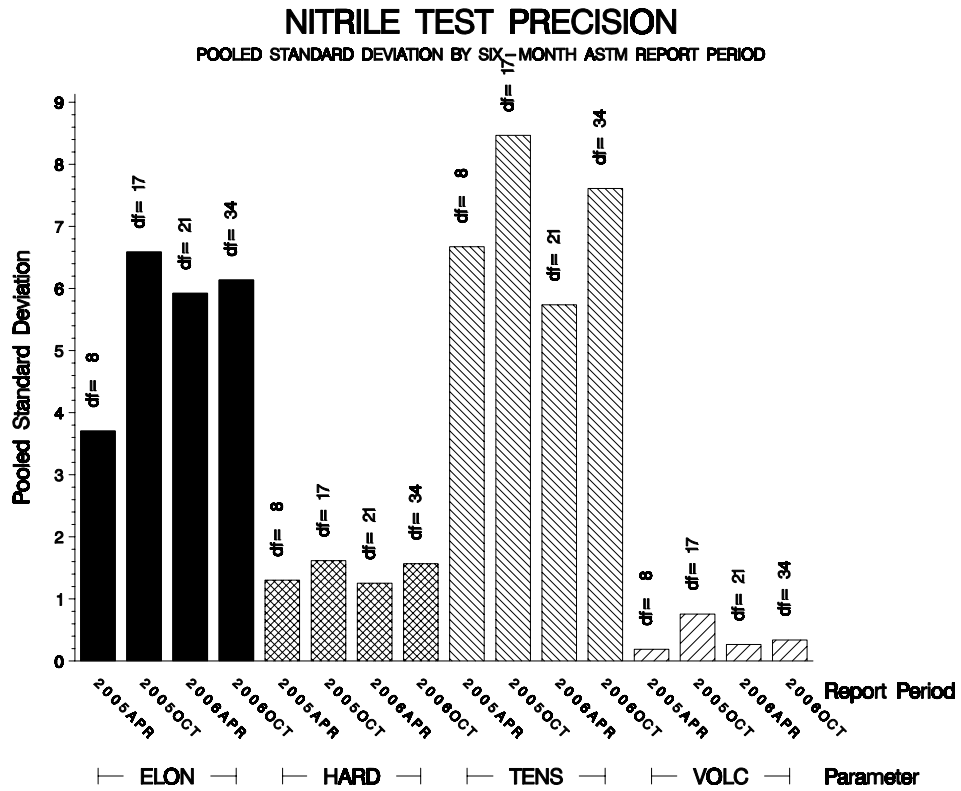
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POOLED S:

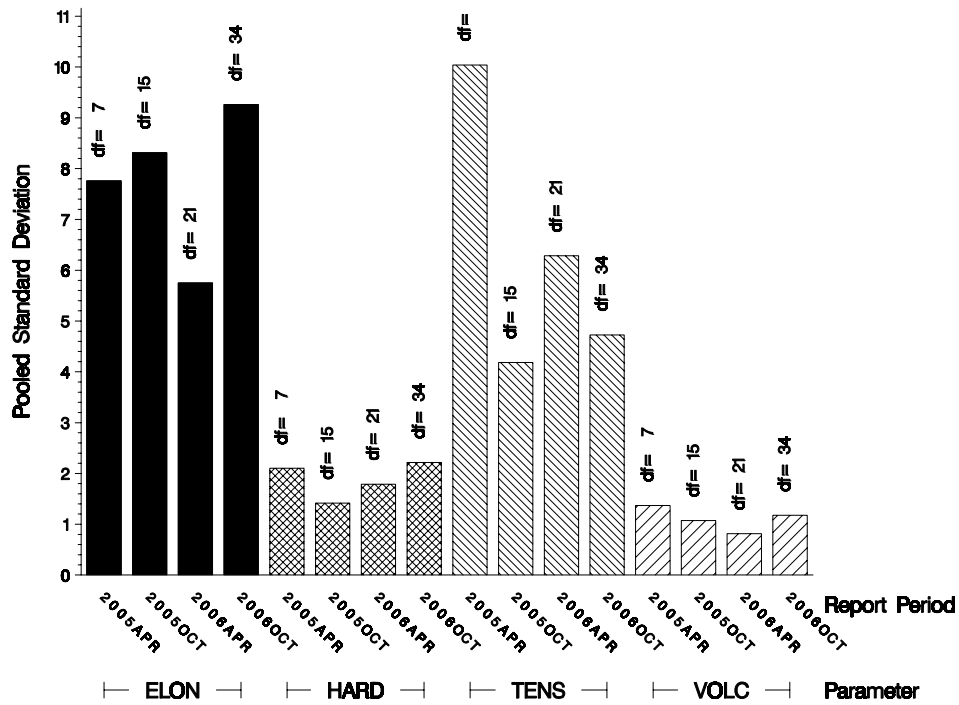
Shown below are bar charts comparing the pooled s values for the EOEC test parameters over the last four report periods. Where degrees of freedom equal zero, no bars are shown. This will occur where only one test was reported or where multiple tests are reported but all are on different oils. Periods showing no information had no tests reported.





