

Test Monitoring Center 203 Armstrong Drive, Freeport, PA 16229, USA

www.astmtmc.org 412-365-1000

MEMORANDUM:	23-015
DATE:	May 9, 2023
TO:	Don Bell, Chairman, OSCT Surveillance Panel
FROM:	Dylan Beck D.W Bego
SUBJECT:	OSCT Reference oil testing from October 1, 2023 through March 31, 2023

Attached is a summary of reference oil testing activity this period.

DJB/djb/mem23-015.djb.doc Jeff Clark cc: Sean Moyer OSCT Surveillance Panel https://www.astmtmc.org/ftp/docs/gear/osct/semiannualreports/osct-04-2023.pdf

Distribution: email

	Reporting Data	Calibrated on 3-31-2023
Number of Labs	2	2
Number of Stands	5	5

BY-LAB STAND DISTRIBUTION 3 Number of Stands 2-1-0 С G LAB Report Period: Current Previous

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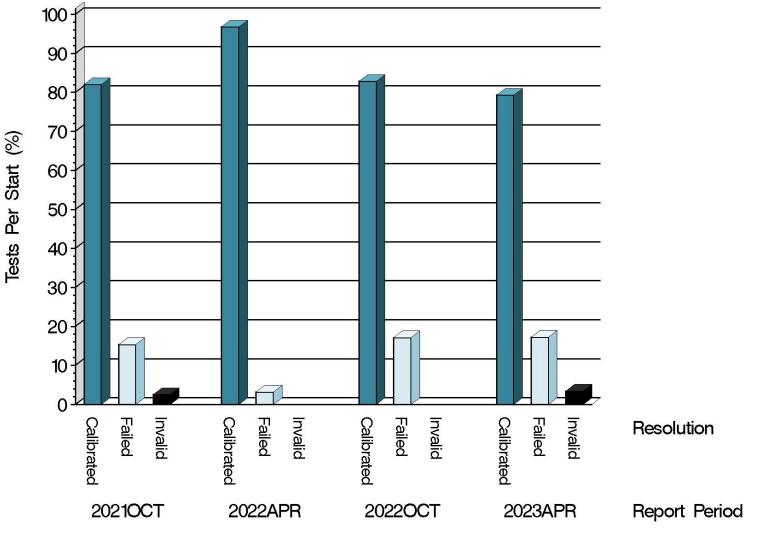
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OSCT (D5662) Test Distribution by Elastomer and Validity

					Tot	als
		FL	NI	ΡΑ	Last Period	This Period
Accepted for calibration	AC	9	6	8	29	23
Rejected (low result)	OC	0	1	1	3	2
Rejected (high result)	OC	0	0	0	1	0
Rejected (high and low)	OC	0	3	0	1	3
Op. invalid	RC	0	1	0	0	1
Aborted	XC	0	0	0	0	0
Elastomer approval run	NI	1	7	1	15	9
Invalid information run	MI	0	2	0	5	2
Op. invalid approval run	LI	0	0	0	0	0
Total		10	20	10	54	40



OSCT (D5662) CALIBRATION ATTEMPT SUMMARY



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OSCT (D5662) CAUSES FOR LOST TESTS

			Elastomer		Loss Rate							
Lab	Lab Cause		FL	NI	PA	LI	MI	RC	XC	Lost	Starts	%
Elastomer approval run, accompanying G reference failed			•			•			2	15	13%	
Expired elastomer batch			•				•		1	15	6.7%	
	Lo	ost	0	3	0	0	2	1	0		·	
	St	tarts	10	20	10	40	40	40	40			
	%)	0%	15%	0%	0%	5%	2.5%	0%			



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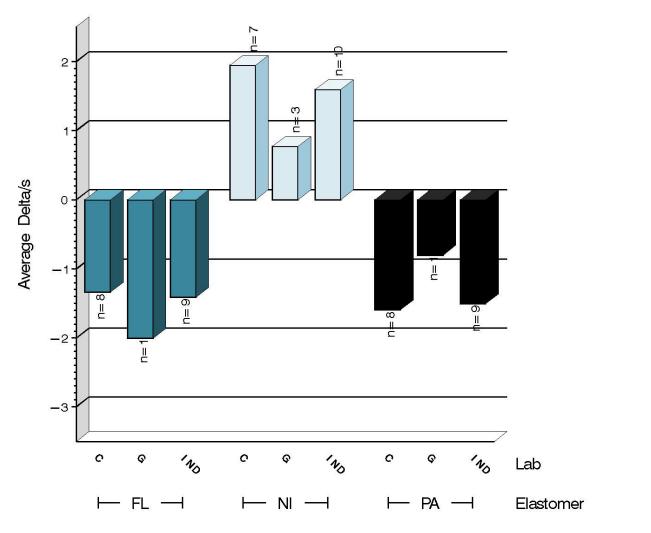
Average ∆/s by Lab							
Elastomer	Lab N PELA PVCA SAHA						
	С	8	-1.336	-0.572	-0.461		
-	G	1	-2.003	-0.986	0.538		
FL	Industry	9	-1.410	-0.618	-0.350		
	Shift*	9	-10.796	-0.338	-0.488		
NI	С	7	1.945	1.308	-4.750		
	G	3	0.771	0.405	-1.026		
	Industry	10	1.593	1.037	-3.633		
	Shift*	10	8.174	0.522	-4.178		
	С	8	-1.594	-0.407	0.462		
PA	G	1	-0.802	-0.629	1.413		
	Industry	9	-1.506	-0.431	0.568		
	Shift*	9	-31.711	-0.825	1.453		

