



Test Monitoring Center

203 Armstrong Drive, Freeport, PA 16229, USA

www.astmtmc.org
412-365-1000

MEMORANDUM: 22-018
DATE: June 13, 2022
TO: Don Bell, Chairman, OSCT Surveillance Panel
FROM: Dylan Beck *Dylan Beck*
SUBJECT: OSCT Reference oil testing from October 1, 2021 through March 31, 2022

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

DJB/djb/mem22-018.djb.doc

cc: Frank Farber
Jeff Clark

OSCT Surveillance Panel

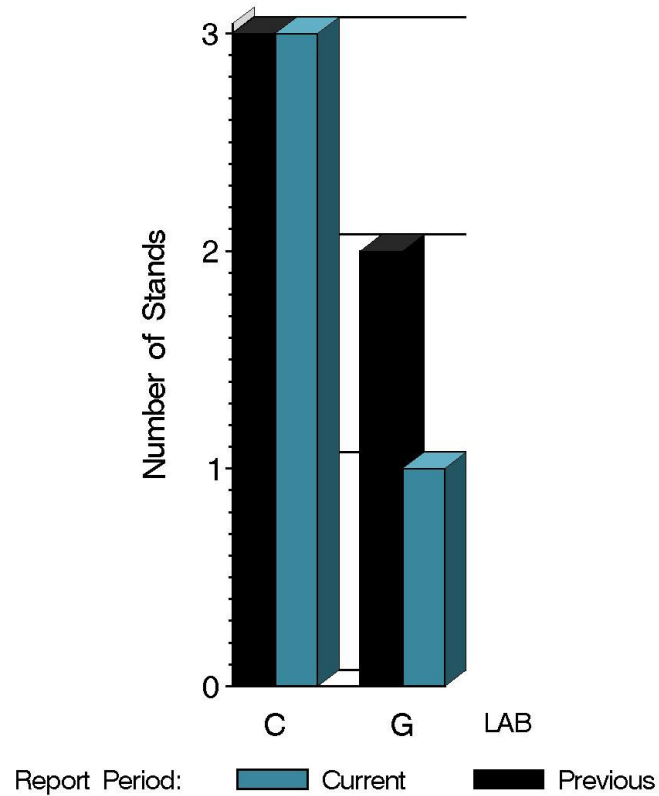
<https://www.astmtmc.org/ftp/docs/gear/osct/semiannualreports/osct-04-2022.pdf>

Distribution: email

OSCT (D5662)

	Reporting Data	Calibrated on 3-31-2022
Number of Labs	2	2
Number of Stands	4	4

BY-LAB STAND
DISTRIBUTION



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Test Distribution by Elastomer and Validity

					Totals	
					Last Period	This Period
		FL	NI	PA		
Accepted for calibration	AC	13	9	8	32	30
Rejected (low result)	OC	0	0	0	5	0
Rejected (high result)	OC	0	1	0	1	1
Rejected (high and low)	OC	0	0	0	0	0
Op. invalid	LC	0	0	0	0	0
Aborted	XC	0	0	0	1	0
Elastomer approval run	NI	8	3	2	3	13
Invalid information run	MI	0	3	0	2	3
Op. invalid approval run	LI	0	0	0	0	0
Total		21	16	10	44	47



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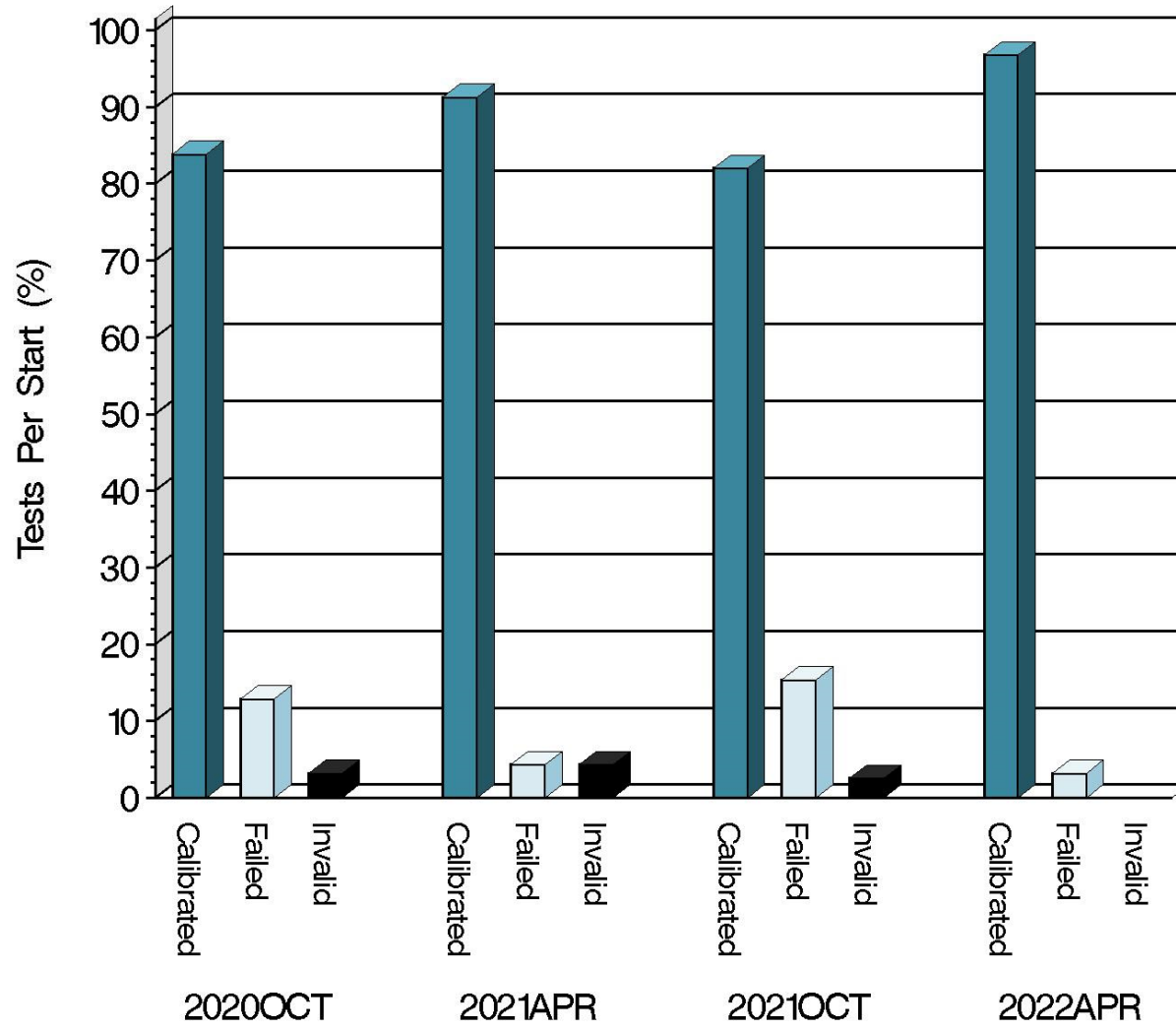
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CALIBRATION ATTEMPT SUMMARY



Resolution

Report Period

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CAUSES FOR LOST TESTS

		Elastomer			Loss Rate						
Lab	Cause	FL	NI	PA	LI	MI	LC	XC	Lost	Starts	%
	No tests lost this period									47	0%
	Lost	0	0	0	0	0	0	0			
	Starts	21	16	10	47	47	47	47			
	%	0%	0%	0%	0%	0%	0%	0%			



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Average Δ /s by Lab

Elastomer	Lab	N	PELA	PVCA	SAHA
FL	C	9	-1.195	-0.455	-0.836
	G	4	-1.867	-0.369	-1.285
	Industry	13	-1.402	-0.429	-0.974
	Shift*	13	-10.725	-0.228	-1.359
NI	C	8	1.240	0.784	-0.642
	G	2	1.839	1.741	-0.513
	Industry	10	1.360	0.975	-0.616
	Shift*	10	6.974	0.483	-0.722
PA	C	7	-1.416	-0.114	0.120
	G	1	-1.732	-0.420	2.191
	Industry	8	-1.455	-0.152	0.379
	Shift*	8	-30.596	-0.287	0.957

