



Test Monitoring Center

6555 Penn Avenue
Pittsburgh, PA 15206-4489
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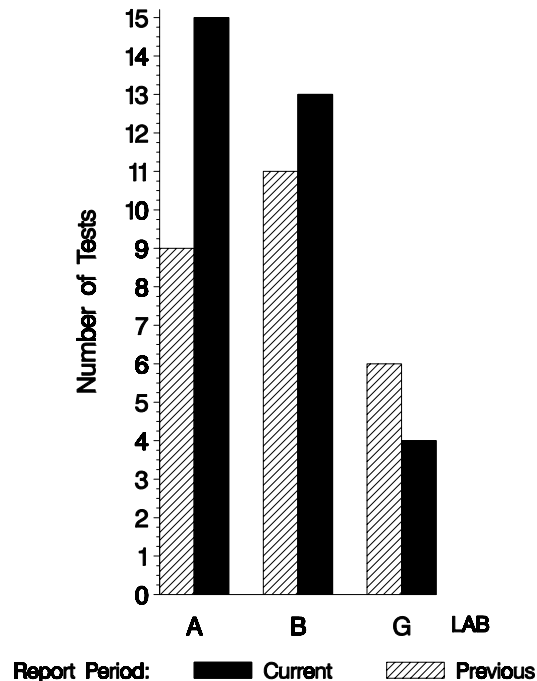
MEMORANDUM: 07-084
DATE: November 27, 2007
TO: Becky Grinfield,
Chairman, Engine Oil Elastomer Compatibility Surveillance Panel
FROM: Scott Parke
SUBJECT: EOEC Testing from April 1, 2007 through September 30, 2007

A total of 146 EOEC tests were reported to the Test Monitoring Center during the period from April 1, 2007 through September 30, 2007. The data from these tests is shown beginning on page 8. Following is a summary of testing activity this period.

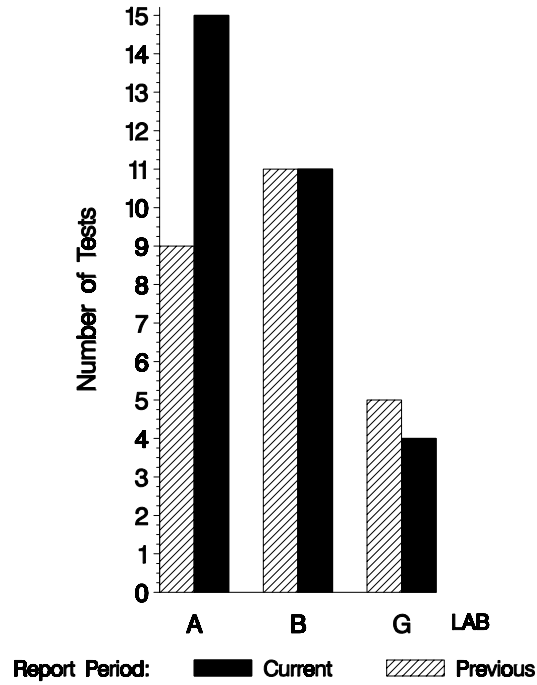
	Reporting Data
Number of Labs	3

Tests reported this period were distributed as shown below:

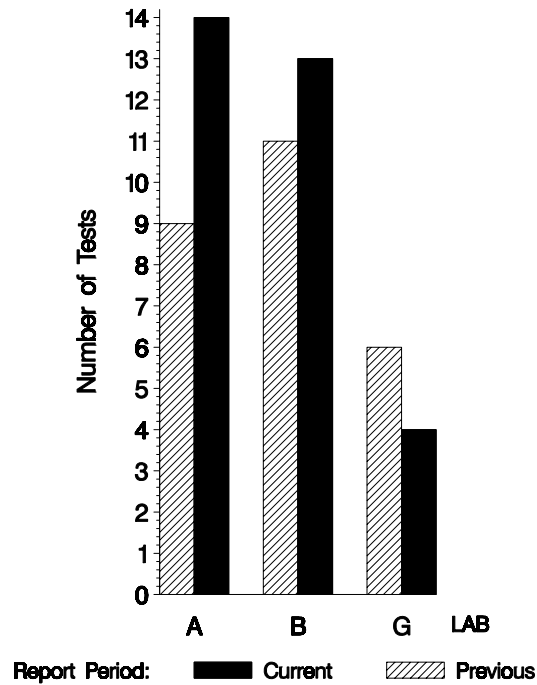
NUMBER OF FLUROELASTOMER TESTS REPORTED BY LAB AND REPORT PERIOD



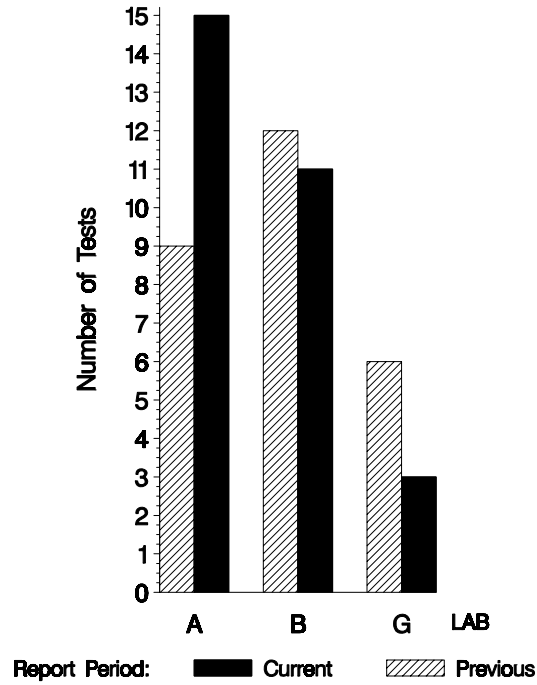
NUMBER OF NITRILE TESTS REPORTED BY LAB AND REPORT PERIOD



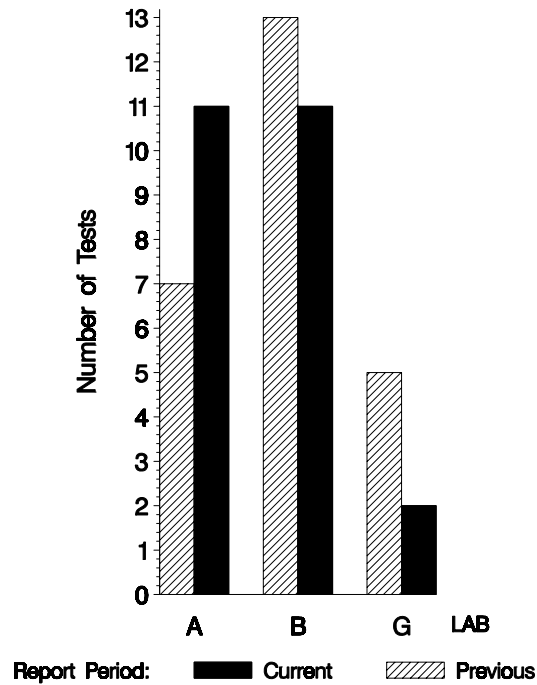
NUMBER OF POLYACRYLATE TESTS REPORTED BY LAB AND REPORT PERIOD



**NUMBER OF SILICONE TESTS
REPORTED BY LAB AND REPORT PERIOD**



**NUMBER OF VAMAC TESTS
REPORTED BY LAB AND REPORT PERIOD**

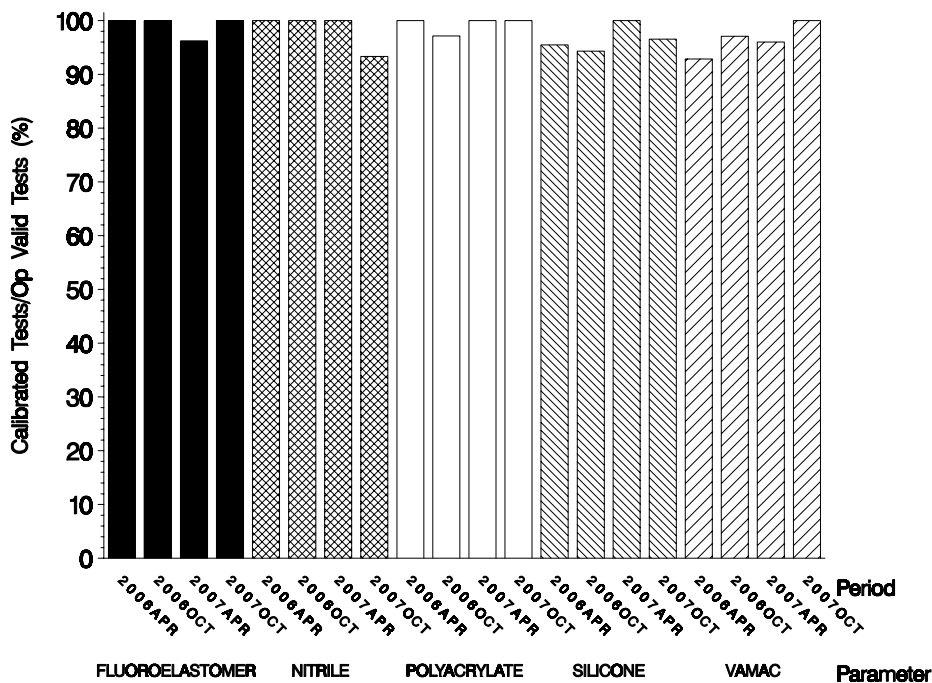


Test Distribution by Oil and Validity

Totals

		Fluoroelastomer	Nitrile	Polyacrylate	Silicone	VAMAC	Last Period	This Period
Accepted for Calibration	AC	32	28	31	28	24	125	143
Rejected Mild	OC	0	2	0	0	0	1	2
Rejected Severe	OC	0	0	0	1	0	1	1
Information Run (not for calibration)	NI	0	0	0	0	0	1	0
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	0	0
Total		32	30	31	29	24	128	146

**OPERATIONALLY VALID TESTS
MEETING ACCEPTANCE CRITERIA**



The above chart shows the percentage of accepted operationally valid tests. This period two nitrile and one silicone test 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	15	0	0	15	0	0	14	0	0	15	0	0	11	0	0	70	0
B	0	13	0	0	11	0	0	13	0	0	11	0	0	11	0	0	59	0
G	0	4	0	0	4	0	0	4	0	0	3	0	0	2	0	0	17	0
Total	0	32	0	0	30	0	0	31	0	0	29	0	0	24	0	0	146	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	15	-0.608	0.106	-0.459	-0.937
	B	13	-0.078	0.178	-0.055	-0.879
	IN	32	-0.186	-0.009	-0.178	-0.643
Nitrile						
	A	15	0.721	0.714	-2.029	-0.943
	B	11	1.557	1.470	-1.578	-0.732
	IN	30	1.124	0.902	-1.676	-0.874
Polyacrylate						
	A	14	0.616	0.363	-0.380	-0.072
	B	13	1.123	0.112	0.108	0.271
	IN	31	0.831	0.283	-0.072	0.039
Silicone						
	A	15	0.128	-0.604	-0.392	1.008
	B	11	1.218	-0.415	-0.639	0.492
	IN	29	0.599	-0.346	-0.527	0.658
VAMAC						
	A	11	0.854	-1.341	1.746	0.575
	B	11	1.042	-1.245	1.978	-0.067
	IN	24	1.000	-1.309	1.692	0.291

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

LTMS DATE	LAB	VOLC	HARD	TENS	ELON	VOLCYI	HARDYI	TENSYI	ELONYI
20070411	A	0.34	10	-72.5	-69.8	-1.824	1.227	-0.602	-1.236
20070413	B	0.51	6	-69.2	-63.1	-0.676	-0.591	0.015	-0.491
20070430	A	0.29	8	-73.7	-64.6	-2.162	0.318	-0.826	-0.657
20070501	A	0.39	8	-72.4	-66.1	-1.486	0.318	-0.583	-0.824
20070508	B	0.38	8	-67.3	-60.8	-1.554	0.318	0.370	-0.235
20070516	A	0.73	8	-71.4	-66.0	0.811	0.318	-0.396	-0.813
20070521	G	0.77	4	-64.2	-47.8	1.081	-1.500	0.950	1.211
20070523	A	0.54	8	-70.9	-70.6	-0.473	0.318	-0.303	-1.325
20070525	B	0.60	7	-69.6	-63.2	-0.068	-0.136	-0.060	-0.502
20070530	A	0.56	7	-72.0	-64.7	-0.338	-0.136	-0.508	-0.669
20070605	G	0.80	4	-69.0	-46.8	1.284	-1.500	0.052	1.323
20070612	B	0.60	7	-69.3	-62.0	-0.068	-0.136	-0.004	-0.368
20070614	A	0.54	8	-74.0	-70.9	-0.473	0.318	-0.882	-1.358
20070627	B	0.64	8	-69.9	-68.0	0.203	0.318	-0.116	-1.036
20070627	A	0.46	7	-69.0	-63.4	-1.014	-0.136	0.052	-0.524
20070628	G	0.60	6	-71.8	-49.4	-0.068	-0.591	-0.471	1.033
20070704	A	0.64	7	-72.2	-69.1	0.203	-0.136	-0.546	-1.158
20070709	B	0.77	7	-70.6	-68.3	1.081	-0.136	-0.247	-1.069
20070713	B	0.59	7	-71.6	-69.1	-0.135	-0.136	-0.434	-1.158
20070713	G	0.89	6	-62.0	-46.8	1.892	-0.591	1.361	1.323
20070725	A	0.53	7	-68.7	-67.6	-0.541	-0.136	0.108	-0.991
20070803	B	0.66	8	-69.8	-66.6	0.338	0.318	-0.097	-0.880
20070808	A	0.78	5	-64.4	-58.3	1.149	-1.045	0.912	0.043
20070809	B	0.81	8	-70.1	-67.6	1.351	0.318	-0.153	-0.991
20070815	B	0.53	9	-66.7	-78.0	-0.541	0.773	0.482	-2.148
20070815	A	0.48	7	-73.0	-68.4	-0.878	-0.136	-0.695	-1.080
20070827	B	0.55	9	-70.4	-69.0	-0.405	0.773	-0.209	-1.147
20070830	A	0.41	8	-71.8	-67.8	-1.351	0.318	-0.471	-1.013
20070913	A	0.64	8	-74.0	-69.1	0.203	0.318	-0.882	-1.158
20070920	B	0.55	7	-67.5	-59.7	-0.405	-0.136	0.333	-0.112
20070925	A	0.47	7	-76.0	-70.3	-0.946	-0.136	-1.256	-1.291
20070928	B	0.59	9	-72.5	-70.3	-0.135	0.773	-0.602	-1.291