*computed using historic pooled s



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%ELONGATION SEVERITY DELTA/S BY LAB

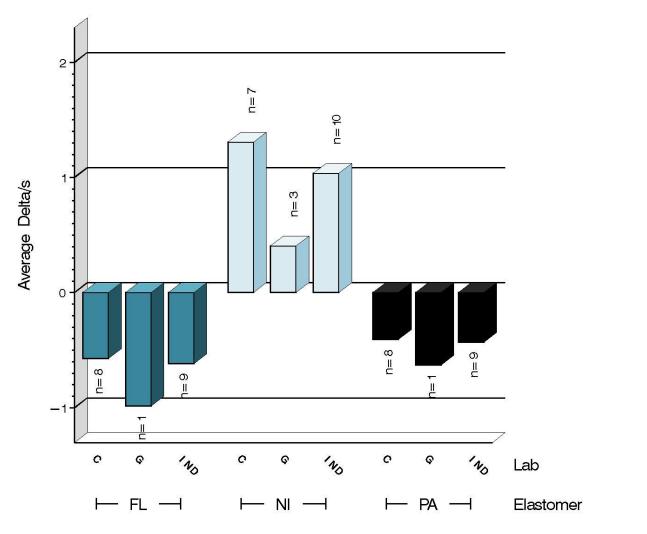


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%VOLUME CHANGE SEVERITY DELTA/S BY LAB

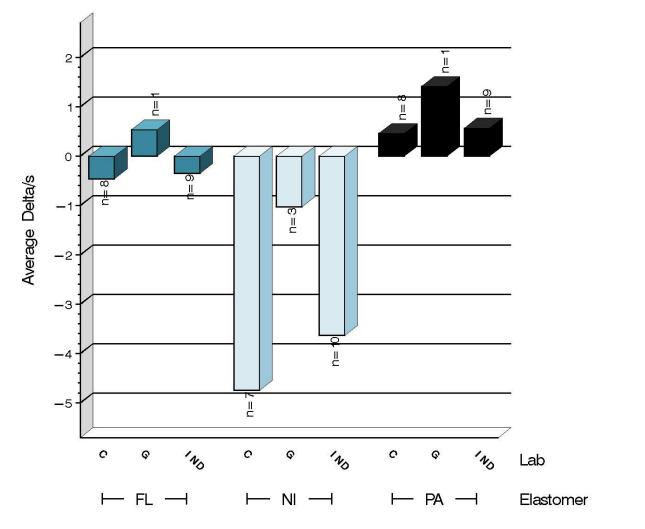


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S.A. HARDNESS SEVERITY DELTA/S BY LAB



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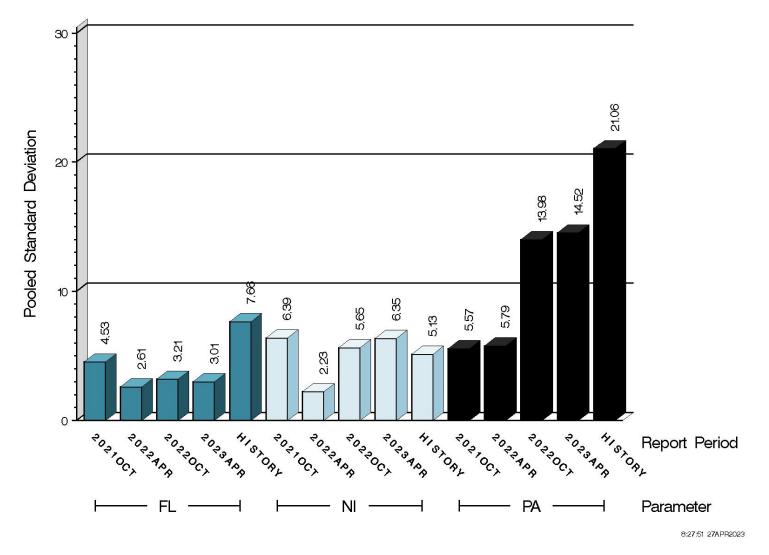


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%ELONGATION PRECISION POOLED STANDARD DEVIATION BY SIX-MONTH ASTM REPORT PERIOD