*computed using historic pooled s



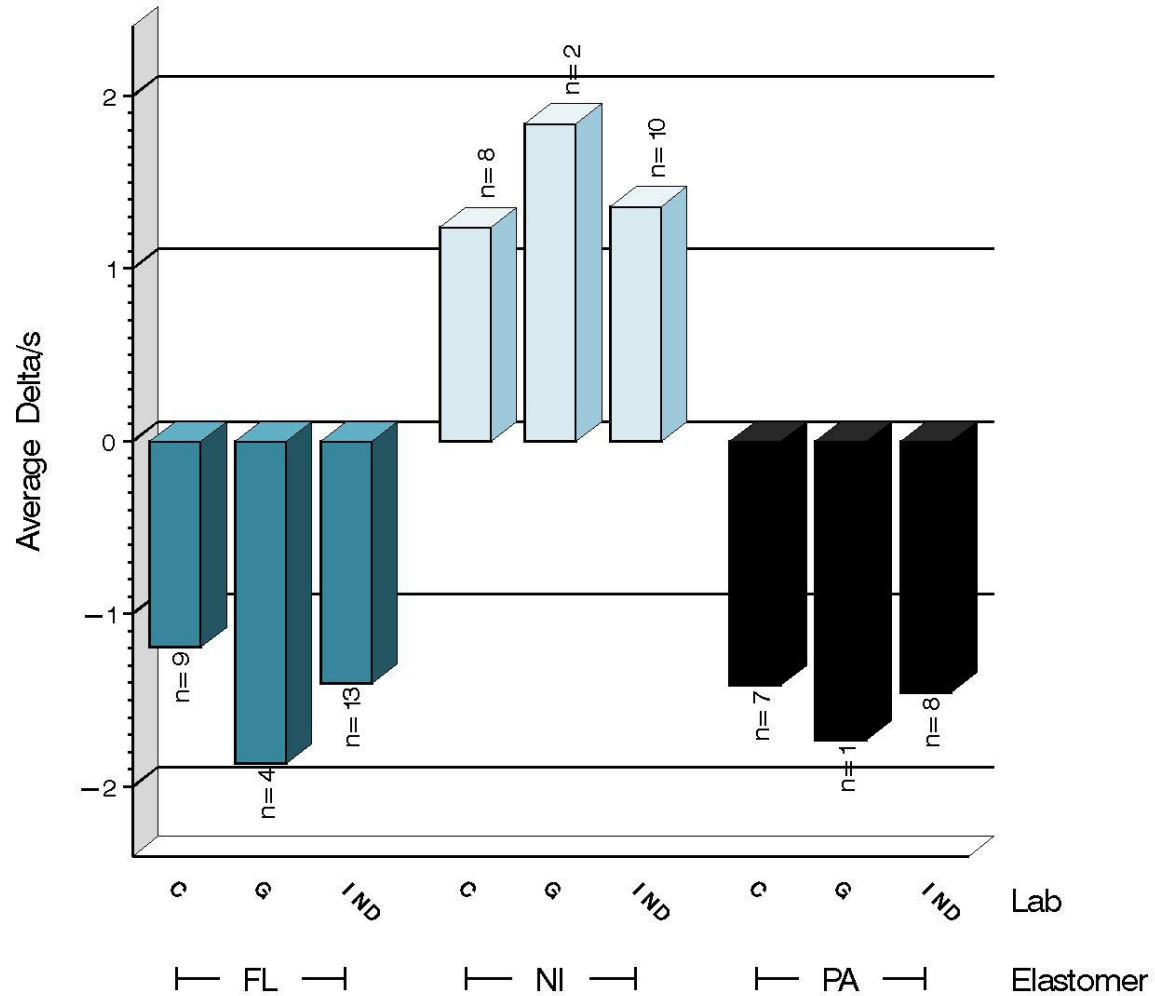
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%ELONGATION SEVERITY
DELTA/S BY LAB



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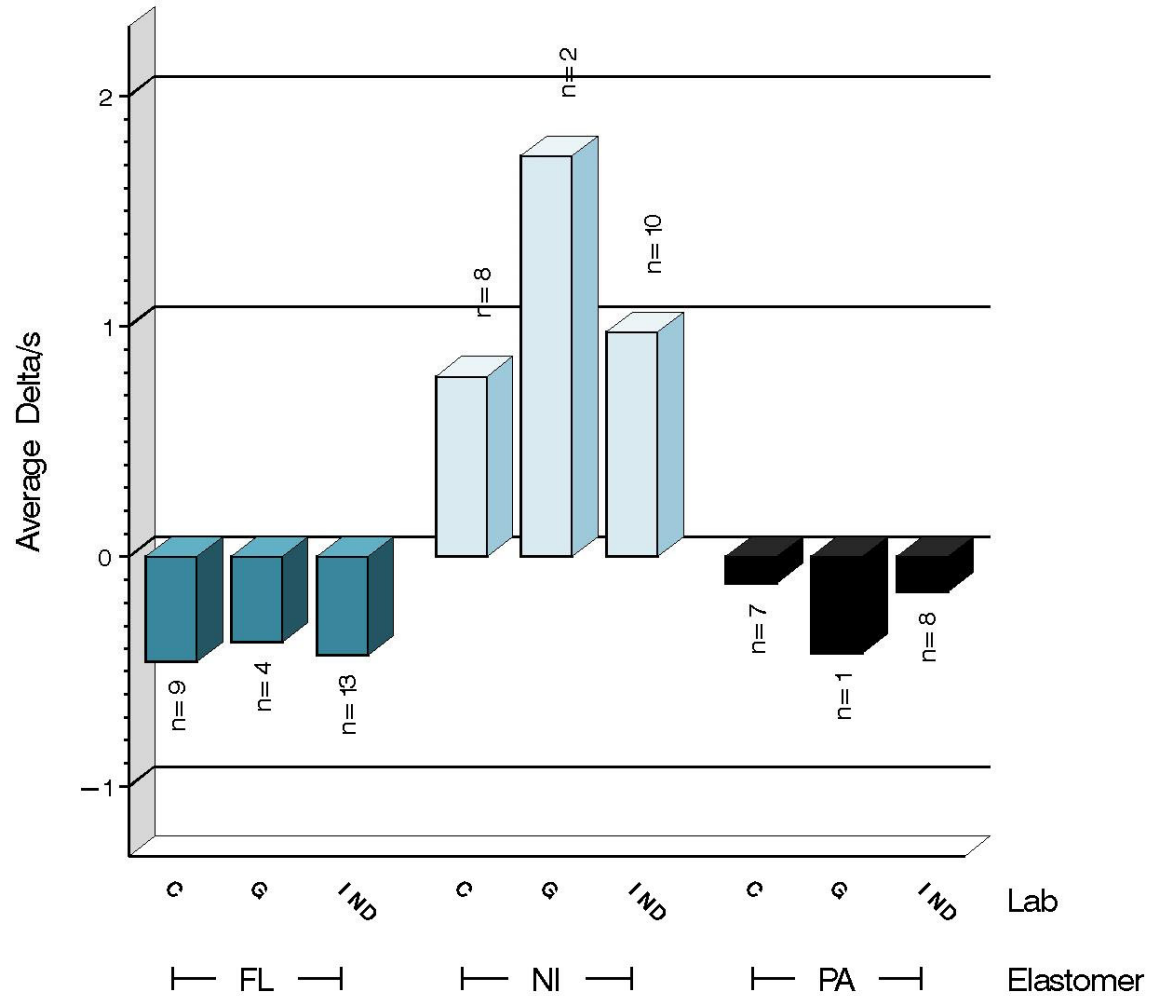
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%VOLUME CHANGE SEVERITY
DELTA/S BY LAB