NITRILE

LTMS DATE	LAB	VOLC	HARD	TENS	ELON	VOLCYI	HARDYI	TENSYI	ELONYI
20070402	G	1.77	0	-34.5	-56.6	1.250	-0.944	-0.959	-0.854
20070409	A	0.61	4	-33.6	-53.6	-0.131	1.316	-0.836	-0.408
20070419	B	1.52	4	-31.6	-52.3	0.952	1.316	-0.563	-0.214
20070501	A	0.64	4	-42.9	-59.2	-0.095	1.316	-2.105	-1.241
20070510	B	1.35	4	-36.4	-57.0	0.750	1.316	-1.218	-0.914
20070514	A	0.44	4	-31.0	-45.1	-0.333	1.316	-0.482	0.857
20070521	A	0.35	2	-34.7	-40.7	-0.440	0.186	-0.986	1.512
20070528	A	1.07	3	-41.5	-58.0	0.417	0.751	-1.914	-1.063
20070601	B	1.17	4	-38.6	-54.8	0.536	1.316	-1.518	-0.586
20070605	G	1.36	2	-29.0	-56.5	0.762	0.186	-0.209	-0.839
20070612	A	1.03	5	-42.8	-57.6	0.369	1.881	-2.091	-1.003
20070618	B	2.30	5	-39.7	-55.9	1.881	1.881	-1.668	-0.750
20070625	A	1.02	2	-45.3	-61.9	0.357	0.186	-2.432	-1.643
20070628	G	2.22	3	-32.8	-58.5	1.786	0.751	-0.727	-1.137
20070702	B	2.28	4	-36.2	-54.0	1.857	1.316	-1.191	-0.467
20070702	A	2.01	1	-42.6	-55.0	1.536	-0.379	-2.064	-0.616
20070706	B	2.08	4	-40.2	-57.2	1.619	1.316	-1.737	-0.943
20070713	G	2.38	2	-31.8	-58.8	1.976	0.186	-0.591	-1.182
20070717	B	2.22	4	-41.7	-57.7	1.786	1.316	-1.941	-1.018
20070723	A	1.96	3	-50.6	-66.3	1.476	0.751	-3.156	-2.298
20070801	B	2.27	5	-43.2	-59.1	1.845	1.881	-2.146	-1.226
20070806	A	0.74	3	-42.9	-58.3	0.024	0.751	-2.105	-1.107
20070810	B	2.23	4	-38.2	-55.6	1.798	1.316	-1.464	-0.705
20070813	A	1.79	2	-44.8	-59.2	1.274	0.186	-2.364	-1.241
20070822	A	1.87	2	-42.4	-60.3	1.369	0.186	-2.037	-1.405
20070828	B	2.49	5	-40.3	-56.3	2.107	1.881	-1.750	-0.810
20070828	A	2.19	3	-49.2	-63.2	1.750	0.751	-2.965	-1.836
20070911	A	2.16	3	-51.7	-63.0	1.714	0.751	-3.306	-1.807
20070920	B	2.40	4	-43.3	-53.7	2.000	1.316	-2.160	-0.423
20070921	A	2.00	3	-39.1	-56.6	1.524	0.751	-1.587	-0.854

POLYACRYLATE

LTMS DATE	LAB	VOLC	HARD	TENS	ELON	VOLCYI	HARDYI	TENSYI	ELONYI
20070410	A	0.81	0	-3.4	-24.4	-0.039	0.839	-0.527	-0.708
20070416	B	1.35	-1	-7.4	-21.8	0.671	0.283	-1.020	-0.419
20070501	A	0.79	-1	0.4	-16.4	-0.066	0.283	-0.055	0.187
20070509	B	1.08	-1	-3.2	-17.0	0.316	0.283	-0.498	0.122
20070515	A	1.07	0	1.8	-9.3	0.303	0.839	0.119	0.981
20070522	A	1.02	0	-10.0	6.8	0.237	0.839	-1.348	2.782
20070529	B	1.40	-2	7.0	-16.2	0.737	-0.272	0.771	0.213
20070529	A	0.77	1	0.3	-28.9	-0.092	1.394	-0.067	-1.211
20070605	G	1.59	0	-3.2	-29.8	0.987	0.839	-0.502	-1.312
20070613	A	1.28	2	4.2	-31.6	0.579	1.950	0.418	-1.513
20070615	B	1.28	0	-2.7	-16.7	0.579	0.839	-0.438	0.157
20070626	A	1.19	-1	0.3	-20.3	0.461	0.283	-0.067	-0.249
20070628	G	0.03	2	3.7	-17.1	-1.066	1.950	0.356	0.109
20070628	B	1.88	0	5.7	-13.2	1.368	0.839	0.604	0.550
20070703	A	1.57	-2	-3.4	-21.6	0.961	-0.272	-0.527	-0.395
20070710	B	1.66	-3	4.0	-14.0	1.079	-0.828	0.387	0.454
20070713	G	1.50	-1	12.6	-28.6	0.868	0.283	1.463	-1.178
20070716	B	1.94	-2	5.2	-6.7	1.447	-0.272	0.537	1.268
20070724	A	1.16	-1	-1.7	-26.6	0.421	0.283	-0.316	-0.954
20070731	B	1.96	-1	-1.5	-21.0	1.474	0.283	-0.291	-0.329
20070802	G	2.17	-3	3.9	-8.6	1.750	-0.828	0.381	1.059
20070807	A	1.51	-3	3.4	-29.5	0.882	-0.828	0.318	-1.279
20070808	B	1.88	-1	8.5	-16.2	1.368	0.283	0.949	0.207
20070814	A	1.62	-2	-6.6	-8.7	1.026	-0.272	-0.925	1.048
20070824	B	2.07	-2	5.2	-10.9	1.618	-0.272	0.542	0.806
20070829	A	1.95	-2	-0.7	-15.3	1.461	-0.272	-0.192	0.310
20070905	B	1.65	0	-3.7	-18.9	1.066	0.839	-0.565	-0.094
20070912	A	1.76	-2	-8.5	-14.5	1.211	-0.272	-1.162	0.399
20070921	B	2.10	-2	0.2	-13.9	1.658	-0.272	-0.080	0.470
20070924	A	1.81	-1	-7.1	-21.7	1.276	0.283	-0.988	-0.406
20070928	B	1.77	-2	4.9	-17.0	1.224	-0.272	0.501	0.120

SILICONE

LTMS DATE	LAB	VOLC	HARD	TENS	ELON	VOLCYI	HARDYI	TENSYI	ELONYI
20070412	A	25.82	-20	-17.2	-17.5	-0.247	-0.604	-0.843	0.827
20070417	B	28.79	-20	-20.9	-23.1	1.062	-0.604	-1.710	0.022
20070501	A	26.89	-20	-21.2	-20.1	0.225	-0.604	-1.780	0.453
20070511	B	28.43	-19	-13.1	-18.6	0.903	-0.187	0.117	0.669
20070517	A	25.64	-20	-13.4	-0.4	-0.326	-0.604	0.047	3.288
20070524	A	26.69	-20	-15.0	-11.5	0.137	-0.604	-0.328	1.691
20070531	A	26.28	-20	-13.1	-21.3	-0.044	-0.604	0.117	0.281
20070605	G	28.42	-16	-15.1	-29.2	0.899	1.063	-0.351	-0.856
20070605	B	29.87	-20	-14.6	-17.4	1.537	-0.604	-0.234	0.842
20070615	A	26.97	-19	-17.6	-29.0	0.260	-0.187	-0.937	-0.827
20070618	A	27.60	-21	-15.6	-16.8	0.537	-1.021	-0.468	0.928
20070619	B	28.68	-20	-13.5	-16.9	1.013	-0.604	0.023	0.914
20070628	G	26.88	-15	-16.9	-32.0	0.220	1.479	-0.773	-1.259
20070628	A	26.80	-20	-15.2	-18.4	0.185	-0.604	-0.375	0.698
20070703	B	29.18	-20	-18.6	-22.3	1.233	-0.604	-1.171	0.137
20070705	A	27.93	-20	-11.3	-8.7	0.683	-0.604	0.539	2.094
20070712	B	29.58	-20	-18.6	-18.2	1.410	-0.604	-1.171	0.727
20070713	G	28.51	-16	-18.9	-18.6	0.938	1.063	-1.241	0.669
20070720	B	28.45	-19	-15.6	-19.0	0.912	-0.187	-0.468	0.612
20070726	A	25.90	-20	-18.6	-16.6	-0.211	-0.604	-1.171	0.957
20070730	B	29.22	-20	-14.3	-18.6	1.251	-0.604	-0.164	0.669
20070807	B	29.18	-19	-15.6	-21.1	1.233	-0.187	-0.468	0.309
20070809	A	25.84	-20	-9.7	-11.2	-0.238	-0.604	0.913	1.734
20070816	A	26.60	-20	-16.7	-21.6	0.097	-0.604	-0.726	0.237
20070830	B	29.57	-19	-15.4	-19.1	1.405	-0.187	-0.422	0.597
20070831	A	28.95	-21	-14.4	-7.6	1.132	-1.021	-0.187	2.252
20070914	A	26.29	-19	-14.4	-19.8	-0.040	-0.187	-0.187	0.496
20070921	B	29.64	-19	-19.4	-23.8	1.436	-0.187	-1.358	-0.079
20070926	A	25.87	-20	-15.7	-23.2	-0.225	-0.604	-0.492	0.007

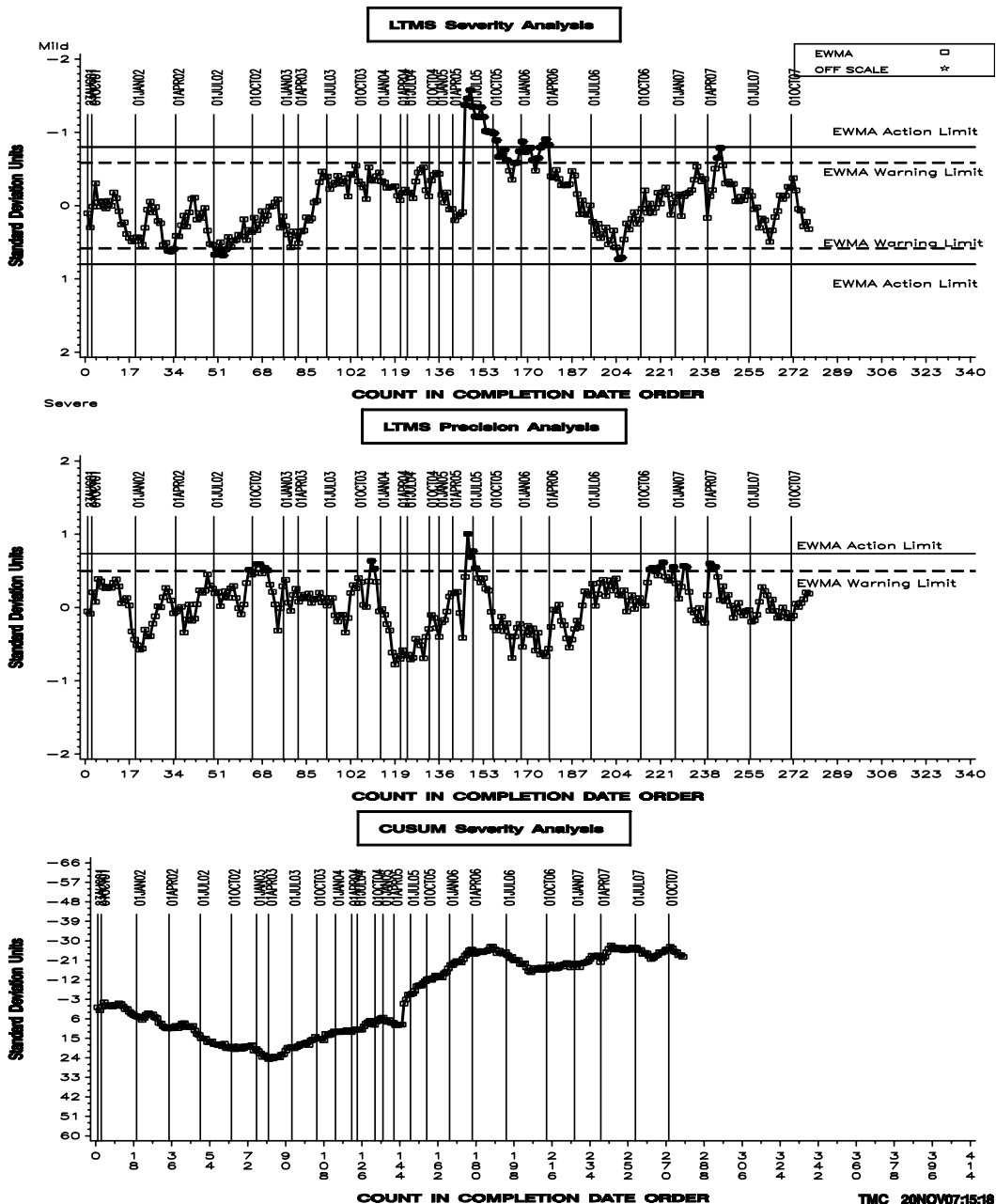
VAMAC

LTMS DATE	LAB	VOLC	HARD	TENS	ELON	VOLCYI	HARDYI	TENSYI	ELONYI
20070413	A	20.41	-8	-10.9	-24.2	1.107	0.095	1.871	0.238
20070501	A	19.12	-9	-15.2	-18.7	0.556	-0.958	1.235	0.686
20070514	B	21.36	-10	-13.1	-37.8	1.513	-2.011	1.546	-0.870
20070601	A	19.58	-10	-12.7	-30.0	0.752	-2.011	1.605	-0.235
20070607	B	20.78	-10	-9.9	-28.0	1.265	-2.011	2.019	-0.072
20070618	A	18.95	-9	-7.2	-25.3	0.483	-0.958	2.419	0.148
20070620	B	21.31	-9	-9.5	-30.5	1.491	-0.958	2.078	-0.275
20070628	G	20.66	-9	-21.5	-30.3	1.214	-0.958	0.303	-0.259
20070629	B	21.23	-10	-11.1	-28.6	1.457	-2.011	1.842	-0.121
20070629	A	19.61	-10	-5.2	-21.0	0.765	-2.011	2.714	0.498
20070711	B	21.14	-10	-12.3	-32.9	1.419	-2.011	1.664	-0.471
20070713	G	22.37	-10	-28.0	-6.8	1.944	-2.011	-0.658	1.655
20070719	B	21.02	-10	-9.8	-23.6	1.368	-2.011	2.034	0.287
20070727	A	20.24	-10	-18.4	-22.5	1.034	-2.011	0.762	0.376
20070802	B	21.01	-10	-12.1	-22.0	1.363	-2.011	1.694	0.417
20070806	B	14.11	-6	-6.7	-30.6	-1.585	2.200	2.493	-0.283
20070810	A	19.45	-10	-16.2	-5.9	0.697	-2.011	1.087	1.728
20070817	A	19.63	-8	-15.9	-12.7	0.774	0.095	1.132	1.174
20070820	B	20.66	-9	-9.6	-25.4	1.214	-0.958	2.064	0.140
20070831	B	21.53	-9	-8.9	-26.9	1.585	-0.958	2.167	0.018
20070903	A	20.54	-10	-6.4	-13.9	1.162	-2.011	2.537	1.077
20070918	A	20.95	-10	-9.1	-30.8	1.338	-2.011	2.138	-0.300
20070921	B	18.68	-9	-9.0	-21.1	0.368	-0.958	2.152	0.490
20070927	A	19.52	-9	-12.0	-15.7	0.726	-0.958	1.709	0.930