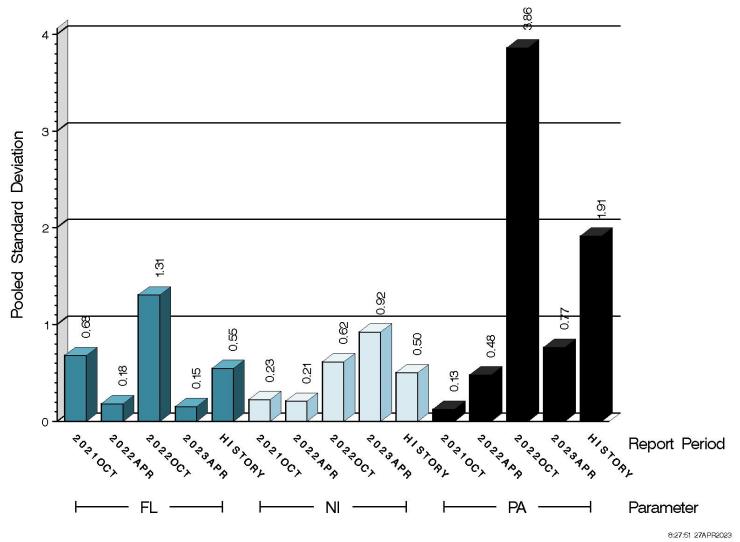


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%VOLUME CHANGE PRECISION

POOLED STANDARD DEVIATION

BY SIX-MONTH ASTM REPORT PERIOD



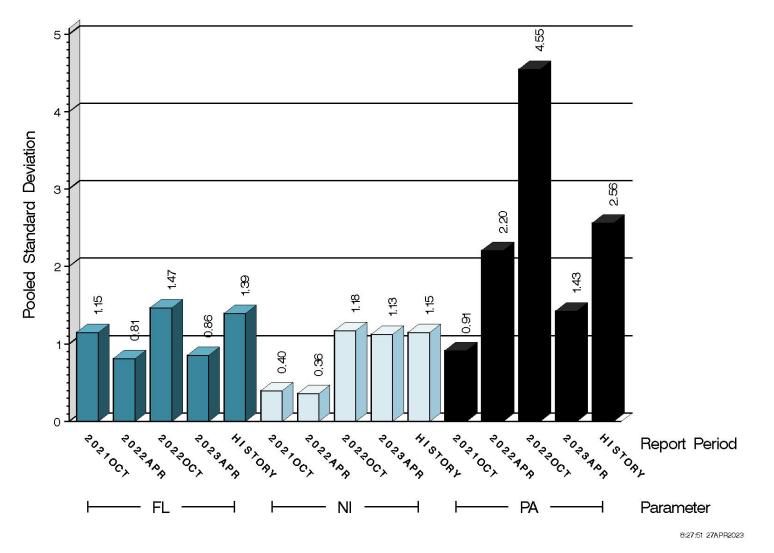


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S.A. HARDNESS PRECISION

POOLED STANDARD DEVIATION

BY SIX-MONTH ASTM REPORT PERIOD





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SUMMARY OF SEVERITY & PRECISION

Severity

The combined-elastomer industry charts show that SAHA exceeded the limits in the severe direction for most of the reporting period.

FL PELA, NI PELA, PA PELA, NI PVCA, NI SAHA, all exceeded the limits this period.

Precision

The combined-elastomer industry charts show that SAHA spent most of the period outside of the action limit. PVCA also exceeded the limit this period but is now within limits.

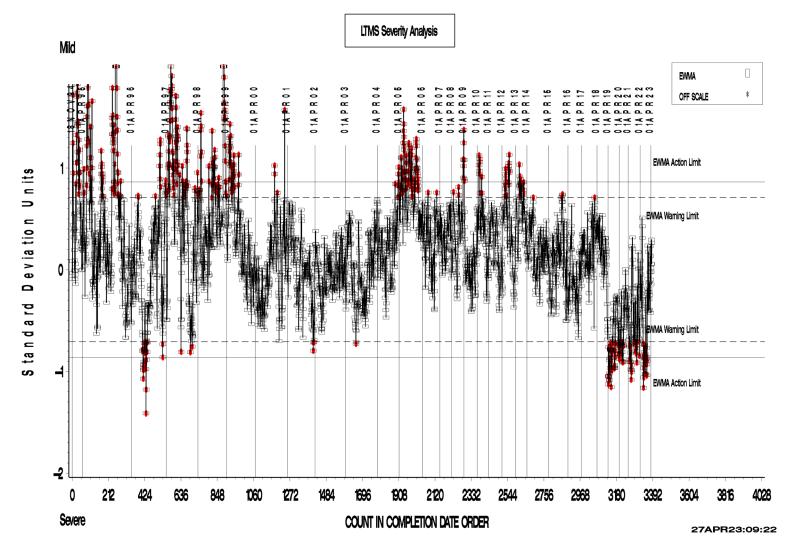
Industry control charts follow.



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OSCT INDUSTRY OPERATIONALLY VALID DATA

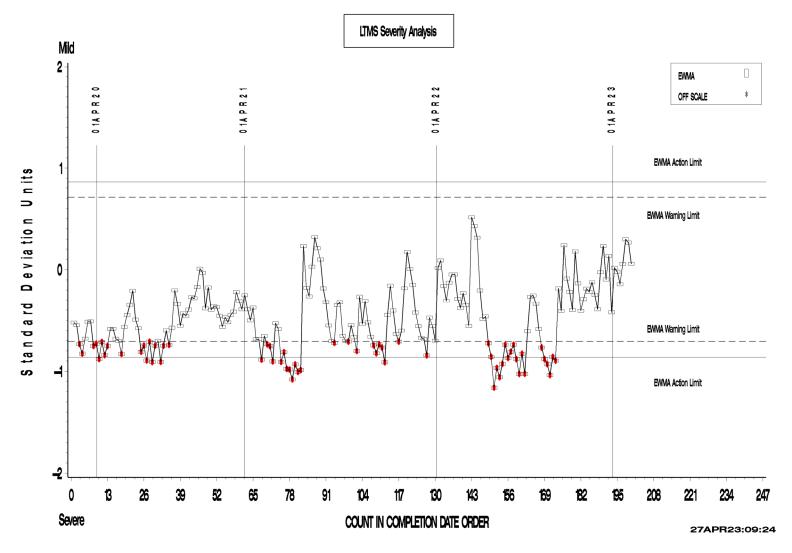
REF. ELONGATION CHANGE AVG.