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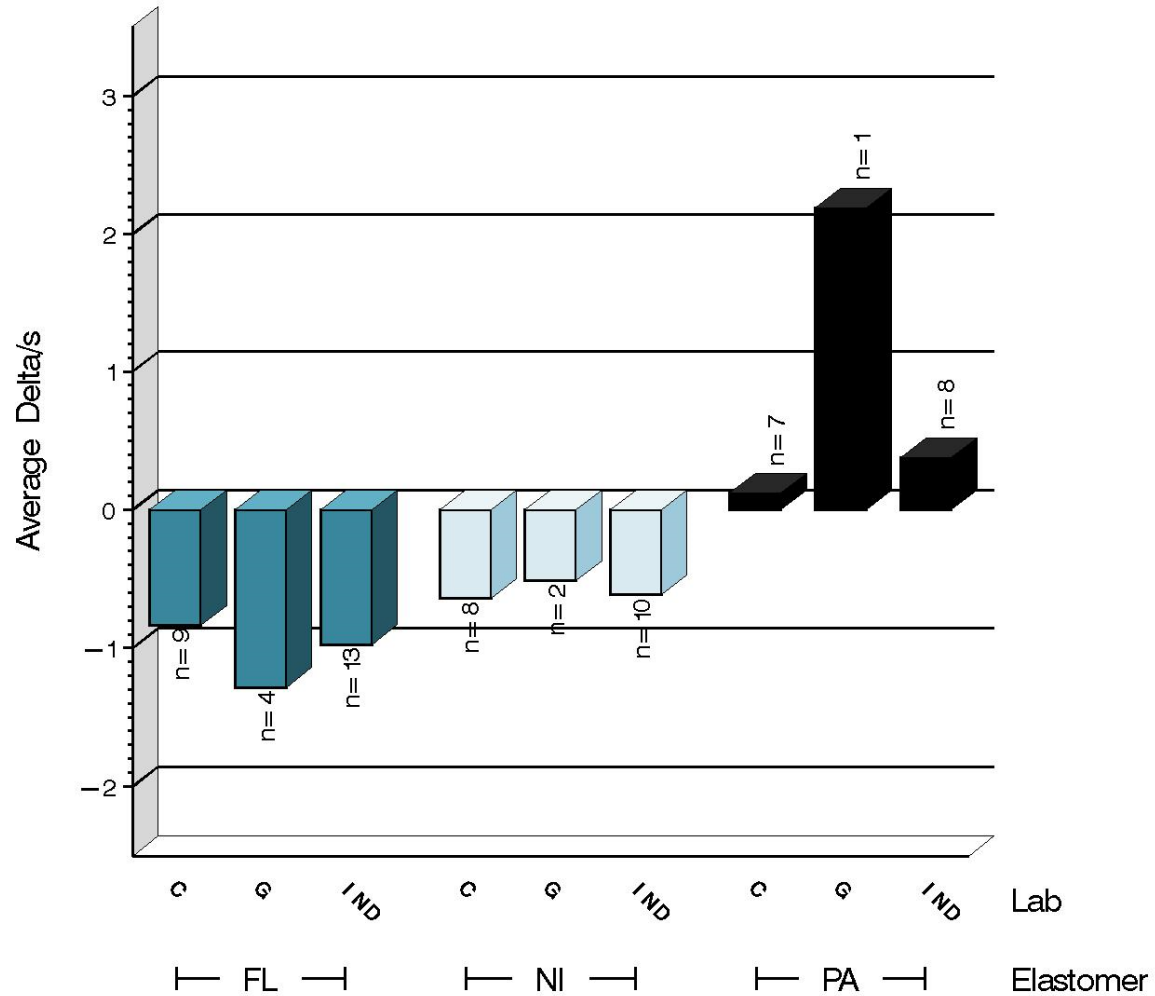
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S.A. HARDNESS SEVERITY
DELTA/S BY LAB



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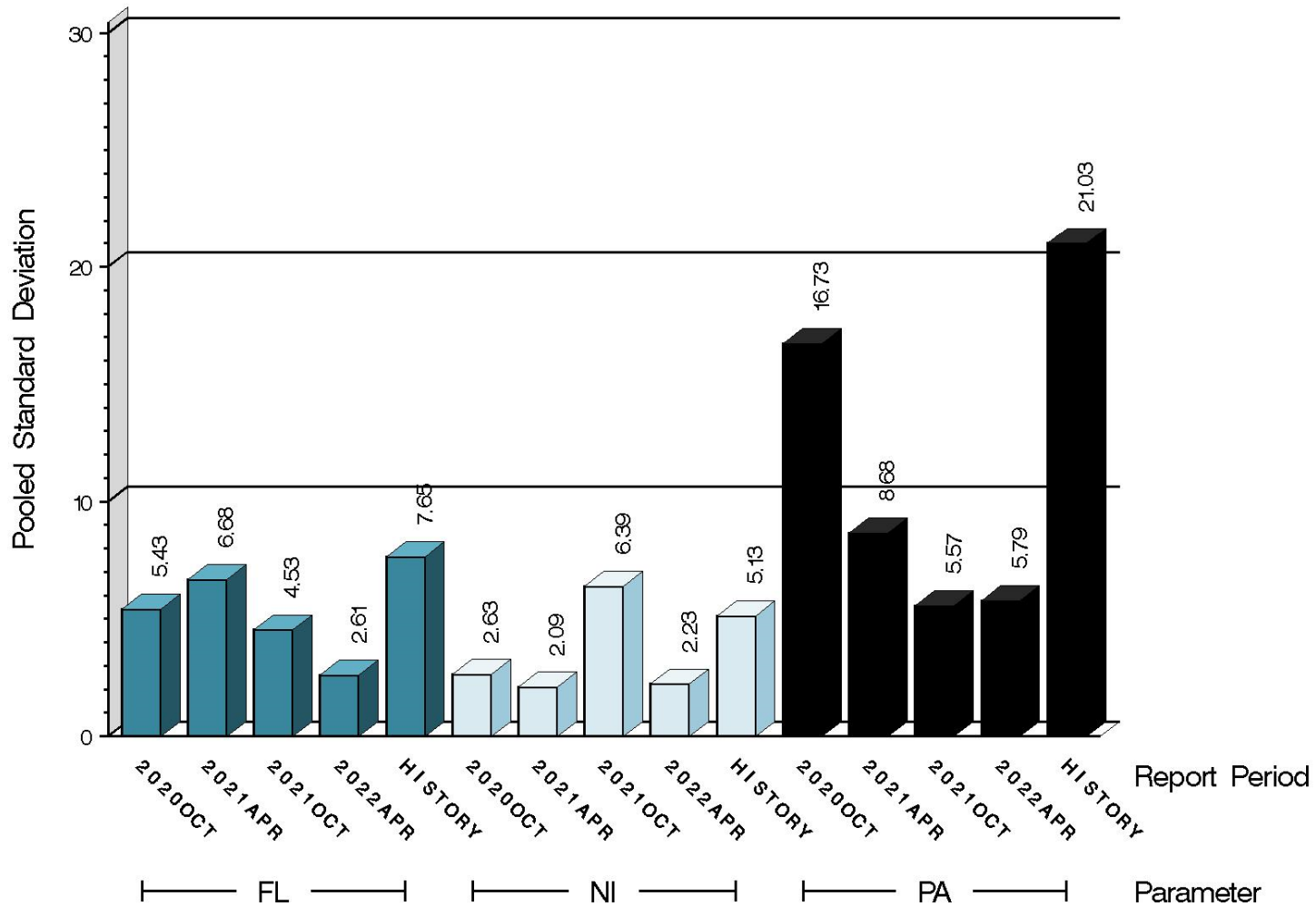
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%ELONGATION PRECISION
POOLED STANDARD DEVIATION
BY SIX-MONTH ASTM REPORT PERIOD