LTMS CONTROL CHARTS

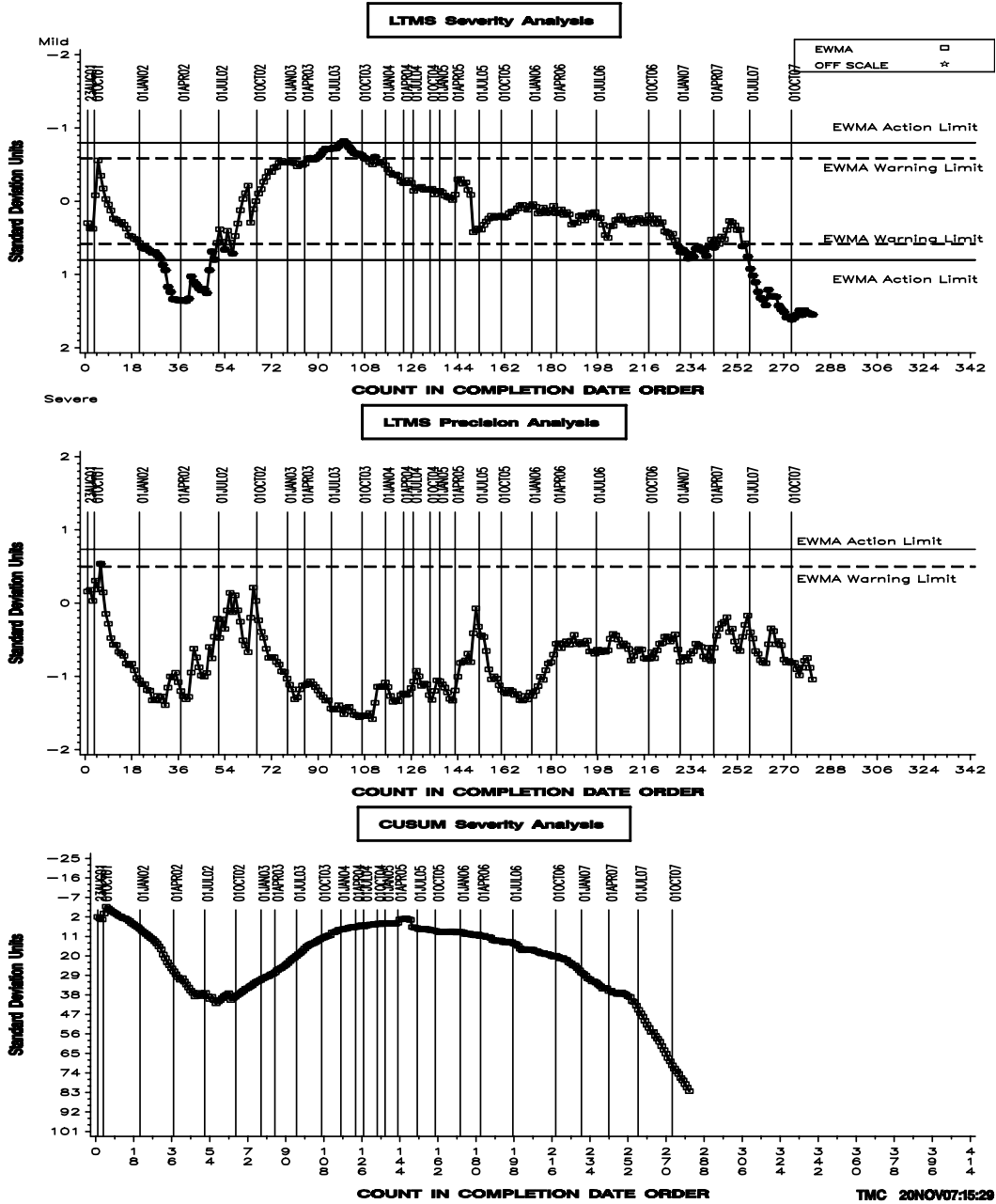
EOEC – FLUROELASTOMER INDUSTRY OPERATIONALLY VALID DATA

REFERENCE FLUROELASTOMER VOLUME CHANGE AVERAGE



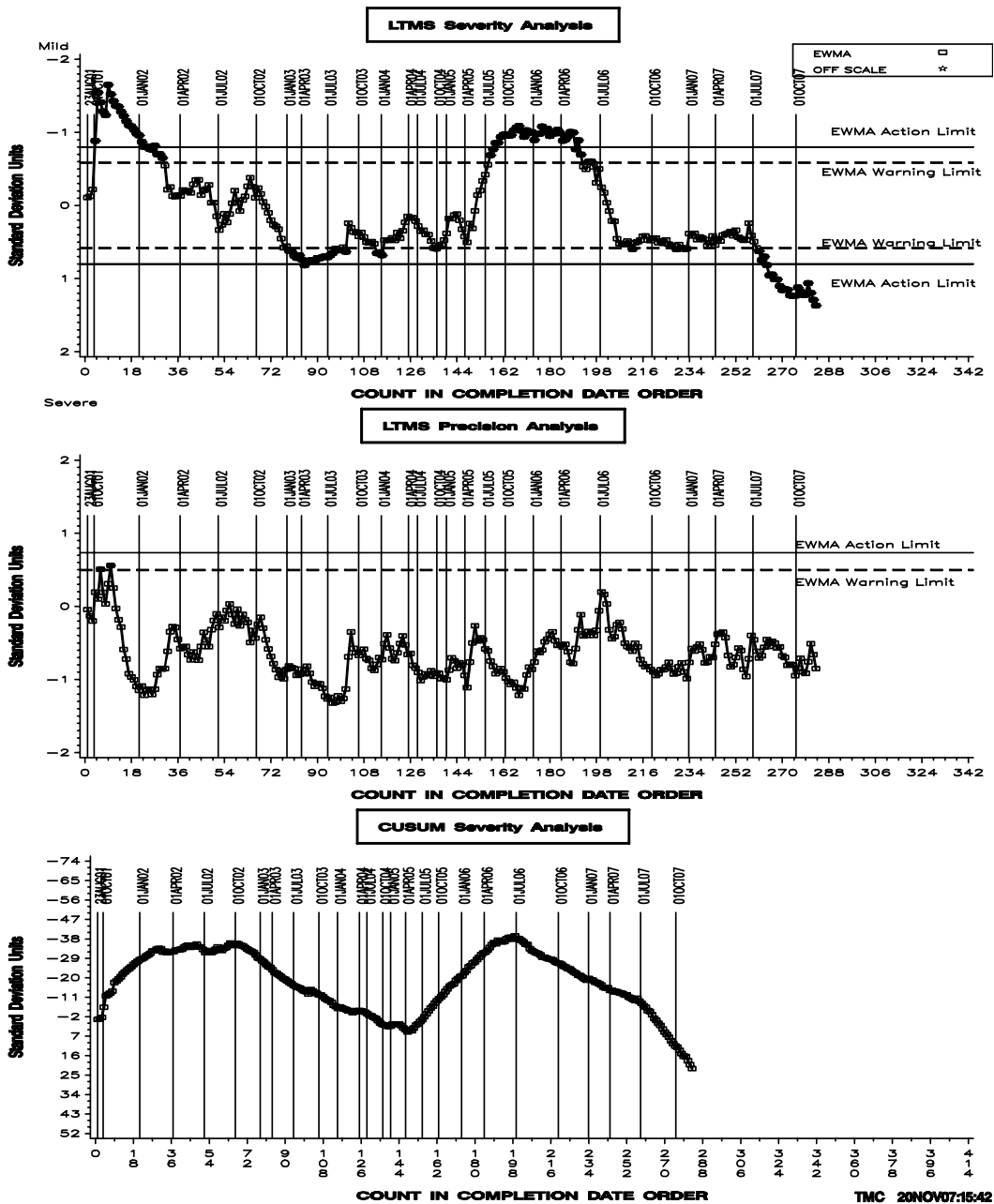
EOEC – NITRILE INDUSTRY OPERATIONALLY VALID DATA