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OSCT INDUSTRY OPERATIONALLY VALID DATA Zoomed to Show 200 Most Recent Datapoints REF. ELONGATION CHANGE AVG.

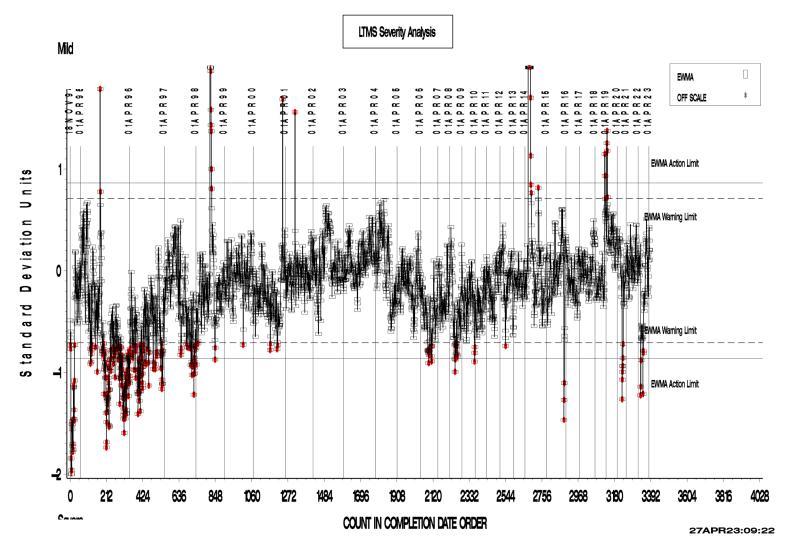




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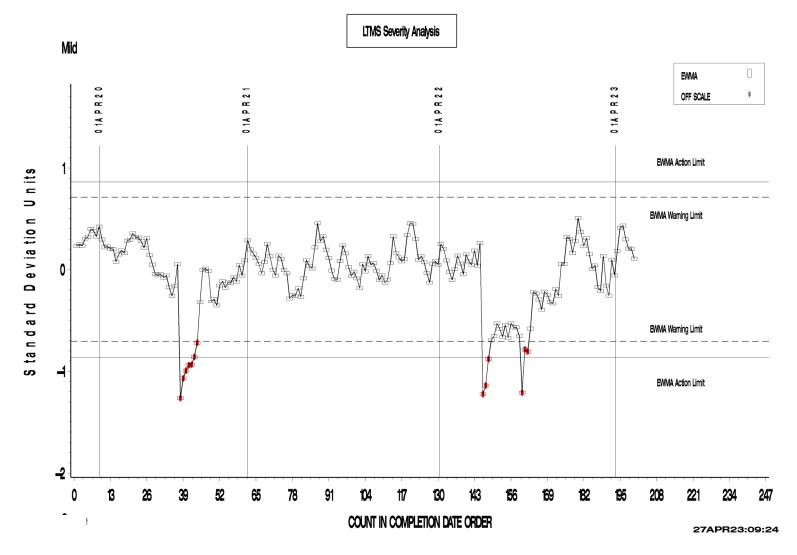
REF. PERCENT VOLUME CHANGE AVG.





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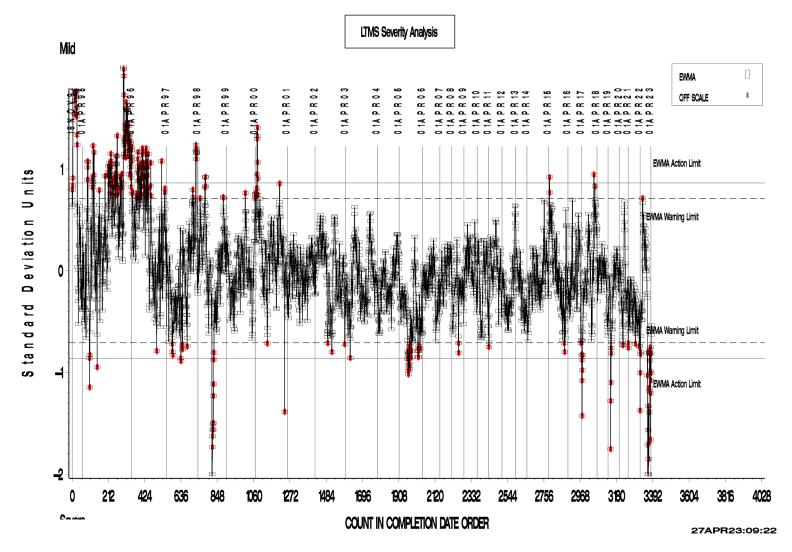