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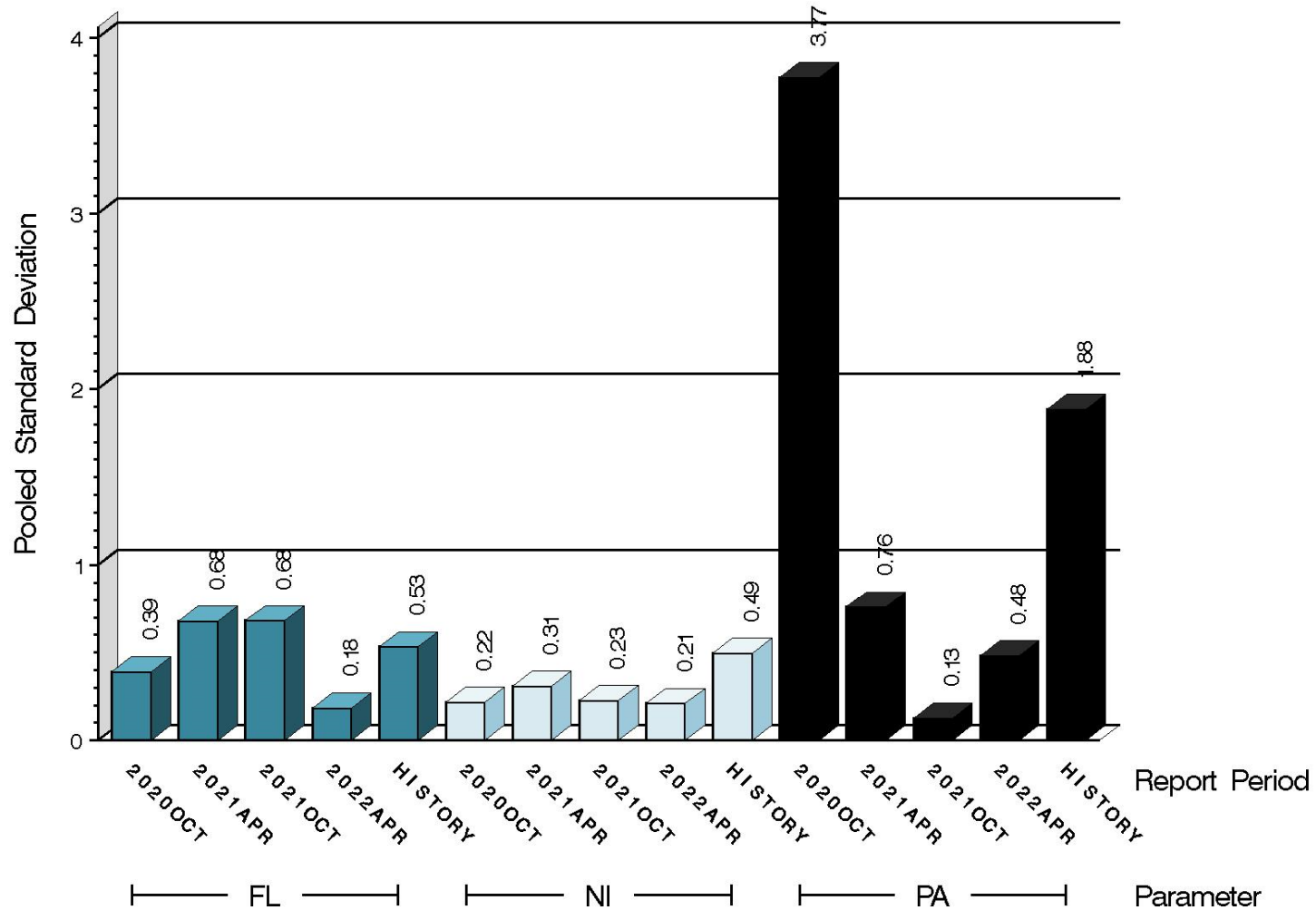
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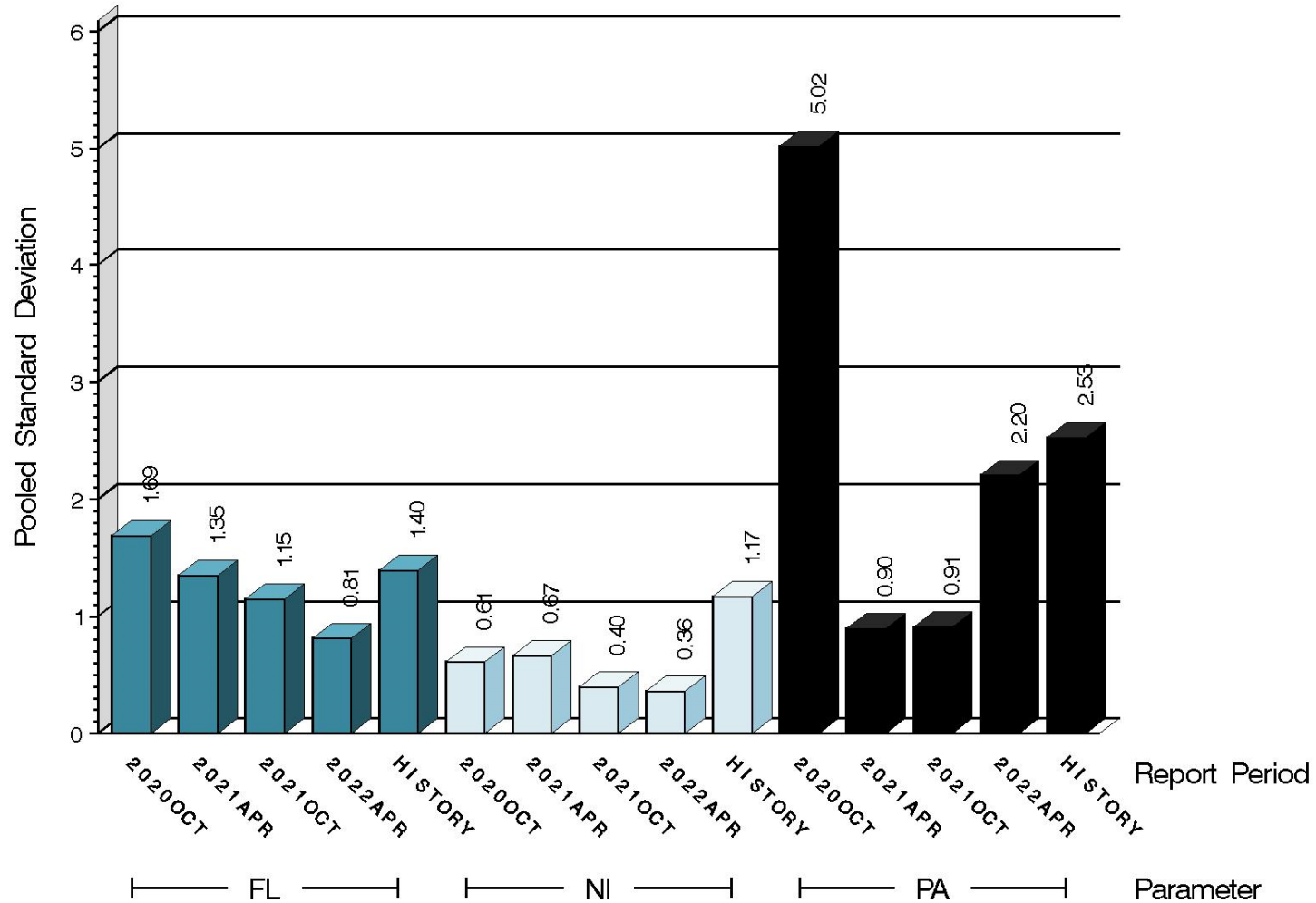
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POOLED STANDARD DEVIATION
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SUMMARY OF SEVERITY & PRECISION

Severity

The combined-elastomer industry charts show that SAHA exceeded the limits in the severe direction this period but is now back within the limits.