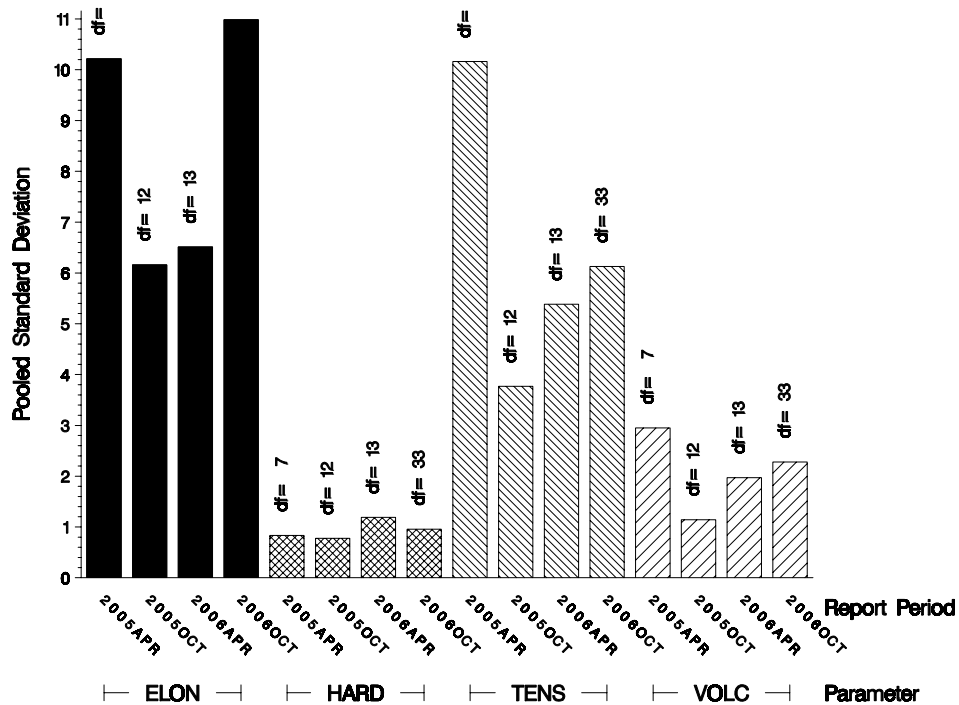
SILICONE TEST PRECISION

POOLED STANDARD DEVIATION BY SIX-MONTH ASTM REPORT PERIOD



VAMAC TEST PRECISION

POOLED STANDARD DEVIATION BY SIX-MONTH ASTM REPORT PERIOD



STATUS OF REFERENCE OIL SUPPLY:

At the end of this report period, the testing oil supply stood as outlined in the following table:

Oil	Cans @ Labs	@ TMC	
		Cans	Gallons
1006-1	79	15563	3084
Total	79	15563	3084

* Future reblends of oils marked with an asterisk are not obtainable by TMC.

Be aware that this table presumes that all of each of these oils is dedicated to the EOEC test area. This is not the case; all of these oils are also used in several other test areas.

INFORMATION LETTERS:

No information letters were issued during this report period.

SUMMARY

**Summary of Severity
as Measured by LTMS Control Charting**

Elastomer	VOLC	HARD	TENS	ELON
Fluoroelastomer	Within limits	Within limits	Within limits	Within limits
Nitrile	Within limits	Severe	Within limits	Within limits
Polyacrylate	Within limits	Within limits	Within limits	Within limits
Silicone	Severe	Within limits	Within limits	Within limits
VAMAC	Severe	Mild	Severe	Within limits

**Summary of Precision
as Measured by LTMS Control Charting**

Elastomer	VOLC	HARD	TENS	ELON
Fluoroelastomer	Within limits	Within limits	Within limits	Within limits
Nitrile	Within limits	Within limits	Within limits	Within limits
Polyacrylate	Within limits	Within limits	Within limits	Within limits
Silicone	Within limits	Within limits	Within limits	Within limits
VAMAC	Within limits	Within limits	Within limits	Within limits

SDP/sdp/astm1006.doc/mem06-090.sdp.doc

c: J. L. Zalar

F. M. Farber

EOEC Surveillance Panel

<ftp://ftp.astmtmc.cmu.edu/docs/bench/eoec/semiannualreports/eoec-10-2006.pdf>

Distribution: email