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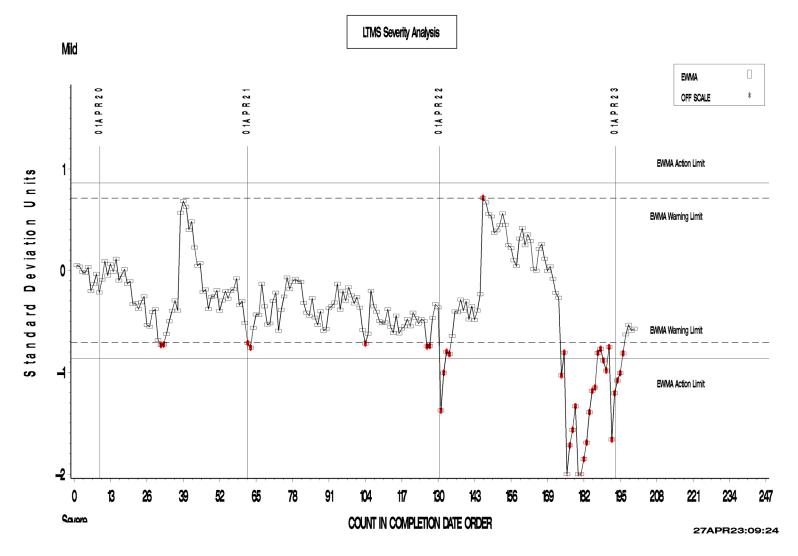
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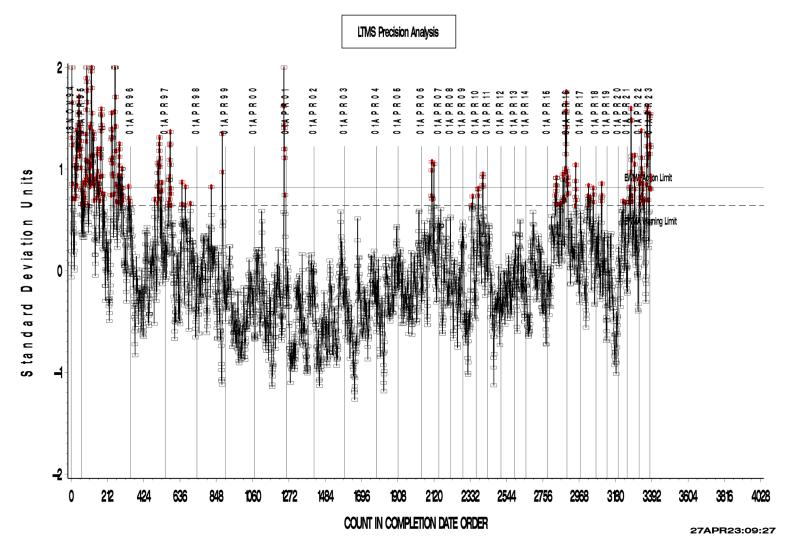




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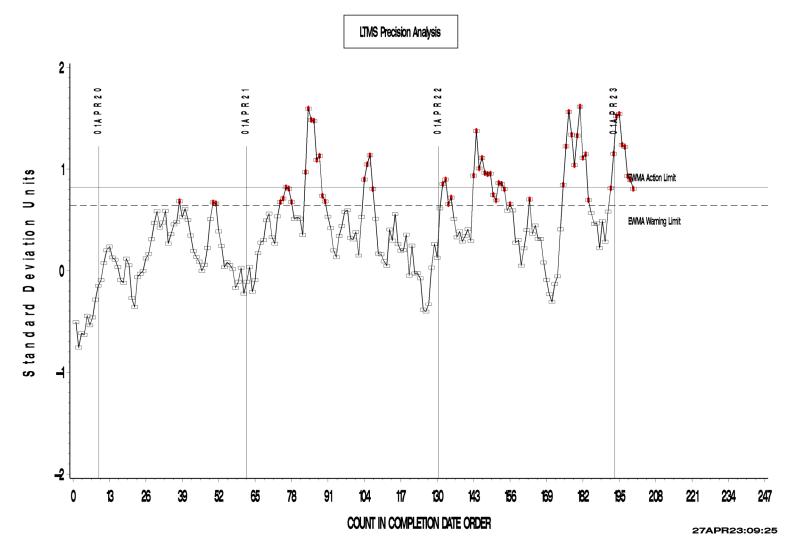
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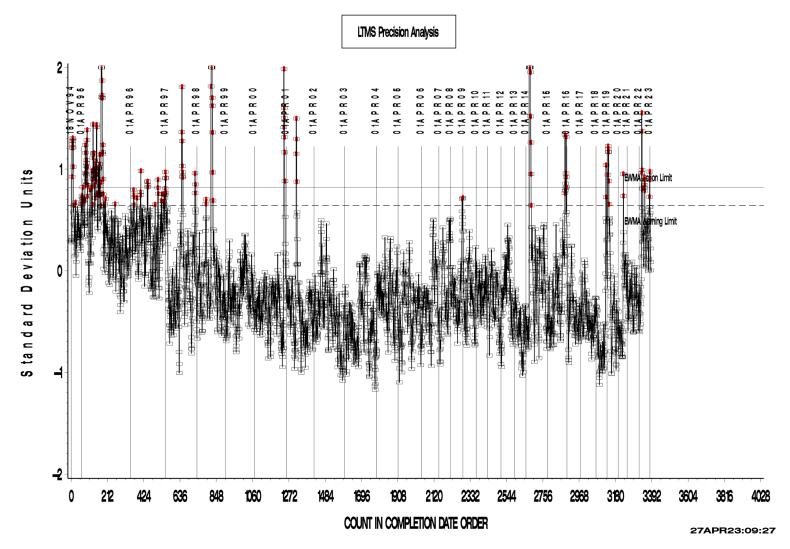