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

Precision

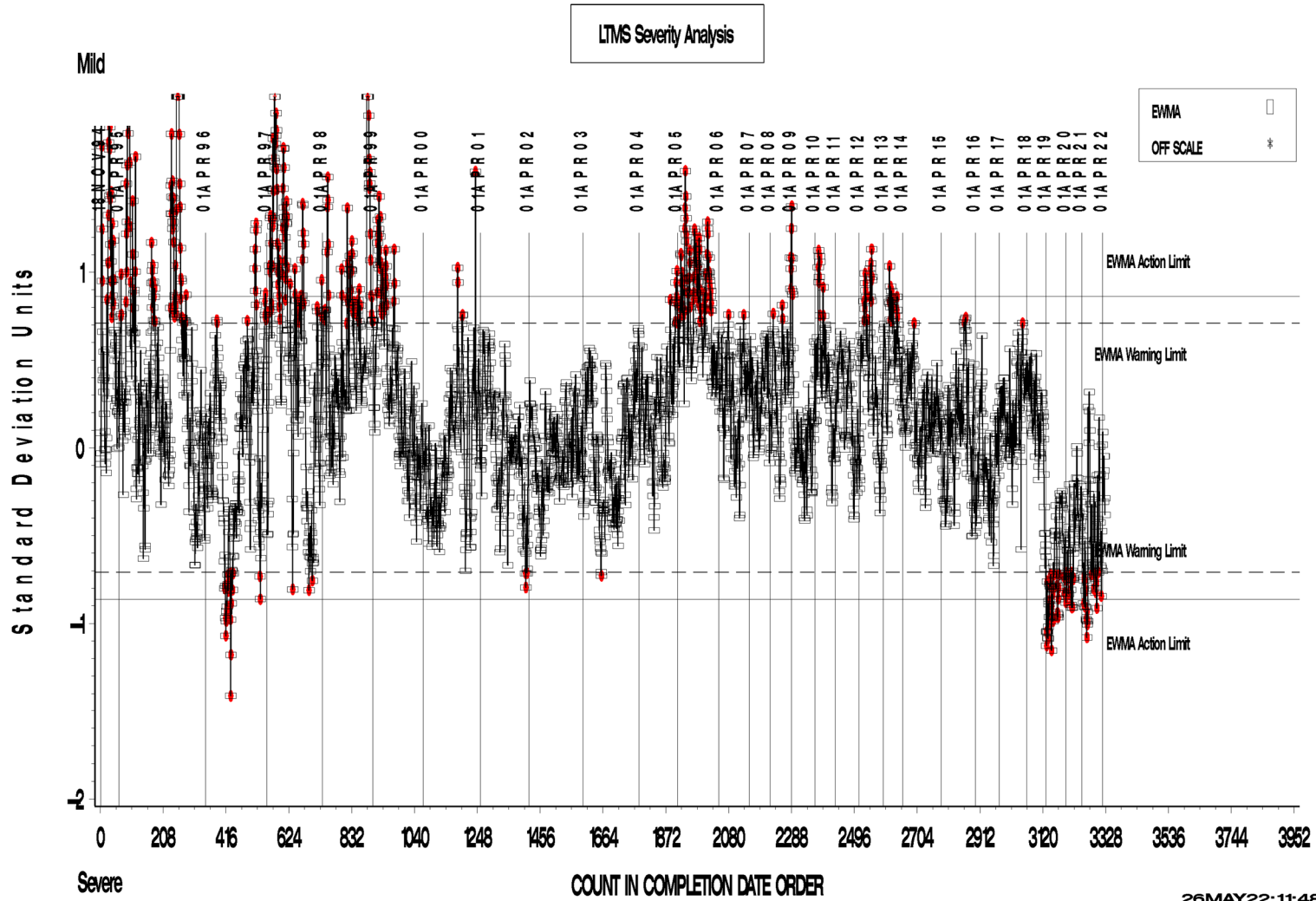
The combined-elastomer industry charts show that PELA started the period exceeding the action limit but is now in line. SAHA exceeded the action limit with a few tests this period but is now in line.

Industry control charts follow.

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REF. ELONGATION CHANGE AVG.



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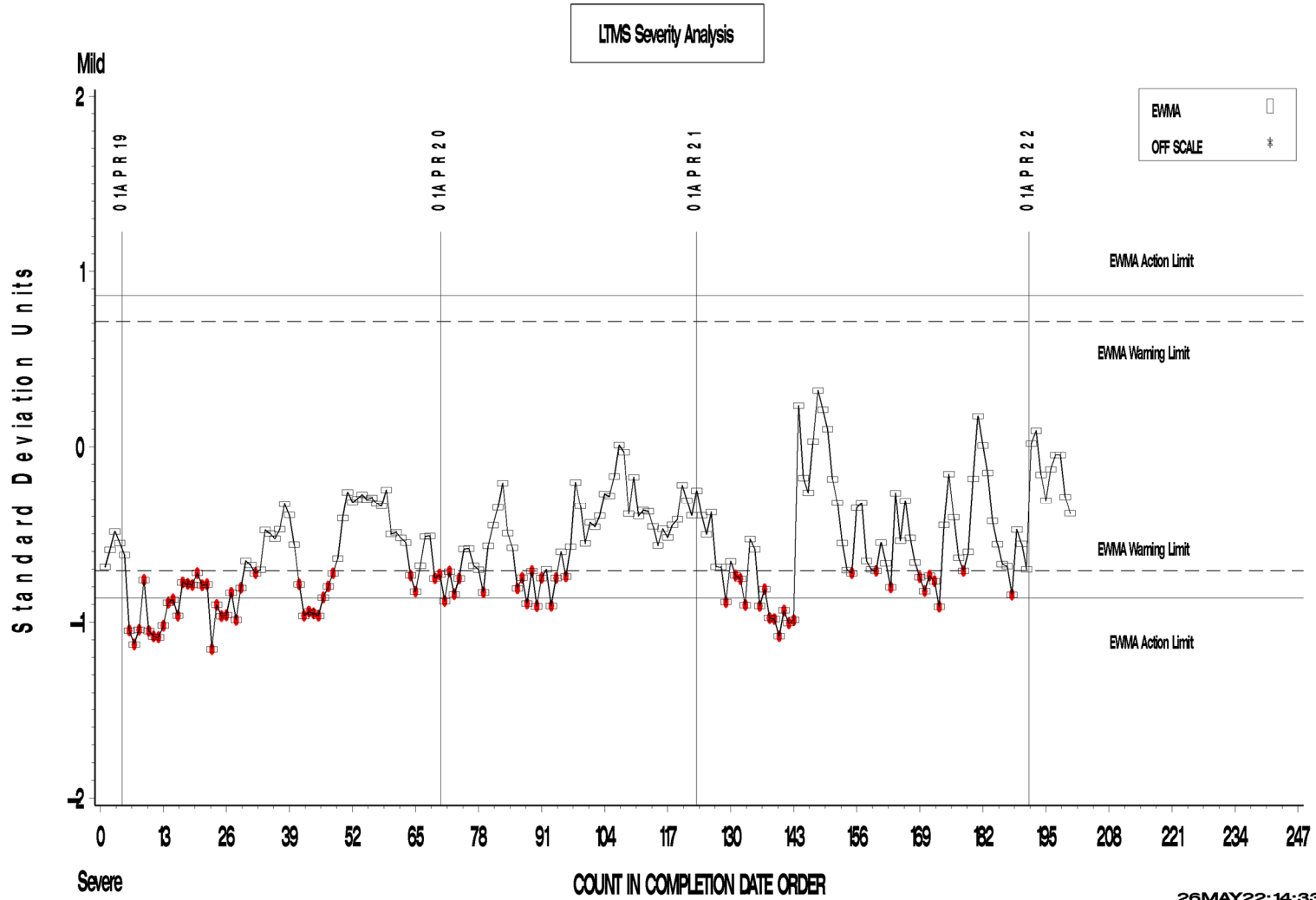
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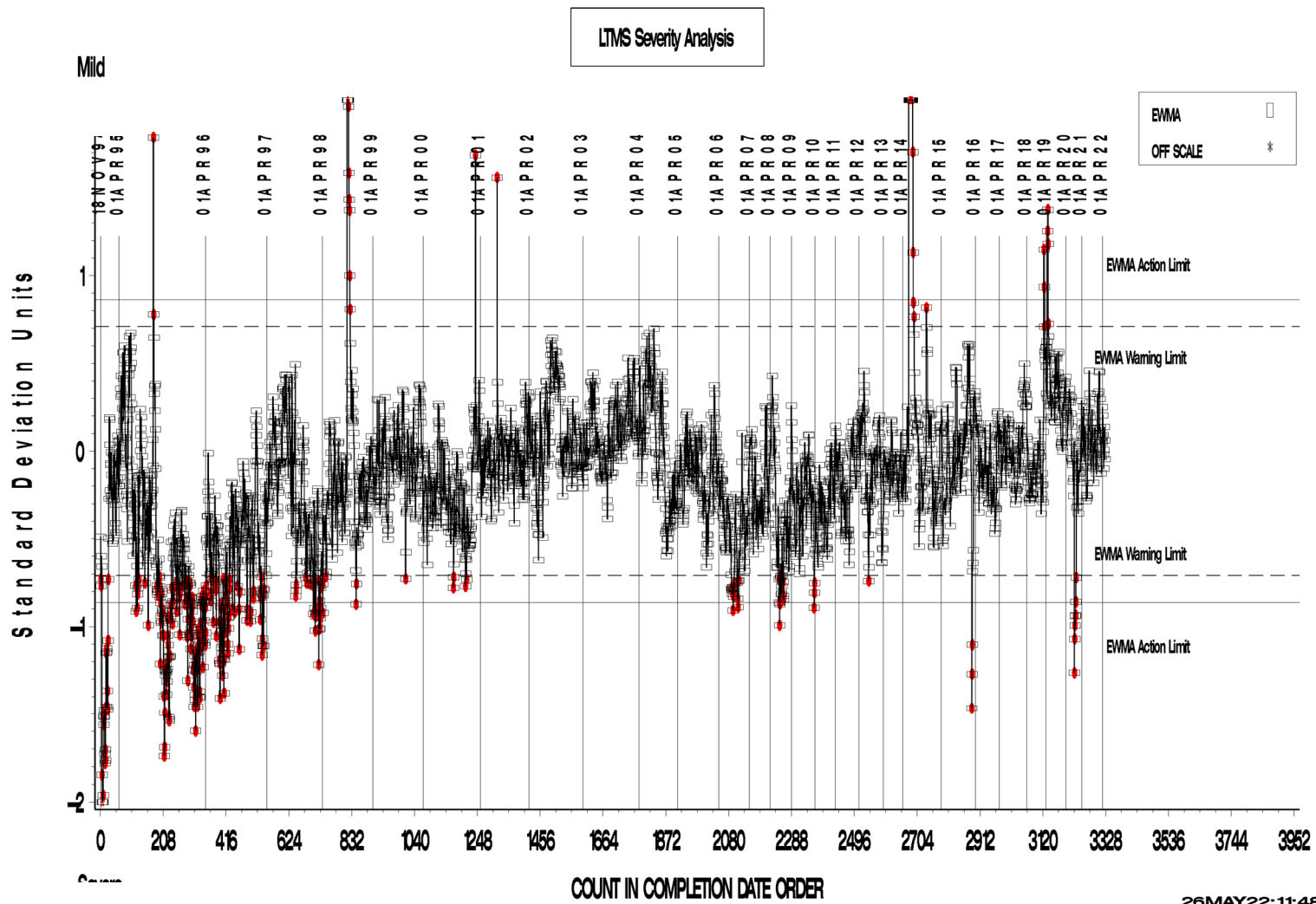
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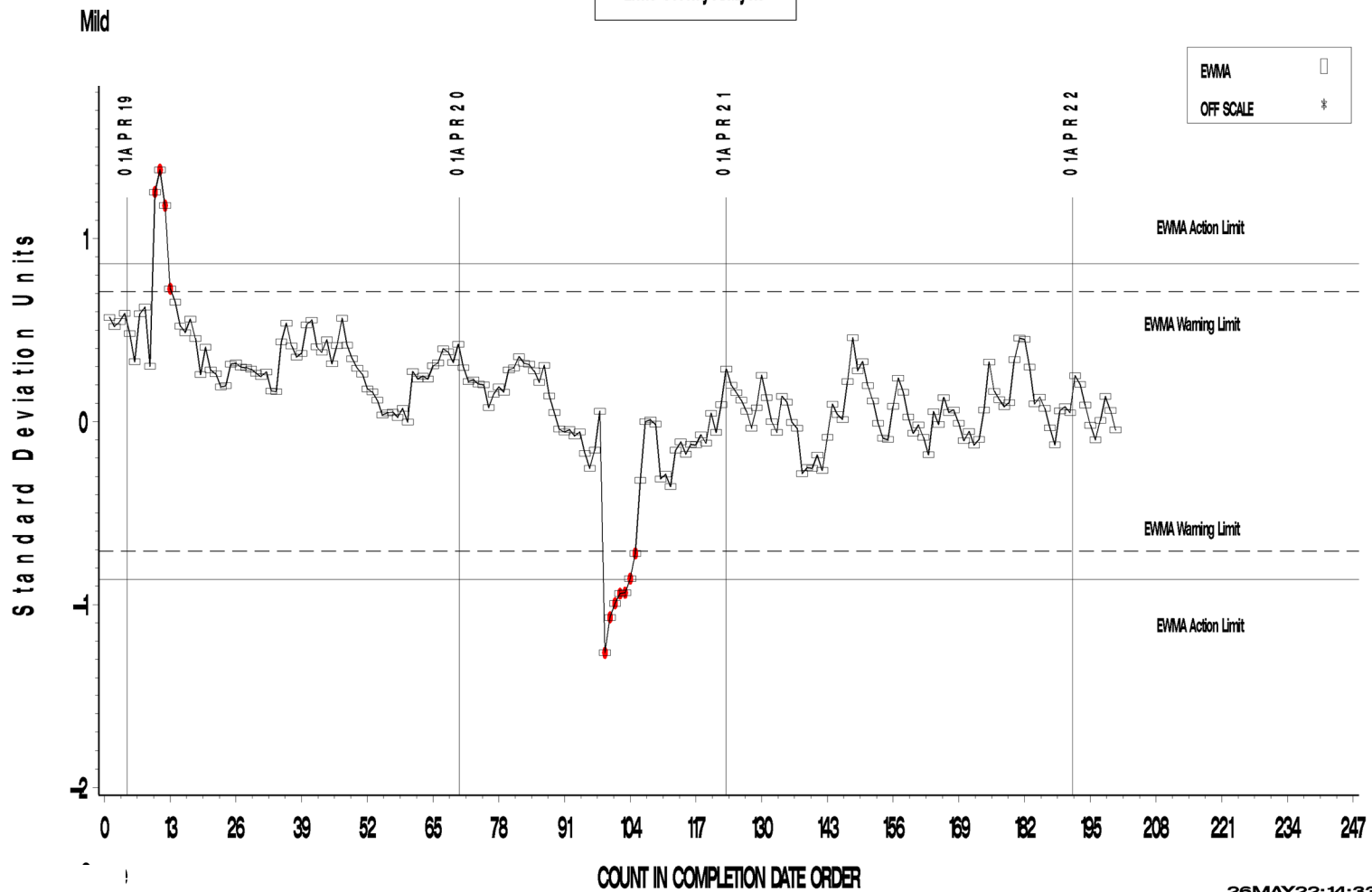
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LTMS Severity Analysis