REFERENCE NITRILE VOLUME CHANGE AVERAGE



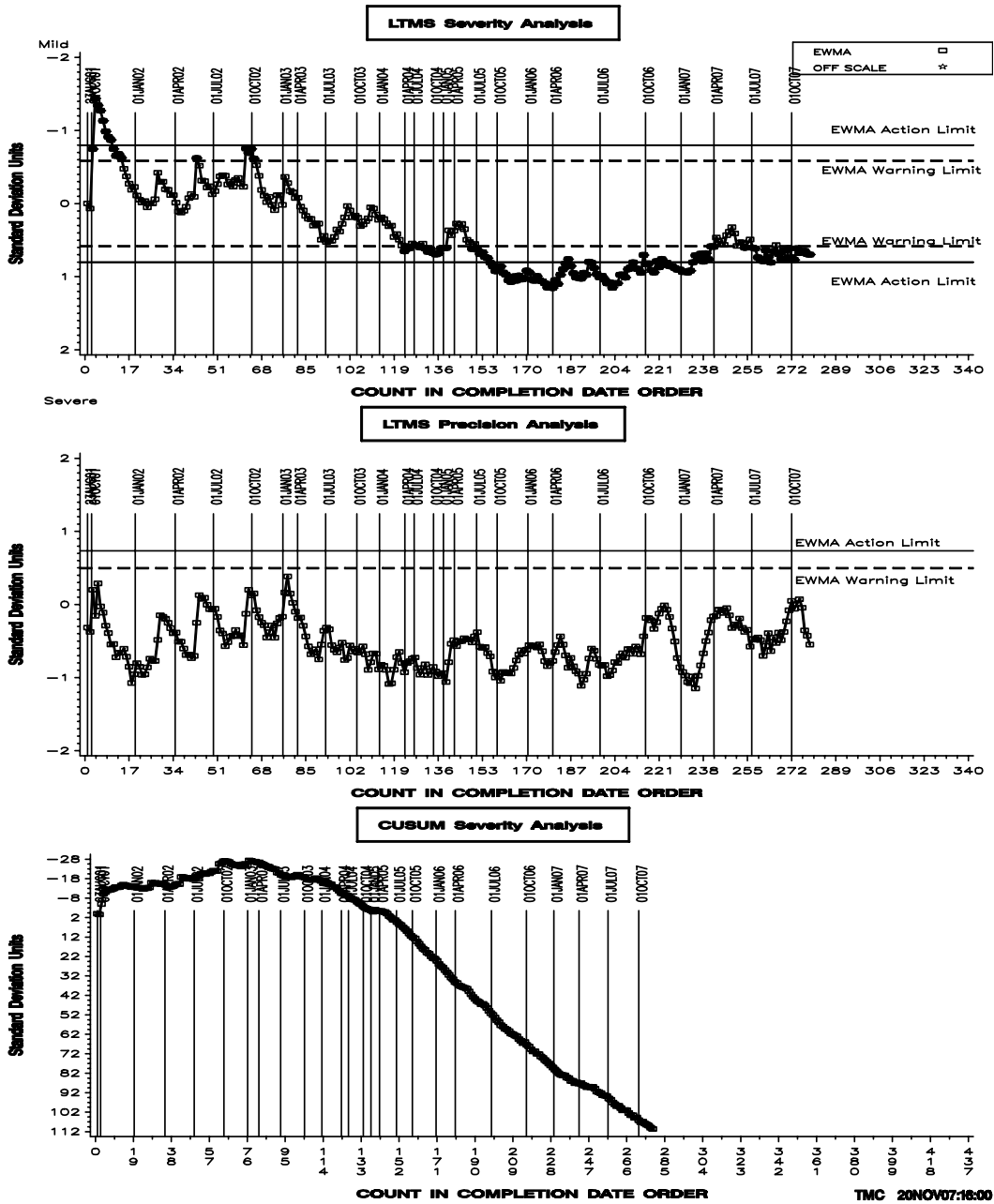
EOEC – POLYACRYLATE INDUSTRY OPERATIONALLY VALID DATA

REFERENCE POLYACRYLATE VOLUME CHANGE AVERAGE



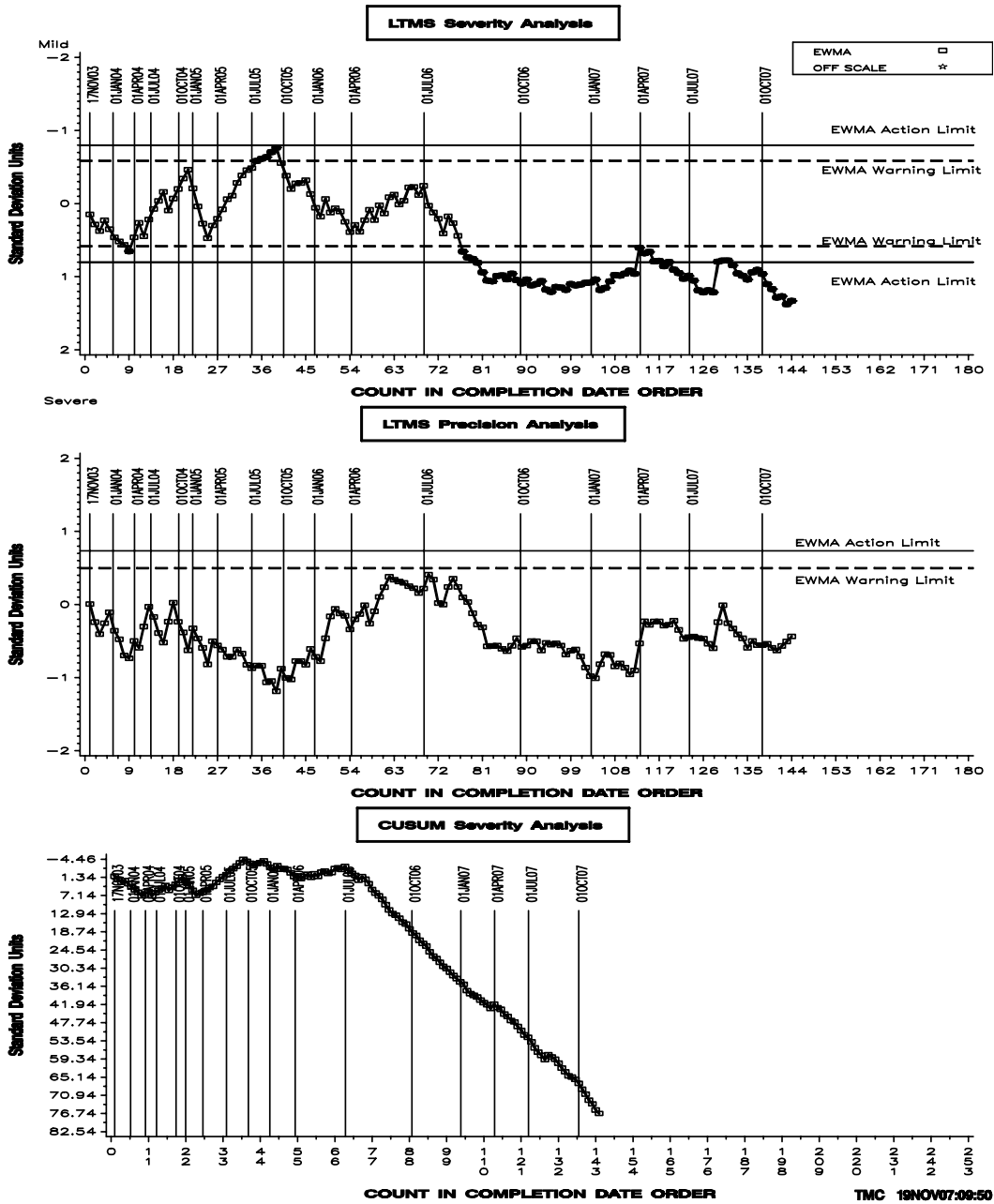
EOEC – SILICONE INDUSTRY OPERATIONALLY VALID DATA