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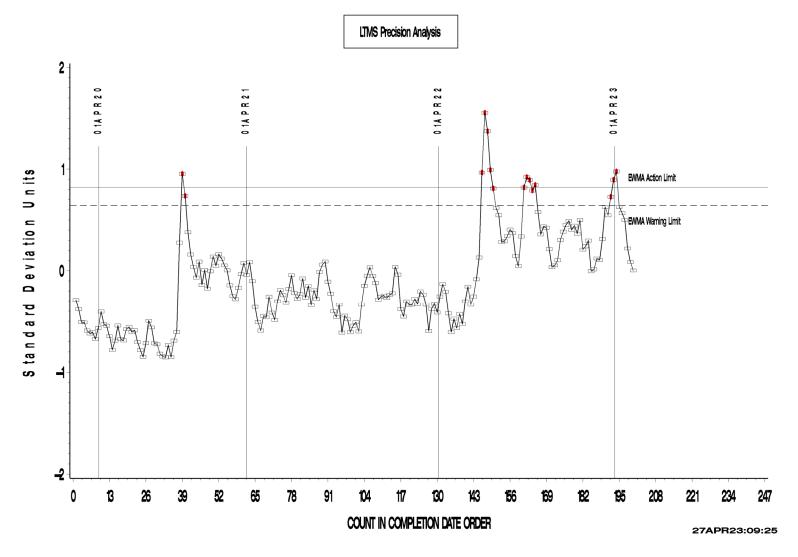
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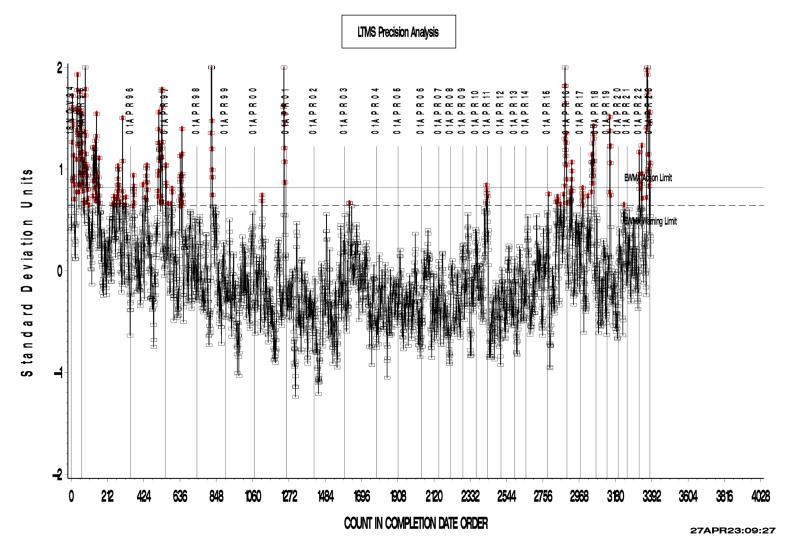




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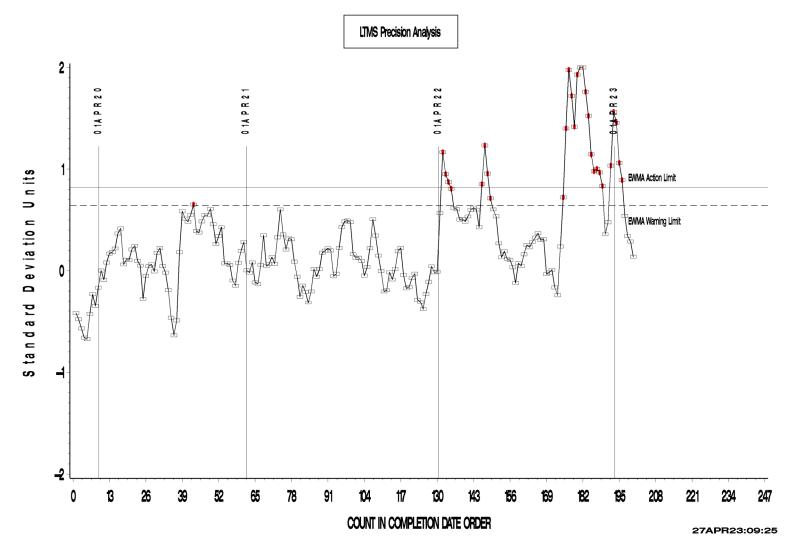
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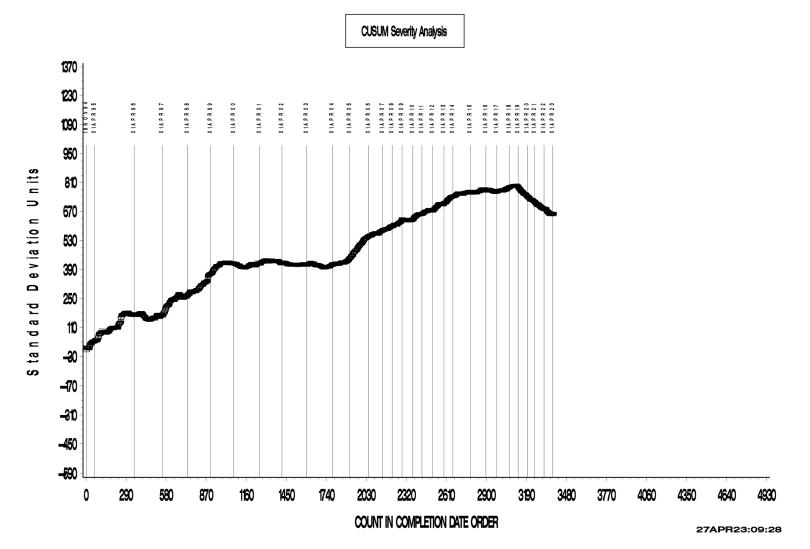