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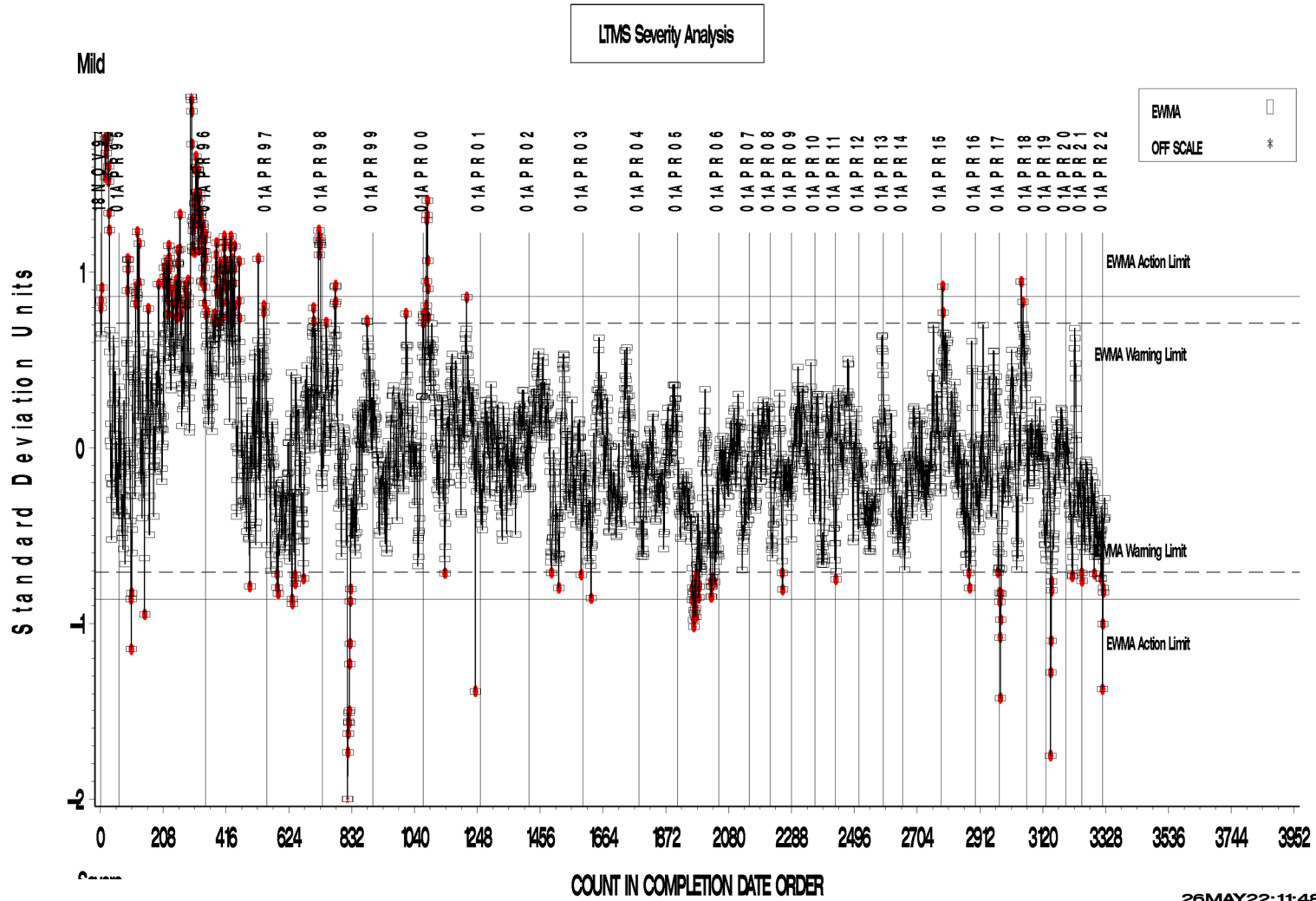
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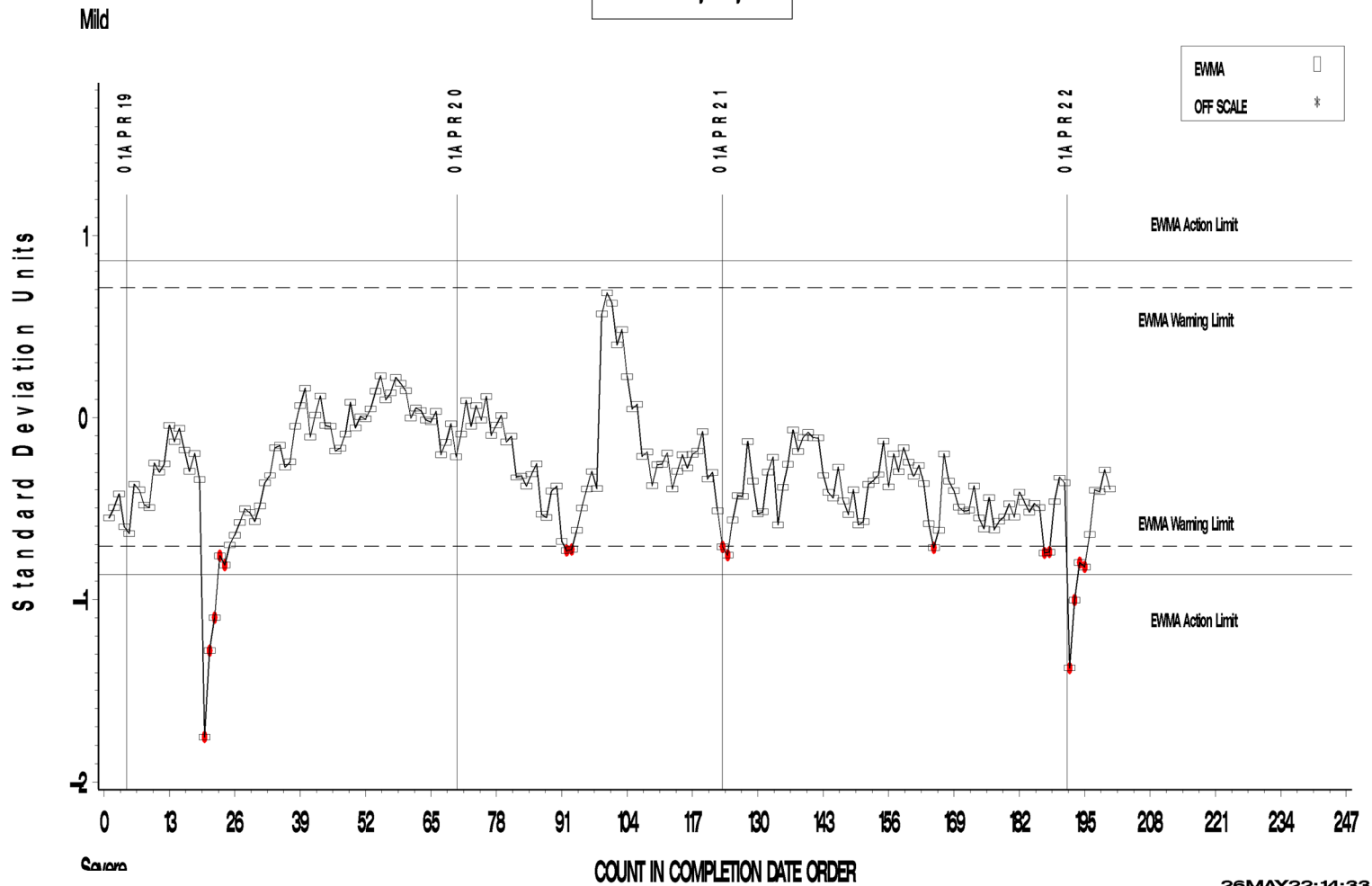
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LTMS Severity Analysis