REFERENCE SILICON VOLUME CHANGE AVERAGE



EOEC – VAMAC INDUSTRY OPERATIONALLY VALID DATA

REFERENCE VAMAC G VOLUME CHANGE AVERAGE



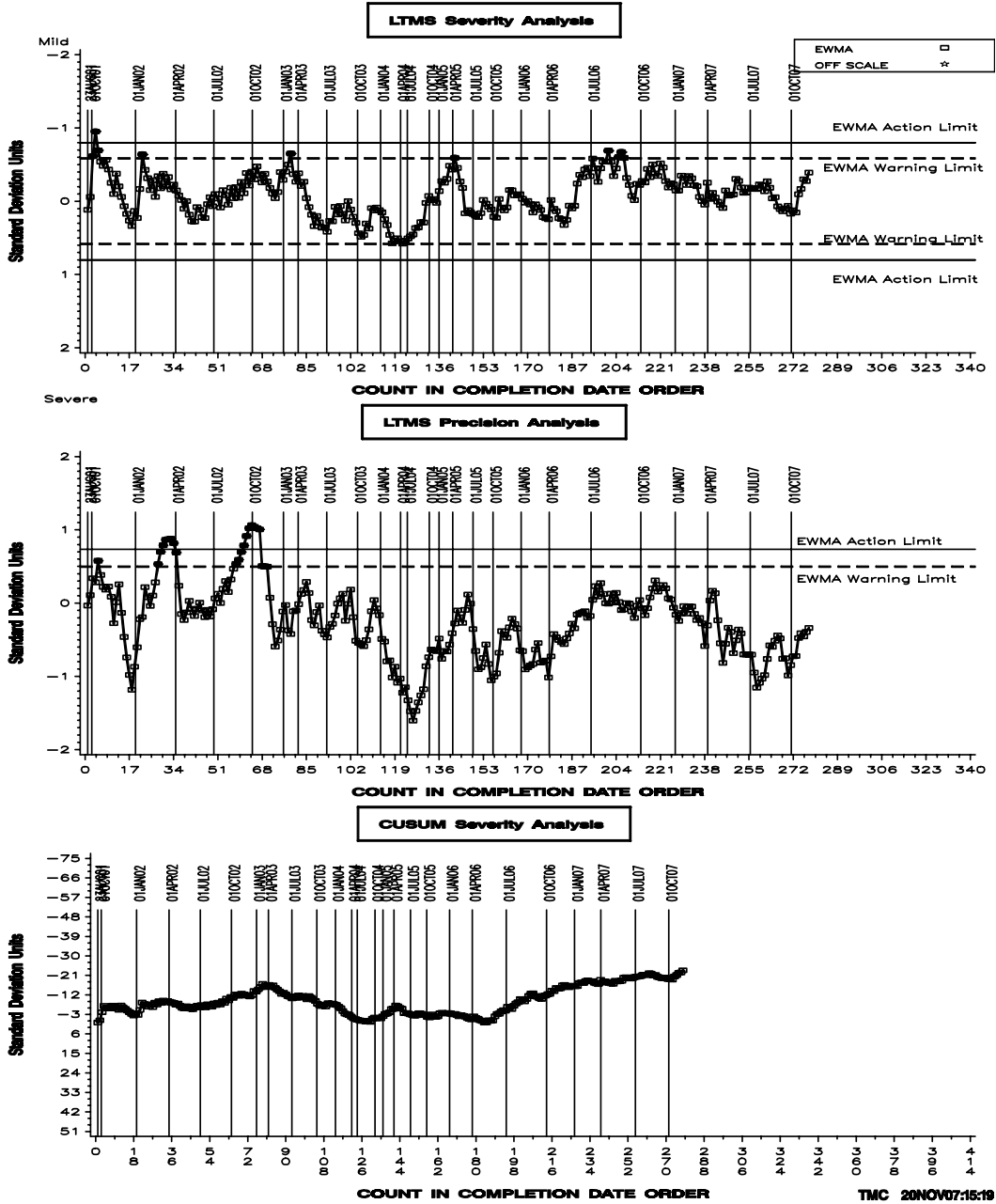
EWMA □
OFF SCALE *

EWMA Action Limit
EWMA Warning Limit
EWMA Warning Limit
EWMA Action Limit

EWMA Action Limit
EWMA Warning Limit

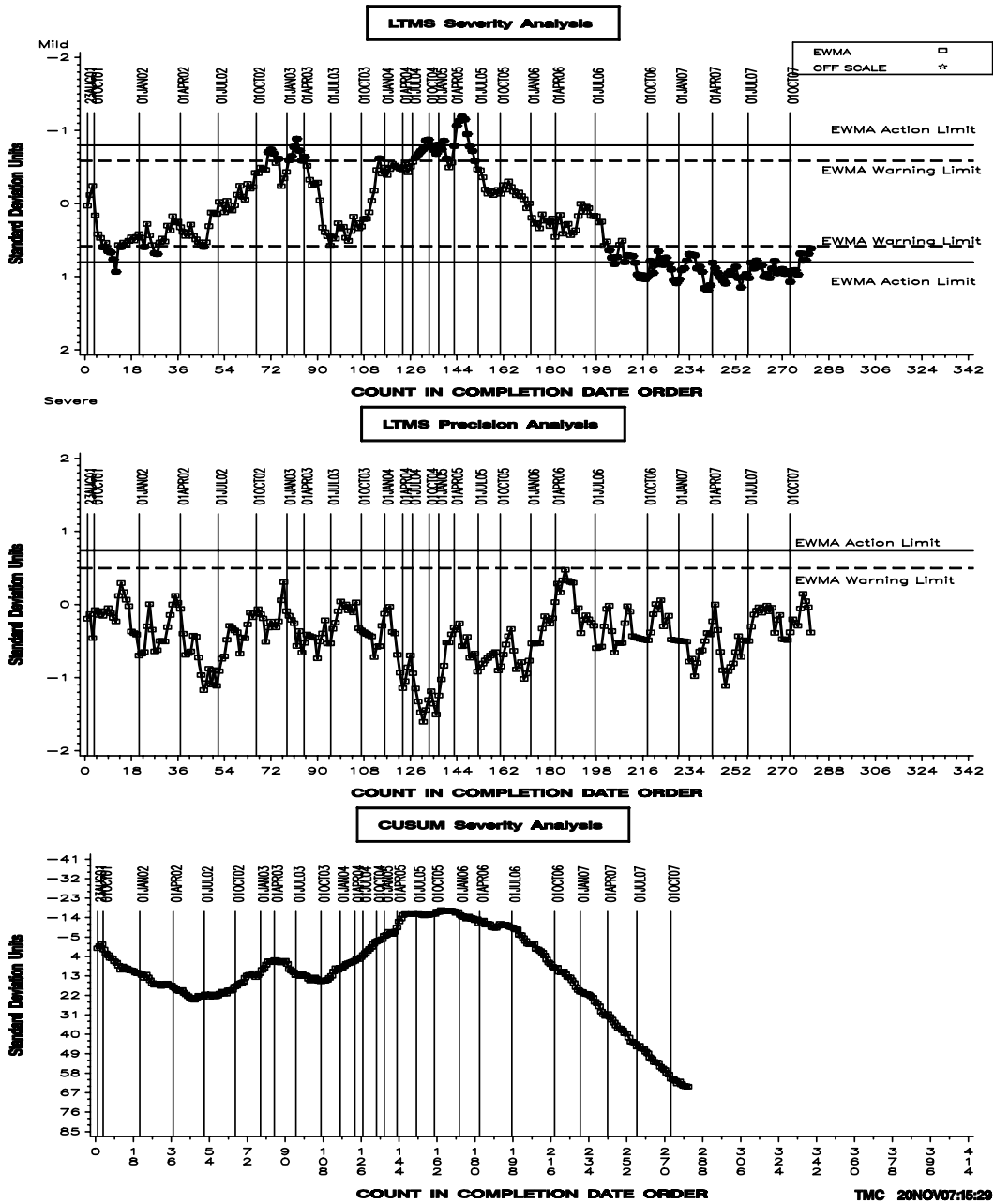
EOEC – FLUROELASTOMER INDUSTRY OPERATIONALLY VALID DATA

REFERENCE FLUROELASTOMER POINTS HARDNESS CHANGE A



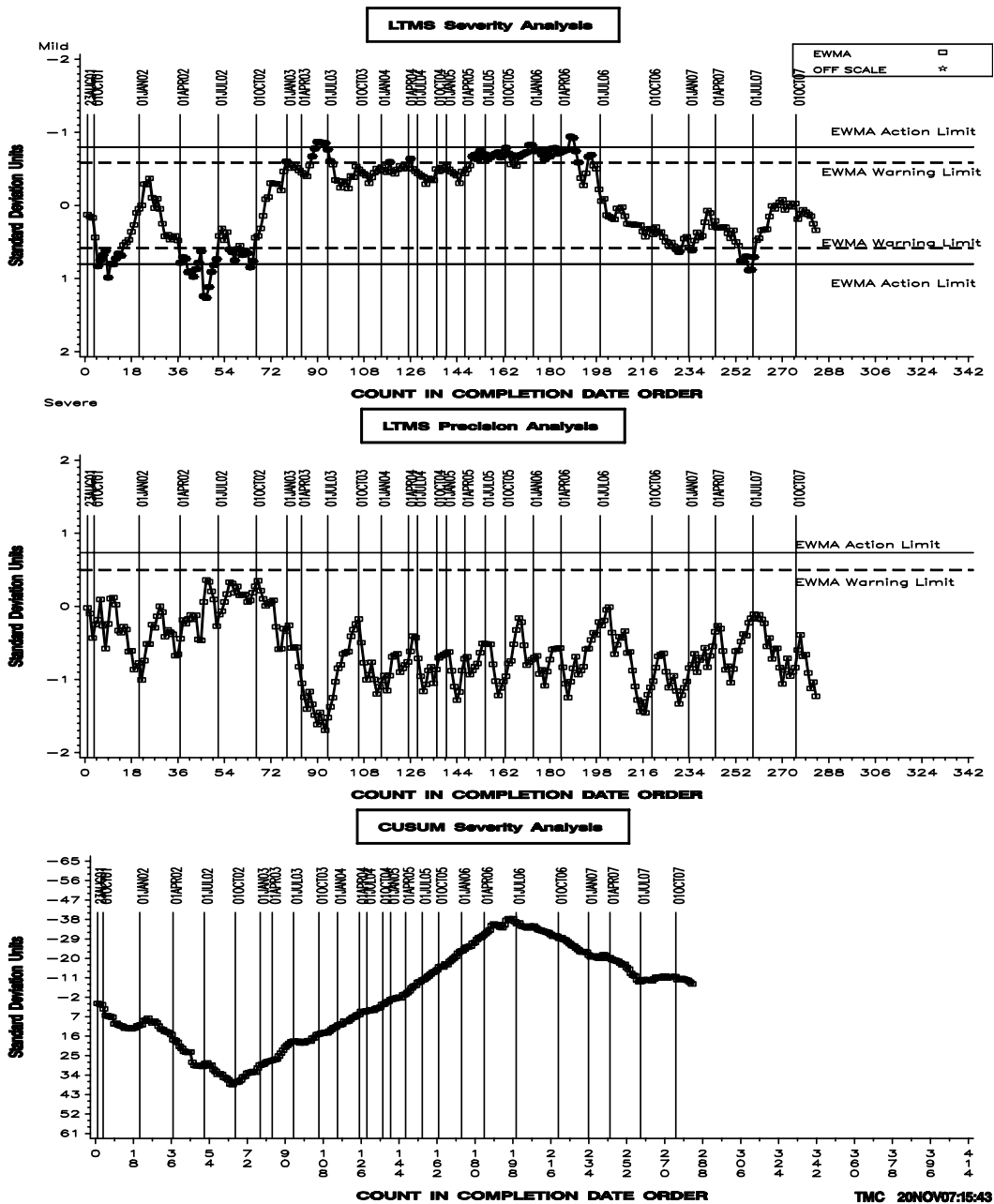
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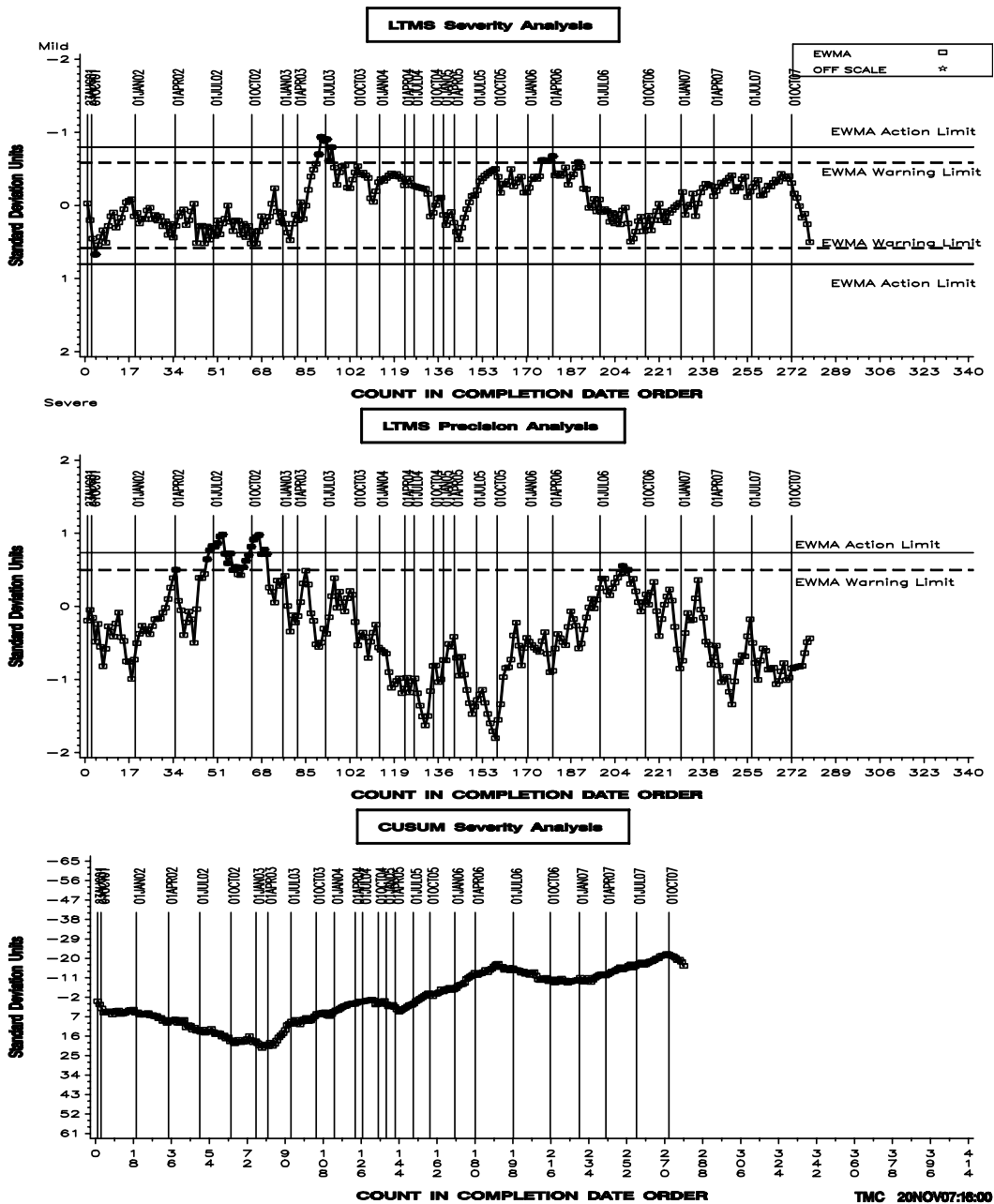
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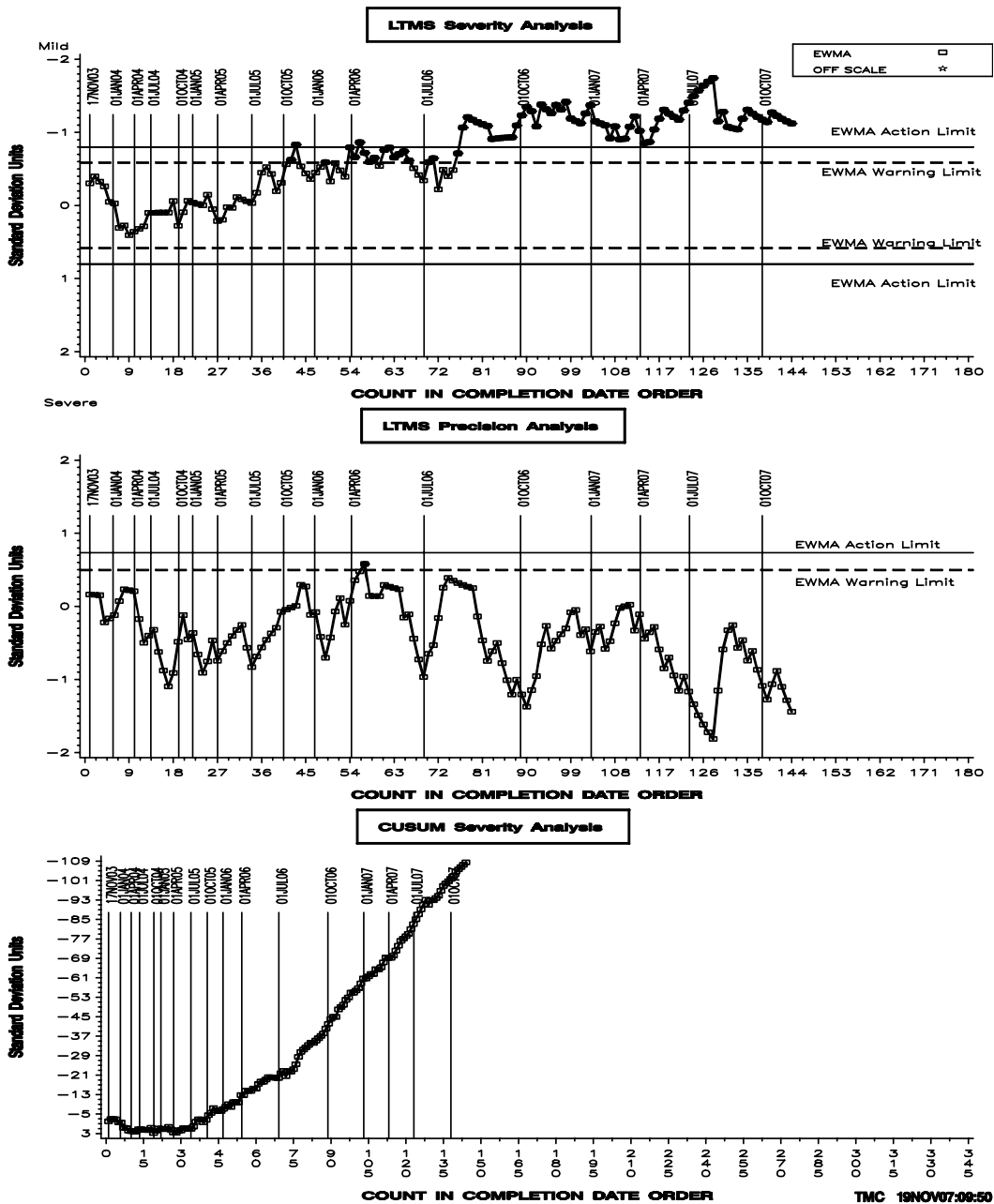
EOEC – SILICONE INDUSTRY OPERATIONALLY VALID DATA

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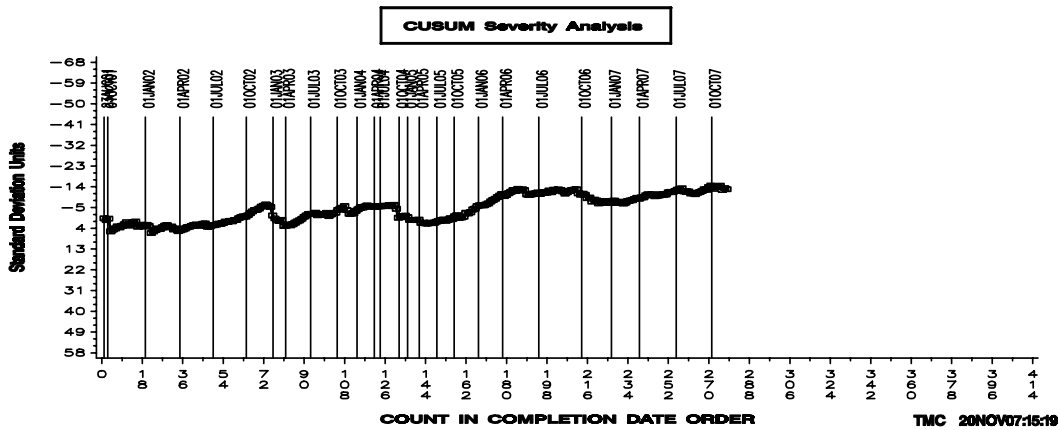
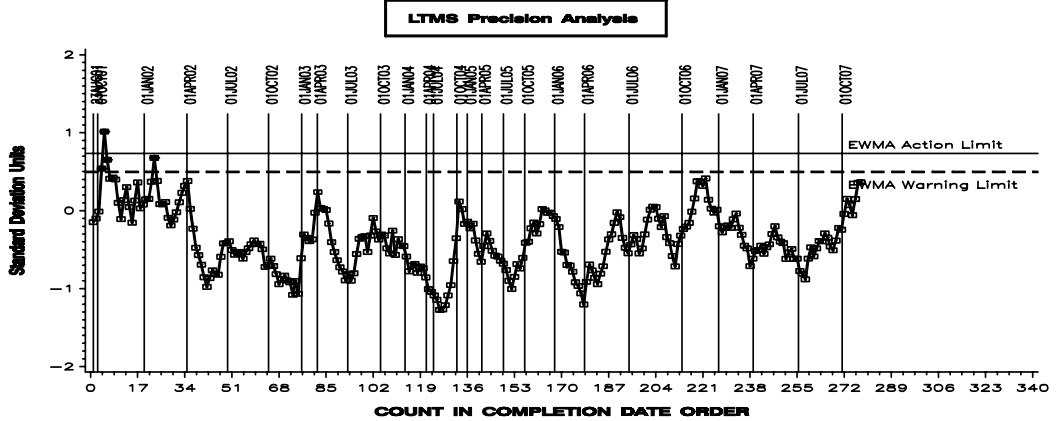
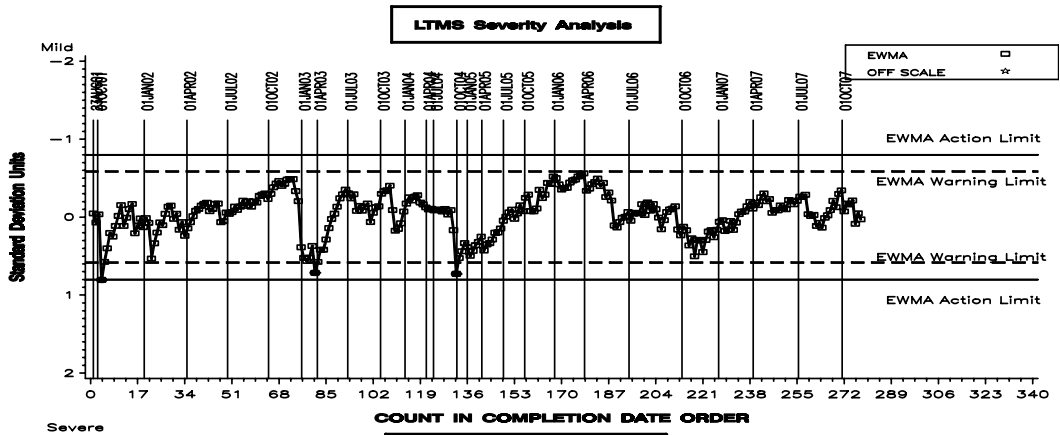
EOEC – VAMAC INDUSTRY OPERATIONALLY VALID DATA