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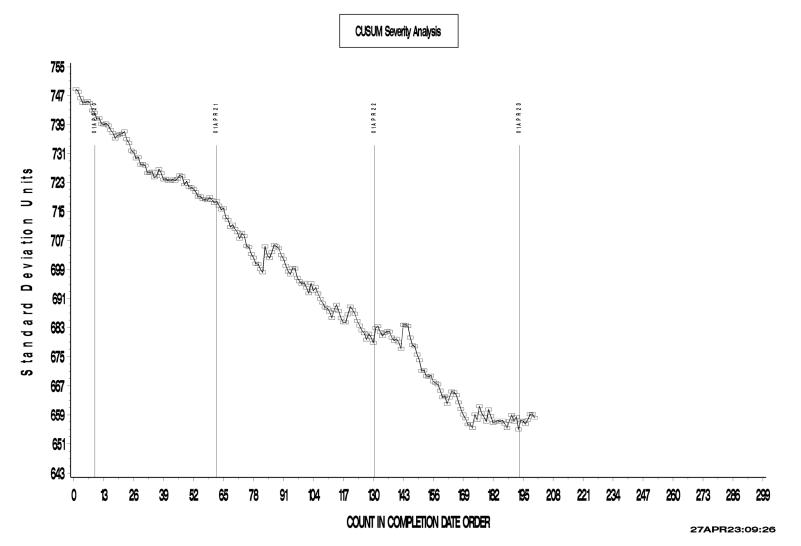
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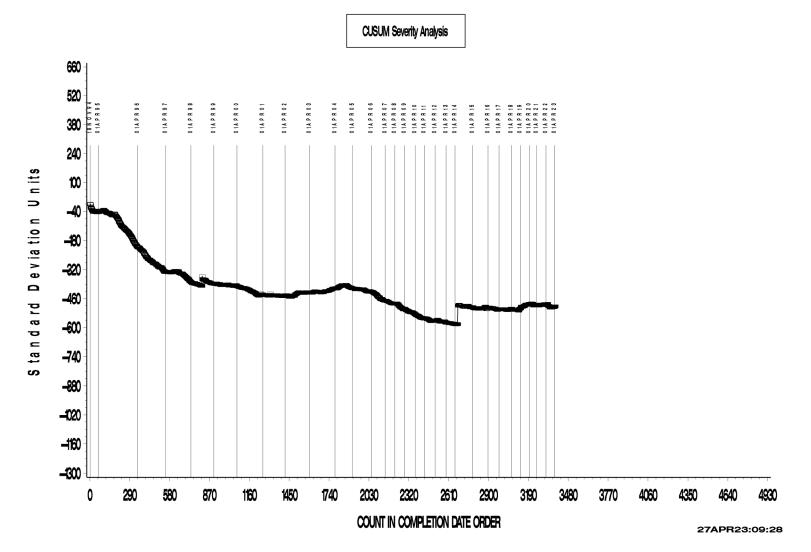




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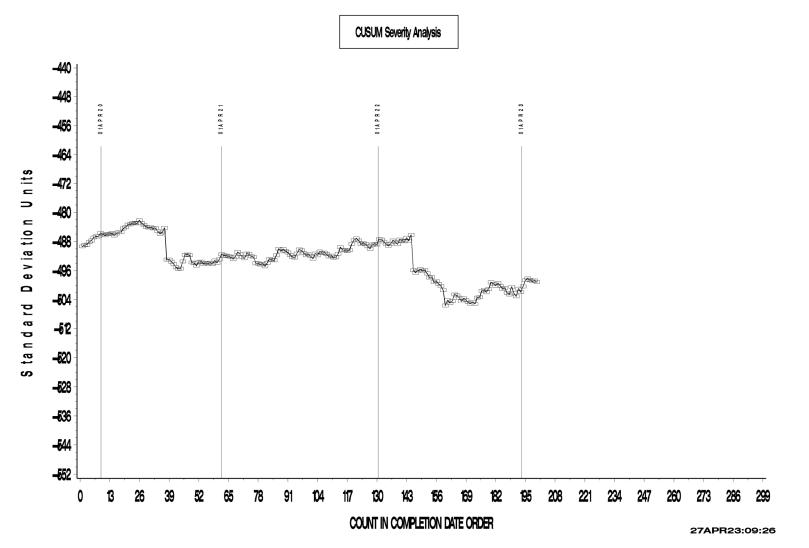
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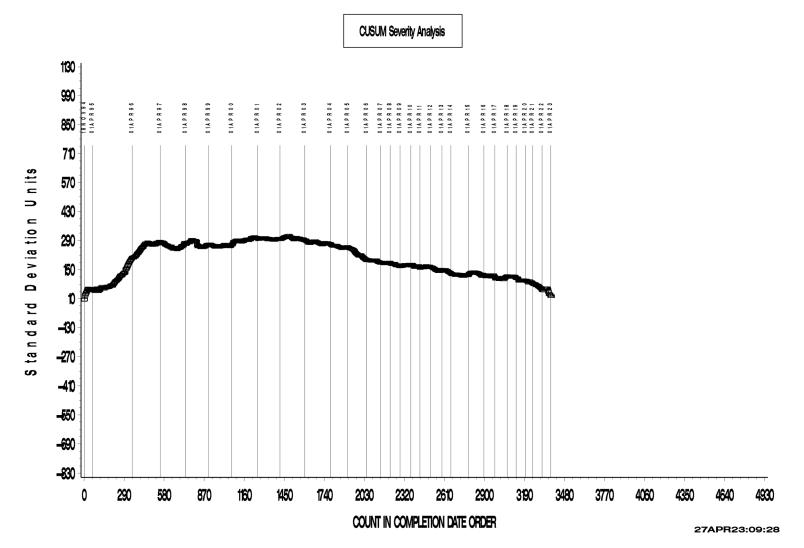