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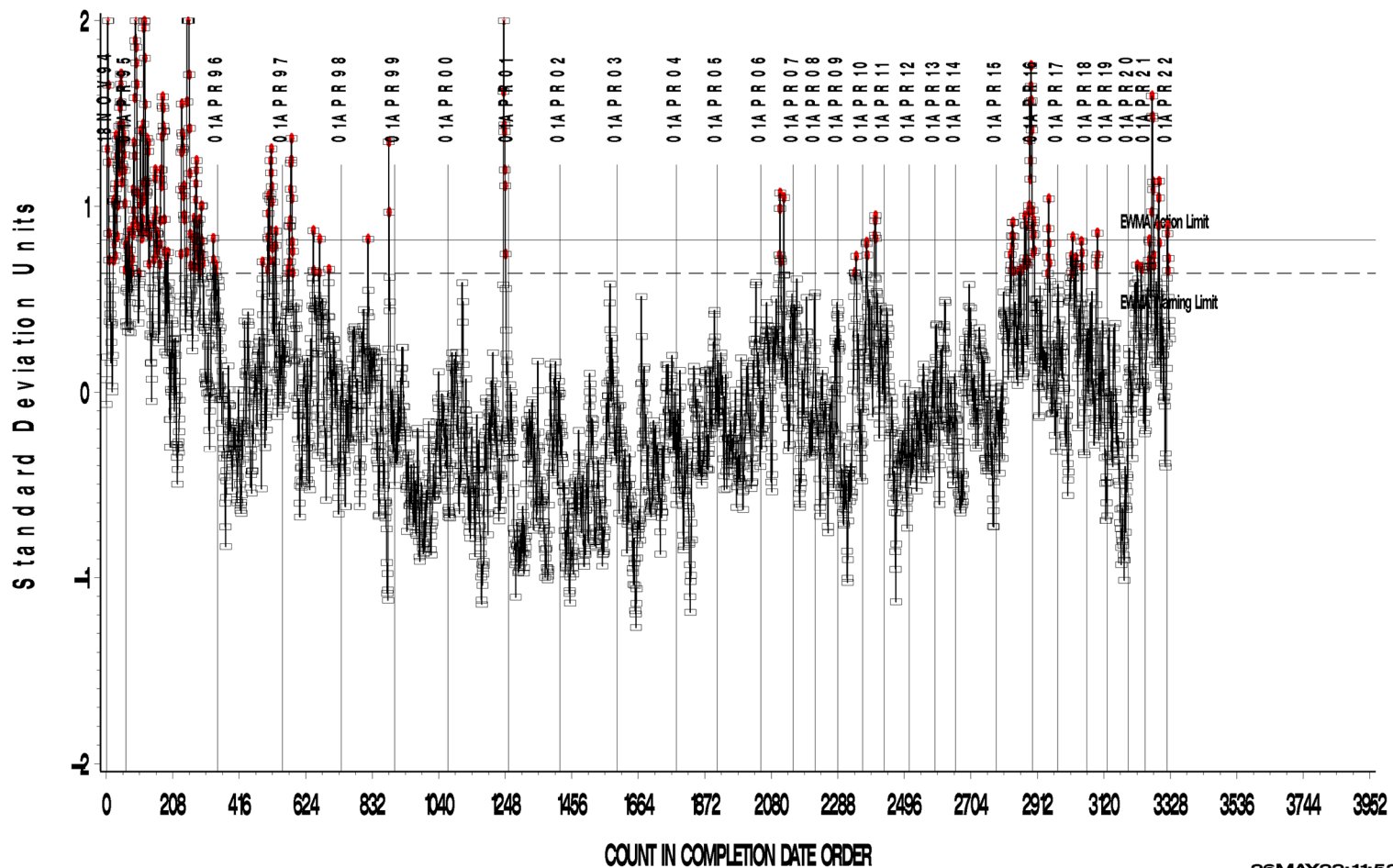
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LTVS Precision Analysis