REFERENCE VAMAC G POINTS HARDNESS CHANGE AVERAGE



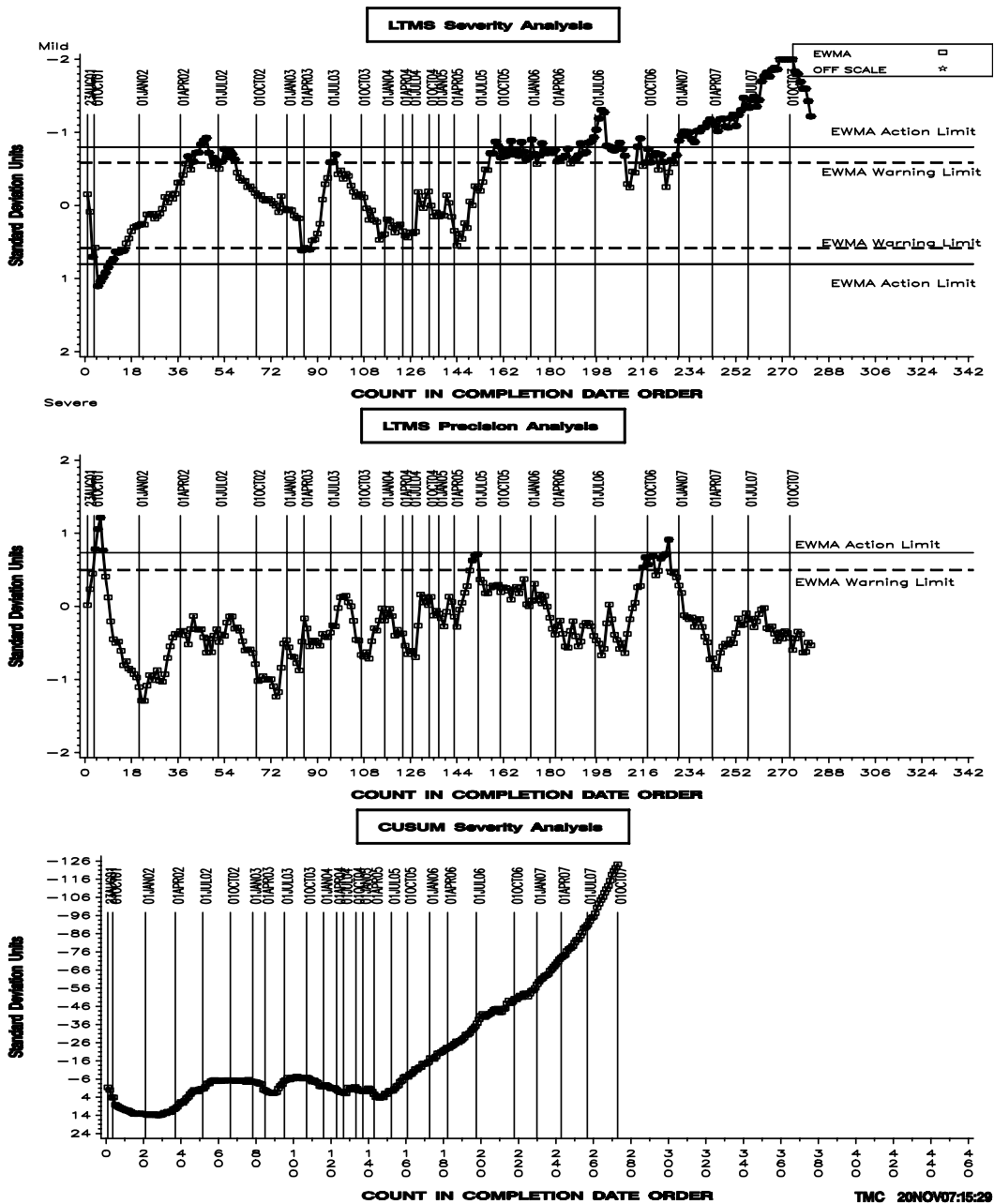
EOEC – FLUROELASTOMER INDUSTRY OPERATIONALLY VALID DATA

REFERENCE FLUROELASTOMER TENSILE STRENGTH CHANGE



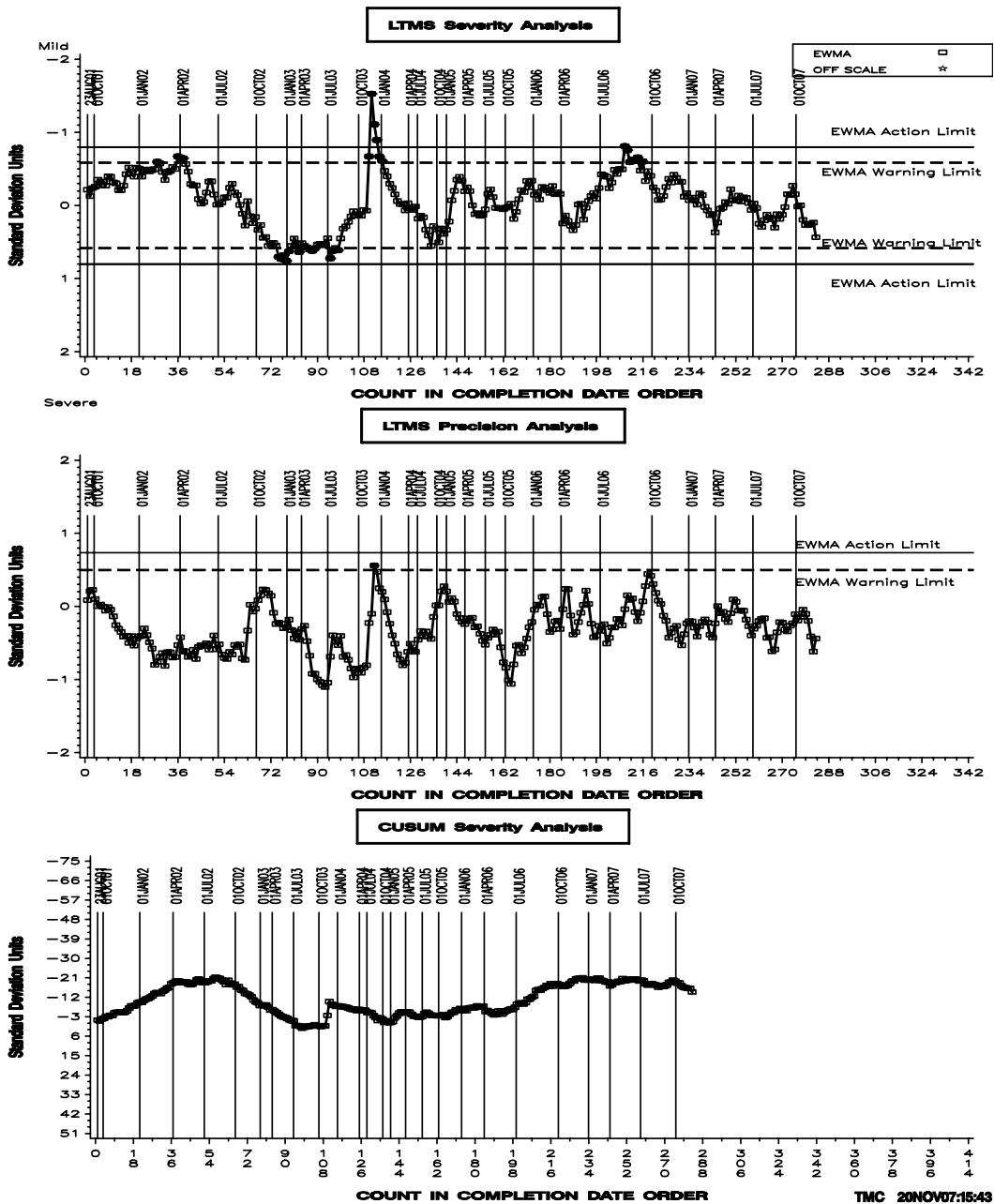
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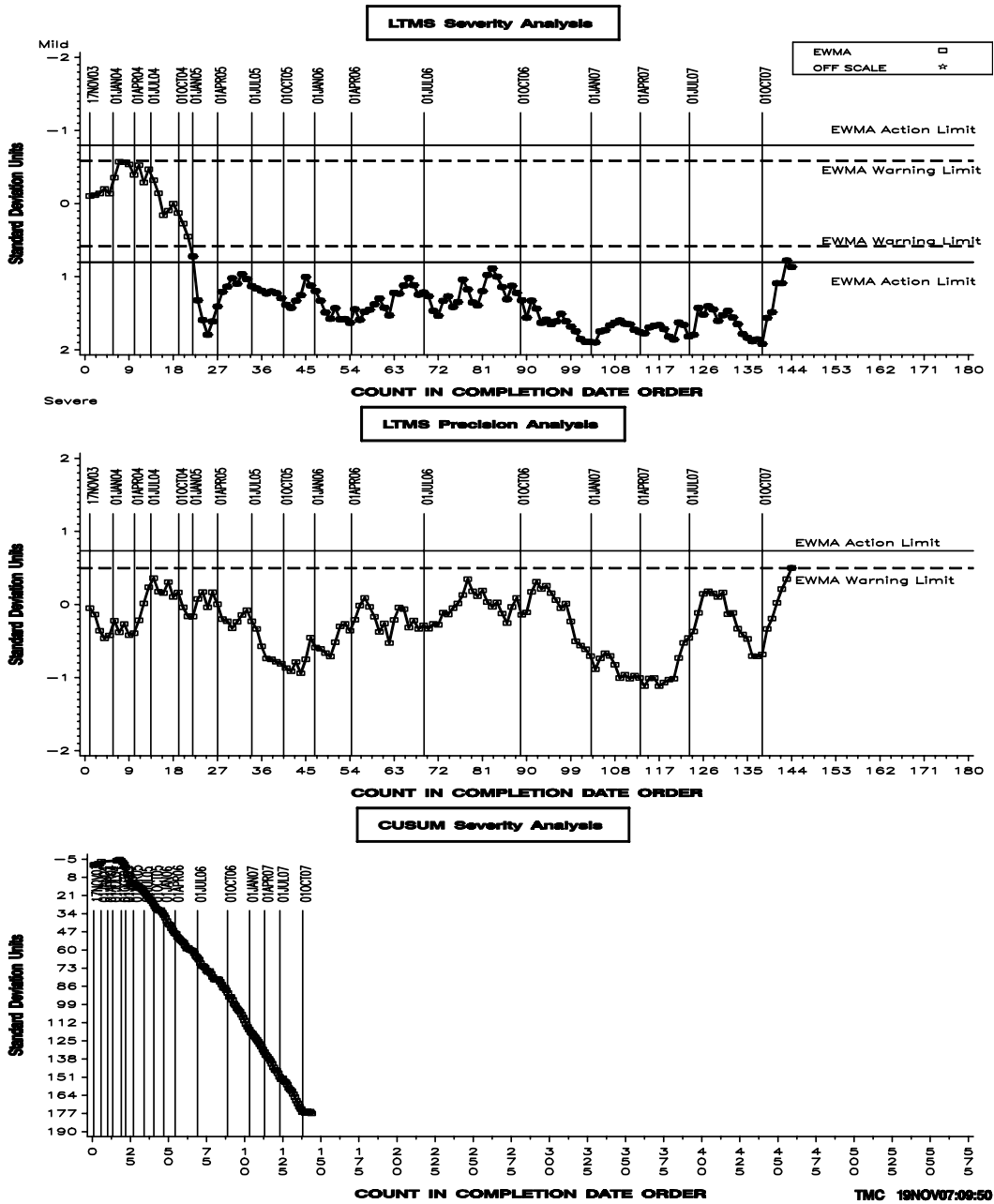
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REFERENCE POLYACRYLATE TENSILE STRENGTH CHANGE AVE



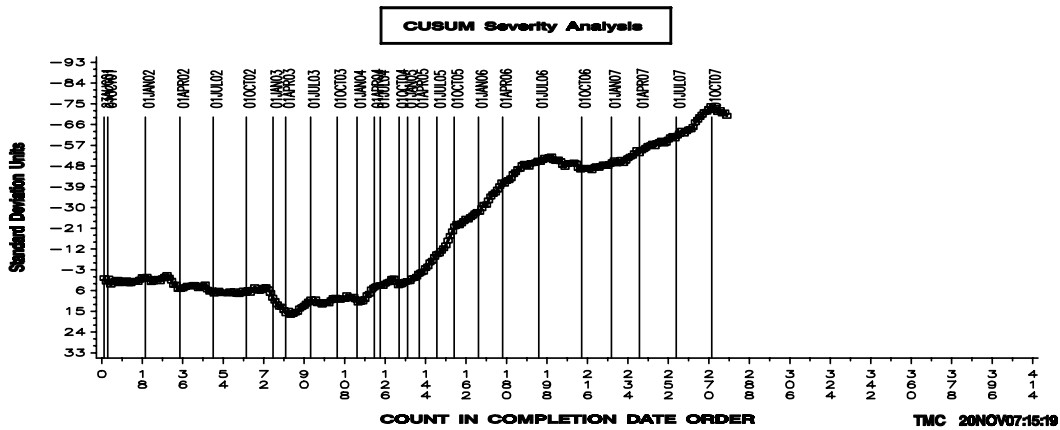
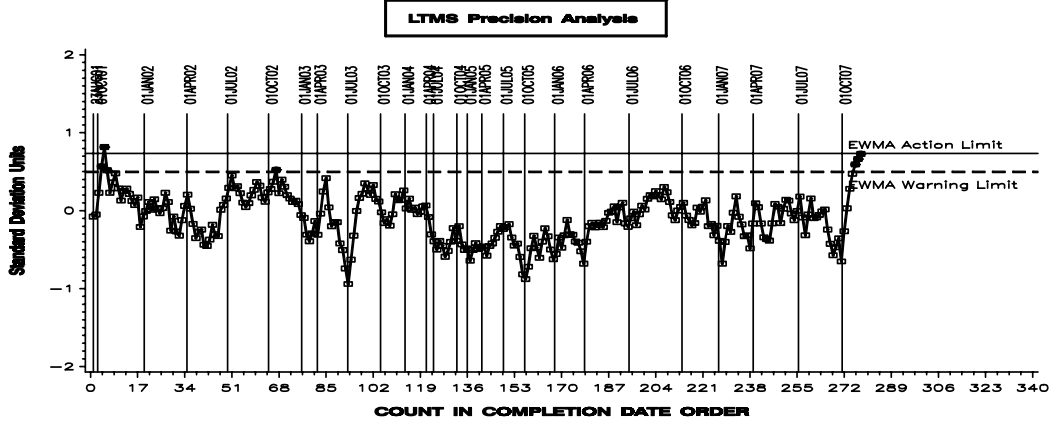
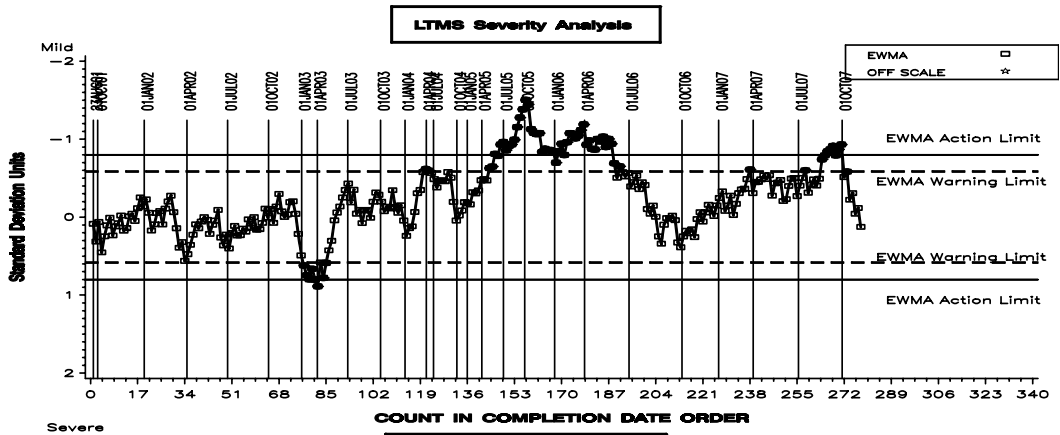
EOEC – VAMAC INDUSTRY OPERATIONALLY VALID DATA