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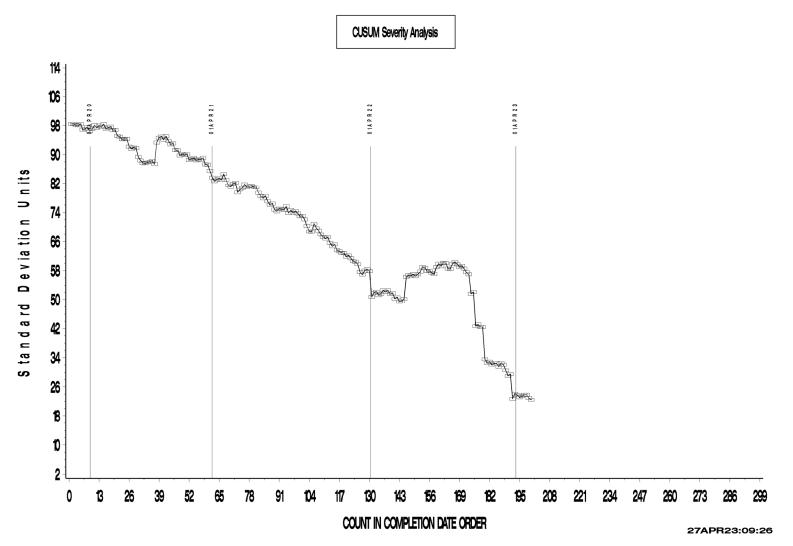
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A P R

014 P R 18 14 P R 2 0 14 P R 2 1 DIMA OFF SCALE

BANA OFF SCALE

FIAM Warries Lies

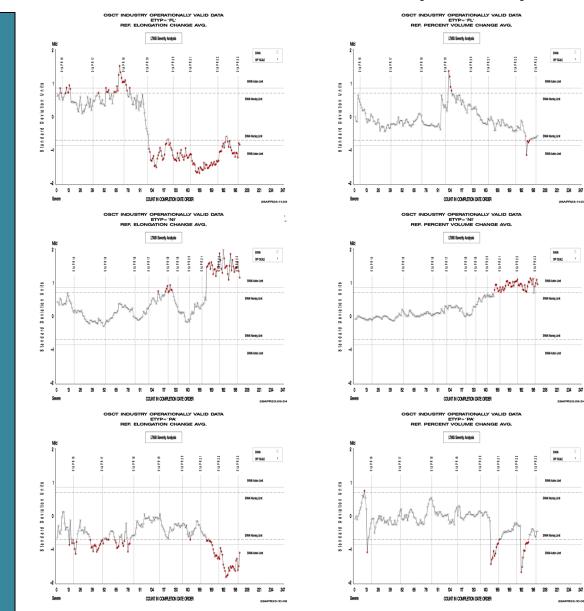
EVMA Warning Lin

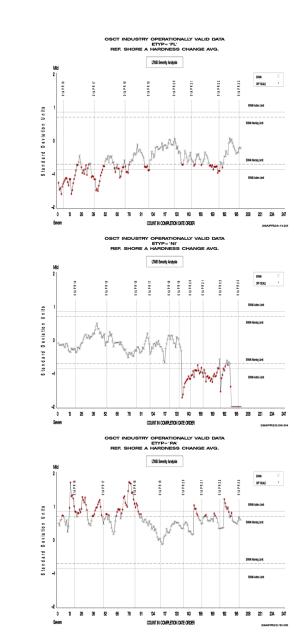
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BINA OFF SCALE

- NYA Aw Mark

BY-ELASTOMER SEVERITY







1A P R 2 1 1A P.R.2.2

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TIMELINE ADDITIONS

Effective Date	Information Letter	Event
		No timeline additions occurred during this period.



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LAB VISITS

No lab visits were conducted during this period.

INFORMATION LETTERS

No information letters were issued during this period.



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STATUS OF REFERENCE OIL SUPPLY

		@ TMC			
Oil	Cans @ Labs	Cans	Gallons		
155-1	12	83	16.6		
155-2	4	1227	243.3		
160-1	2	0	0.0		
168	13	0	0.0		
169	33	625	123.9		
170	26	112	22.2		
171	34	64	12.8		
Total	124	2111	418.8		

Oil 168 is depleted. Oil 170 has been introduced as a replacement. Oil 171 is the same additive package as oil 160-1 in a different base oil and has been introduced as a replacement.



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