REFERENCE VAMAC G TENSILE STRENGTH CHANGE AVERAGE



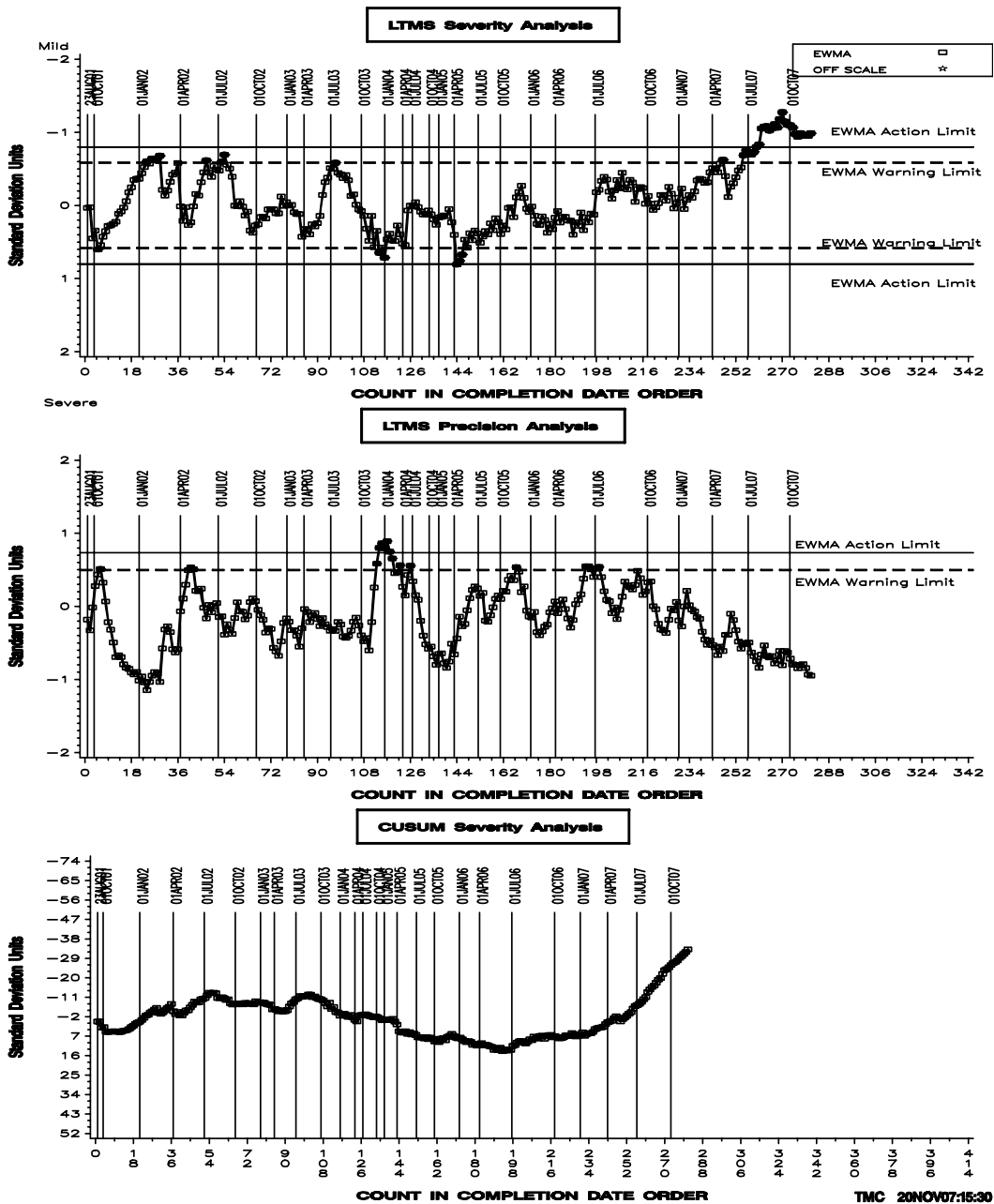
EOEC – FLUROELASTOMER INDUSTRY OPERATIONALLY VALID DATA

REFERENCE FLUROELASTOMER ELONGATION CHANGE AVERAG



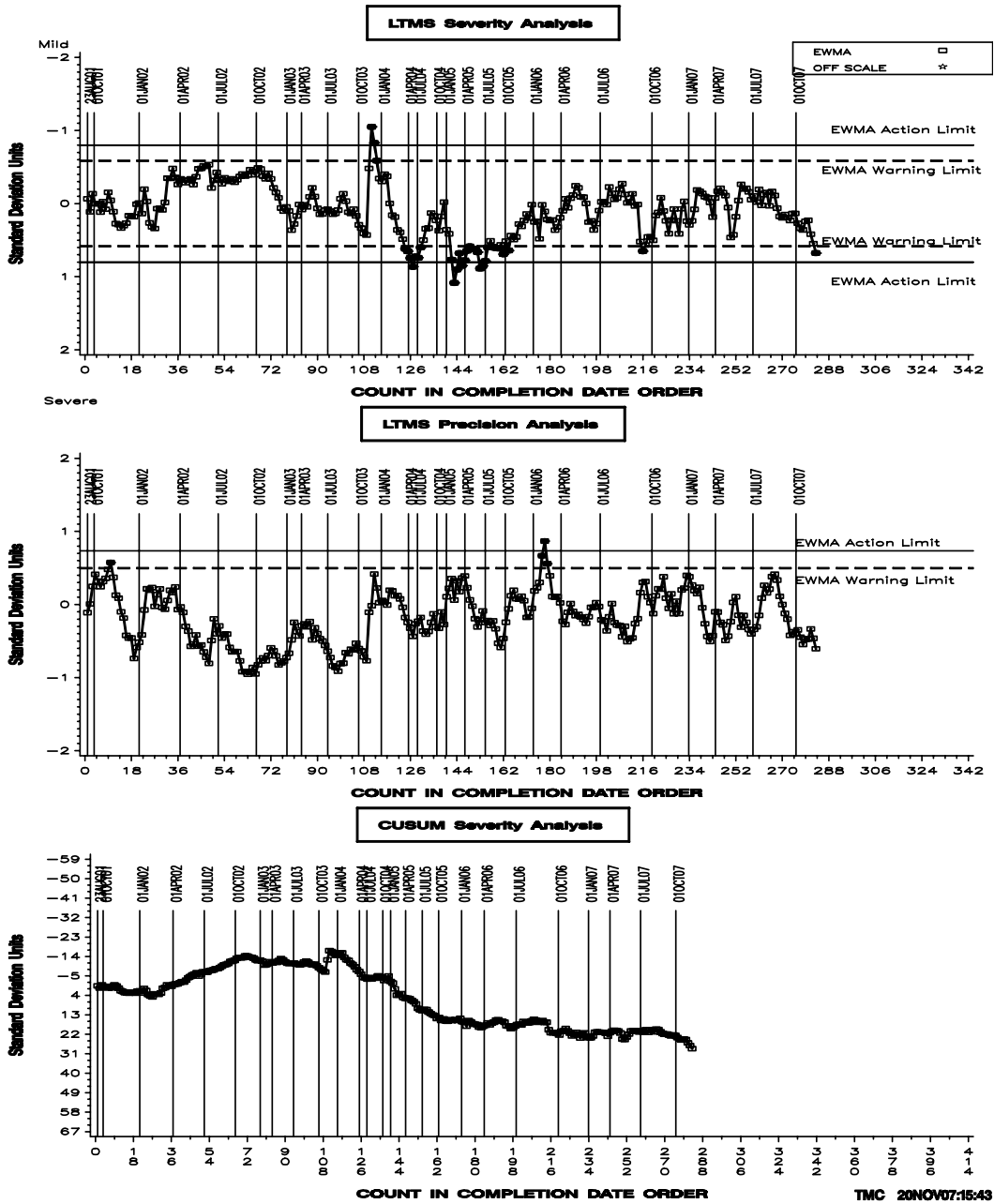
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REFERENCE NITRILE ELONGATION CHANGE AVERAGE



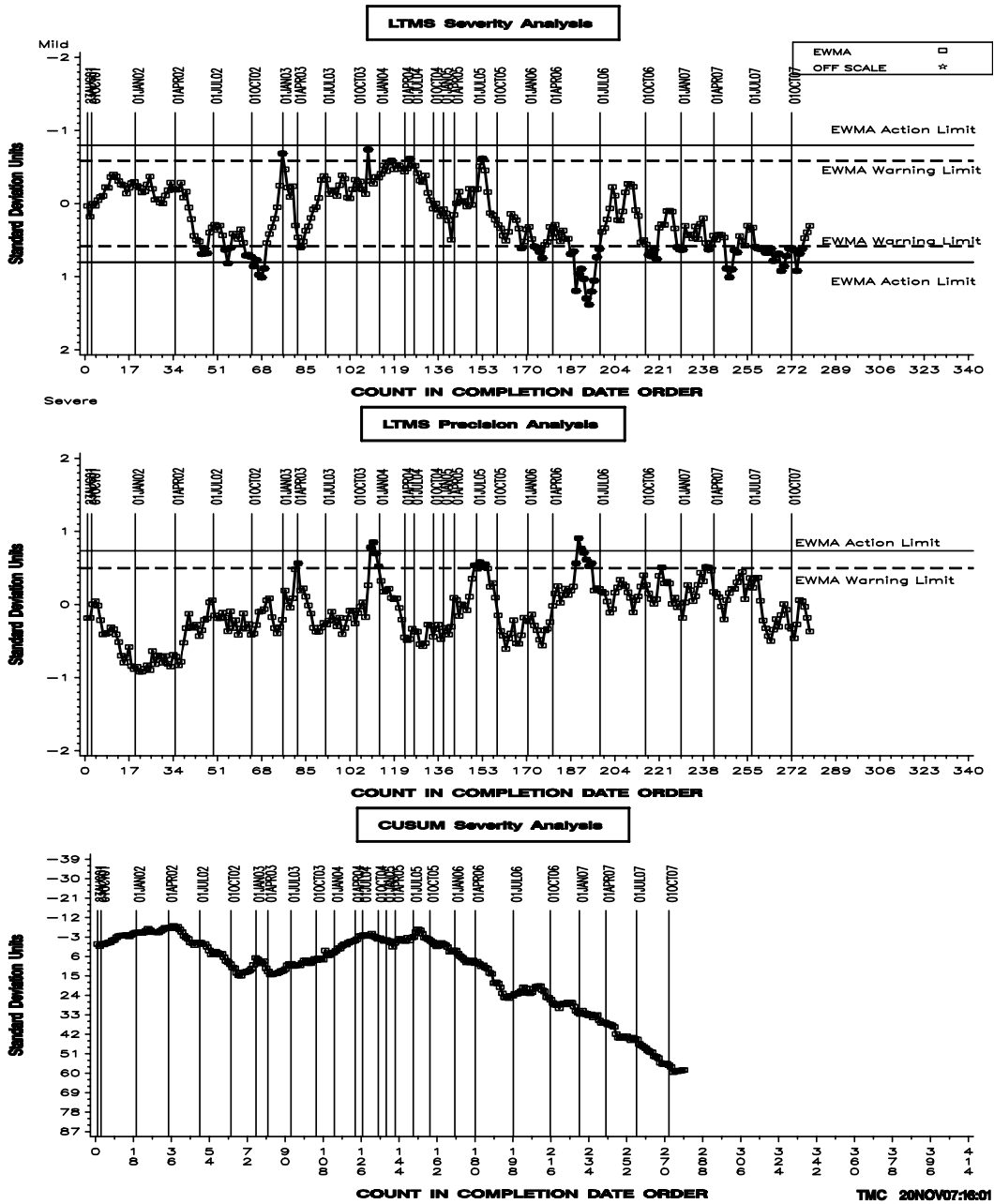
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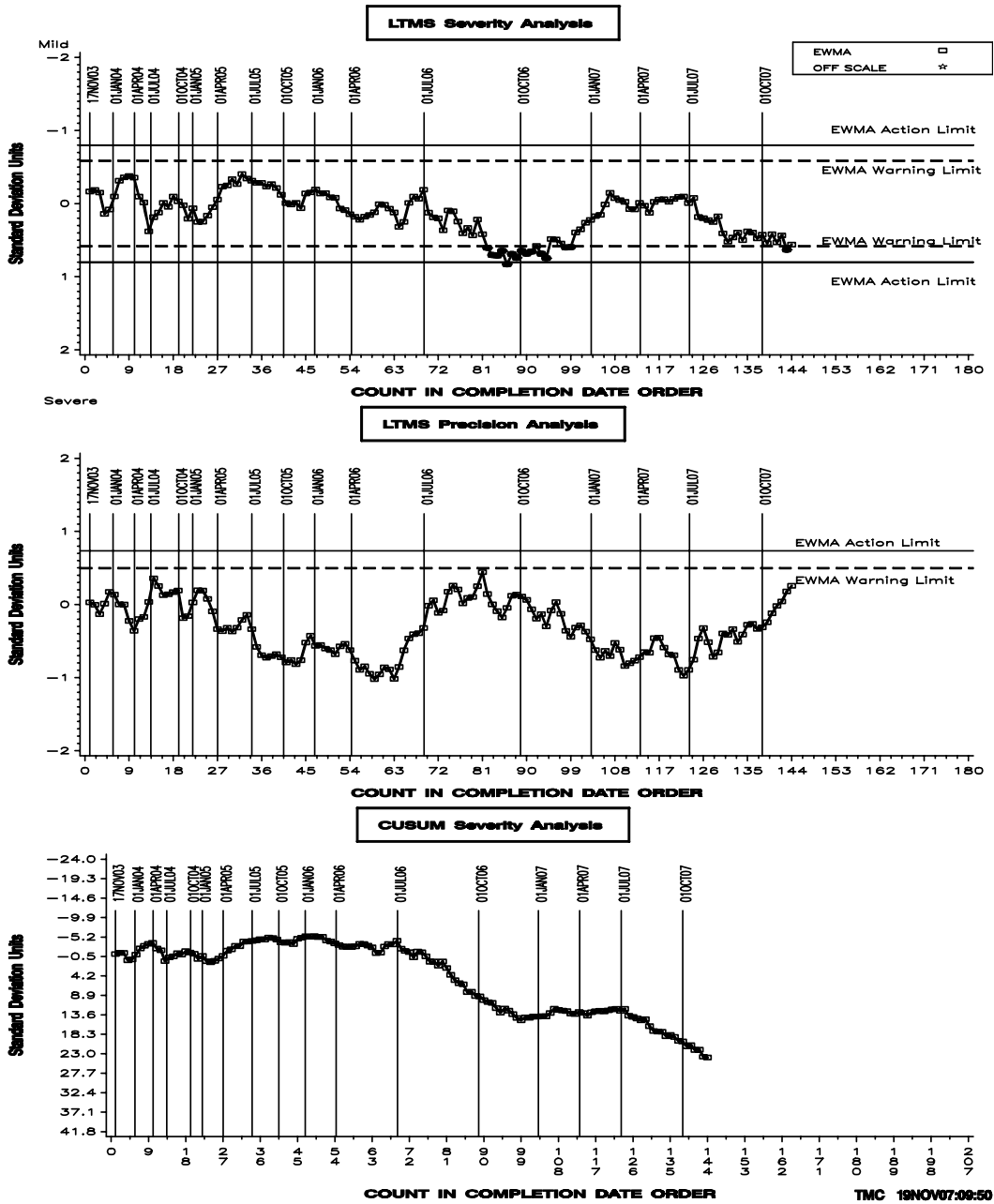
EOEC – SILICONE INDUSTRY OPERATIONALLY VALID DATA

REFERENCE SILICON ELONGATION CHANGE AVERAGE



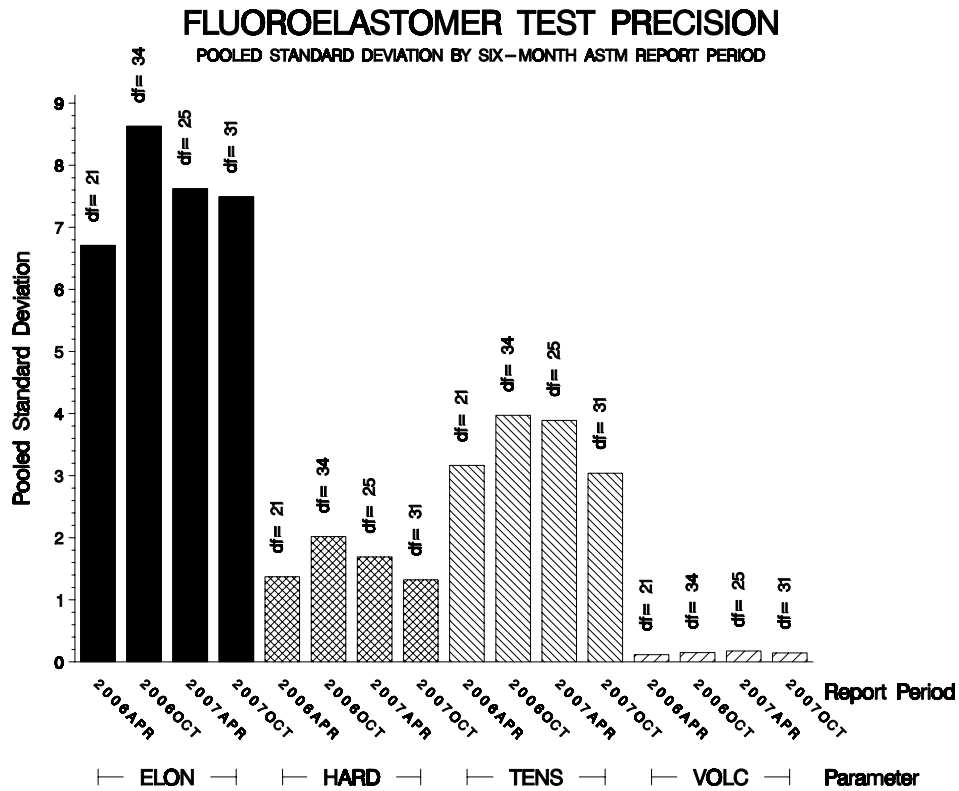
EOEC – VAMAC INDUSTRY OPERATIONALLY VALID DATA

REFERENCE VAMAC G ELONGATION CHANGE AVERAGE



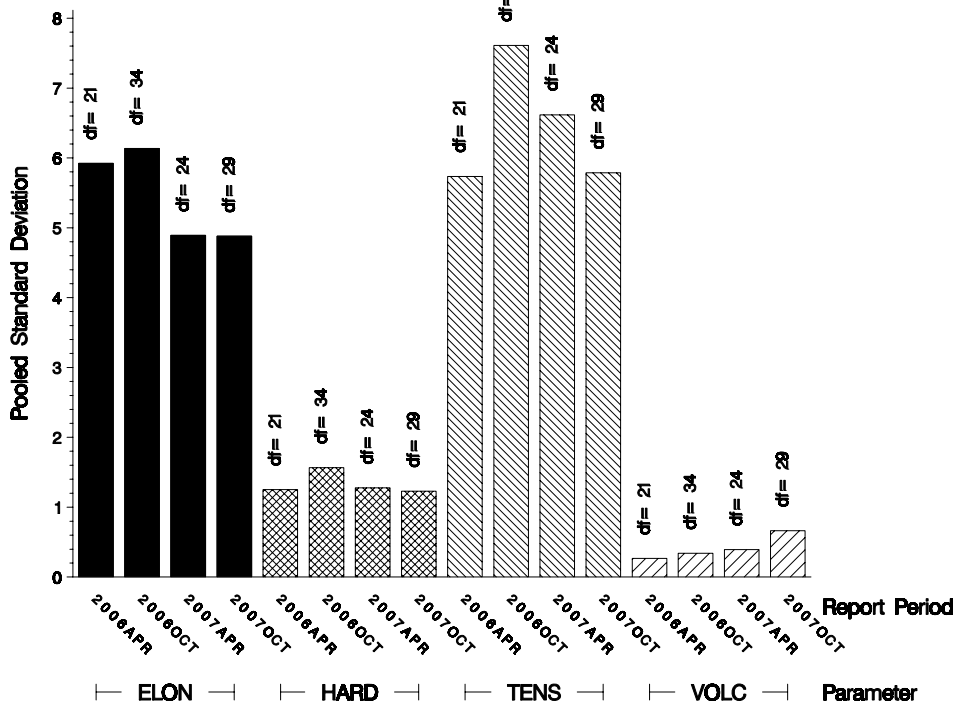
POOLED S:

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.



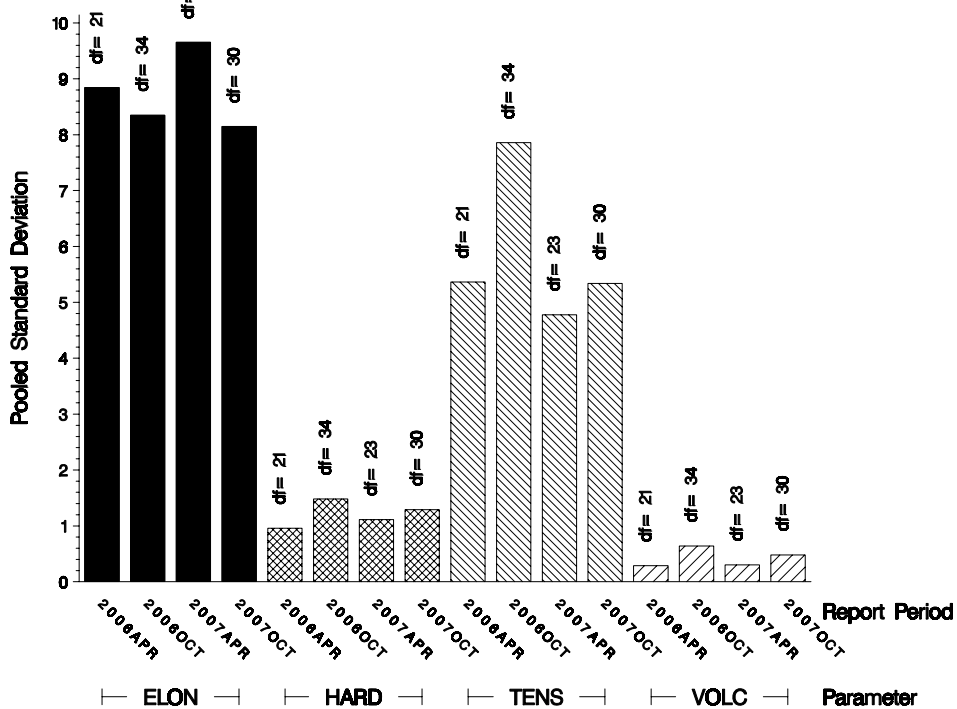
NITRILE TEST PRECISION

POOLED STANDARD DEVIATION BY SIX-MONTH ASTM REPORT PERIOD



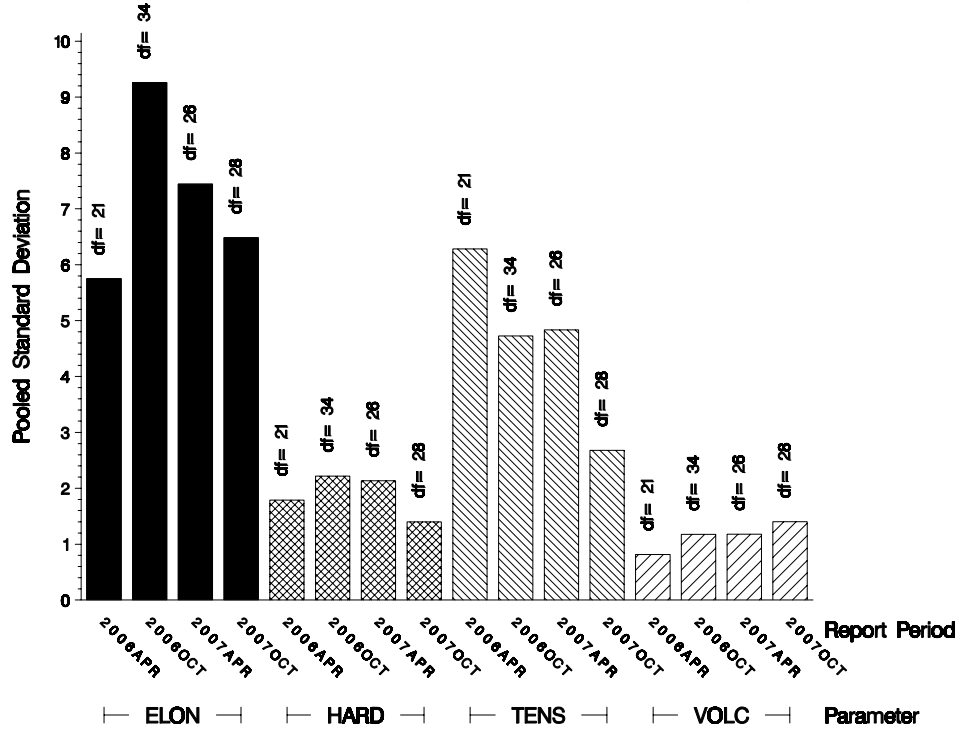
POLYACRYLATE TEST PRECISION

POOLED STANDARD DEVIATION BY SIX-MONTH ASTM REPORT PERIOD



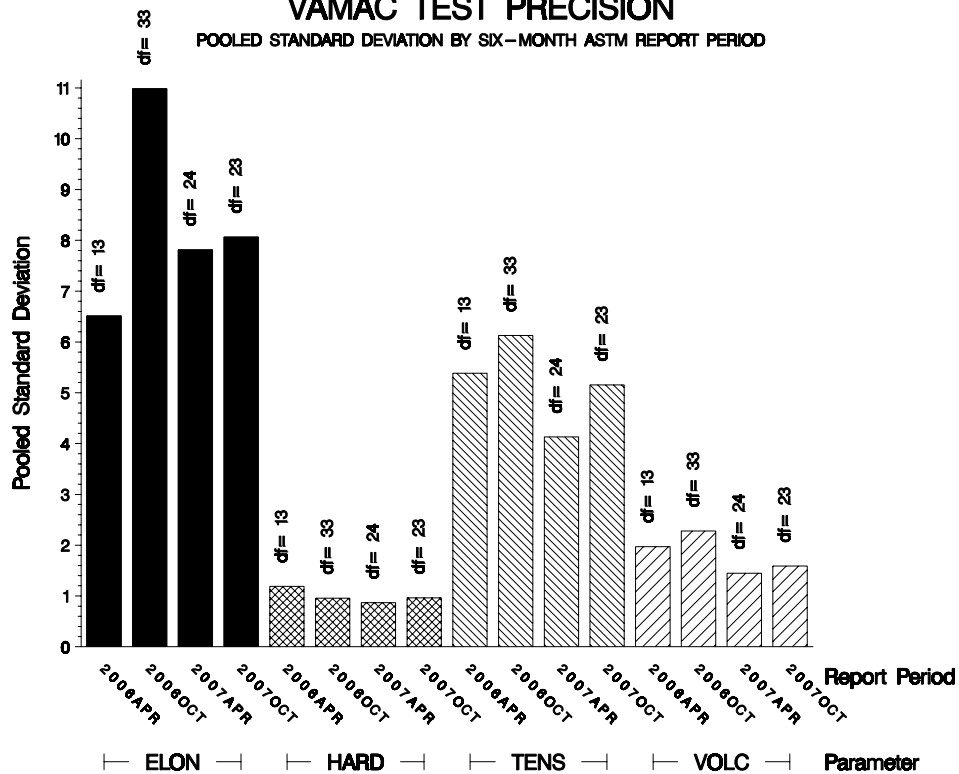
SILICONE TEST PRECISION

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	127	14420	2857
Total	127	14420	2857

* 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	Severe	Severe	Mild	Mild
Polyacrylate	Severe	Within limits	Within limits	Severe
Silicone	Severe	Within limits	Mild	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	Warning
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	Warning	Within limits

SDP/sdp/astm1007.doc/mem07-084.sdp.doc

c: J. L. Zalar

F. M. Farber

EOEC Surveillance Panel

<ftp://ftp.astmtmc.cmu.edu/docs/bench/eoec/semiannualreports/eoec-10-2007.pdf>

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