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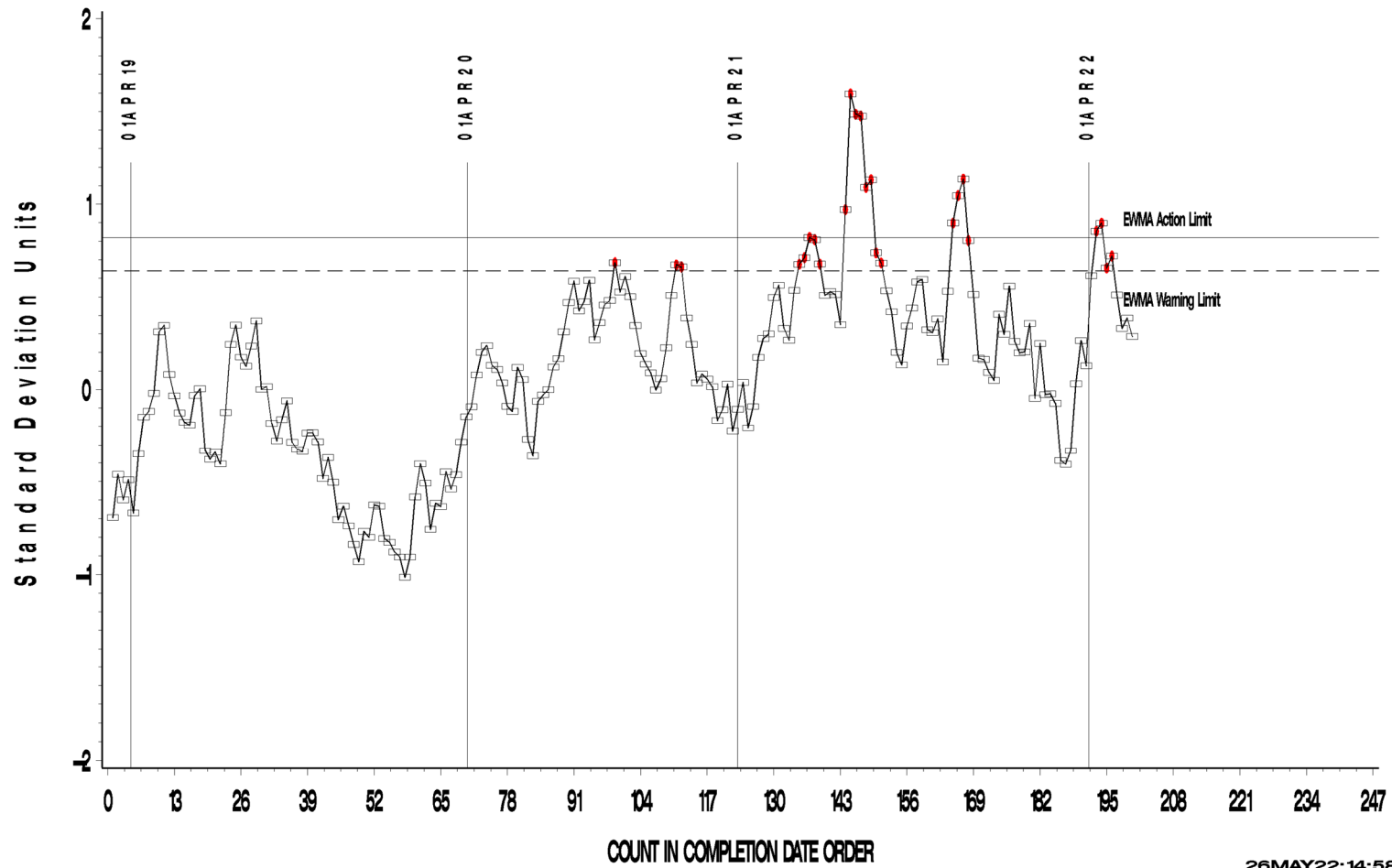
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LTVS Precision Analysis



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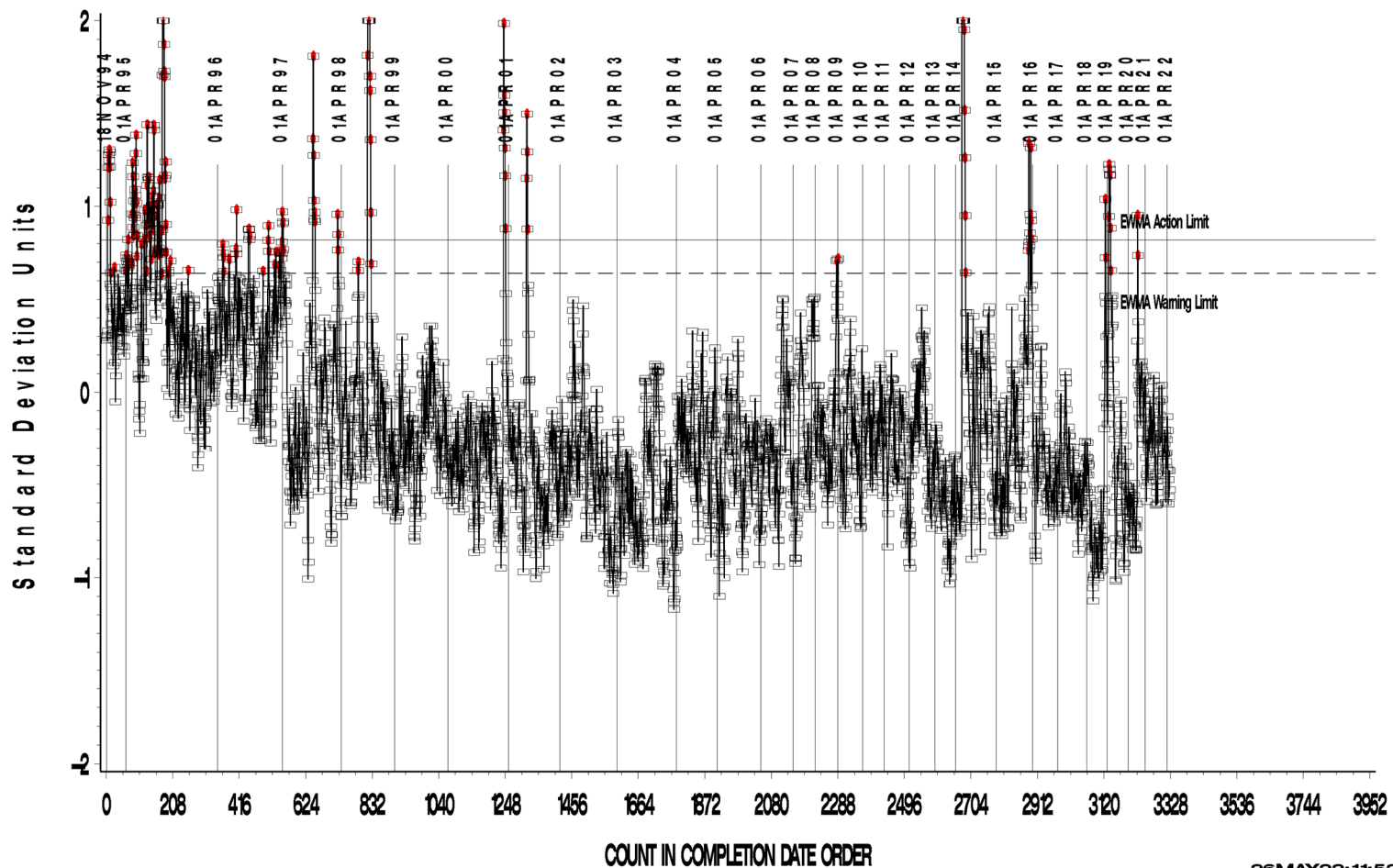
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LTVS Precision Analysis



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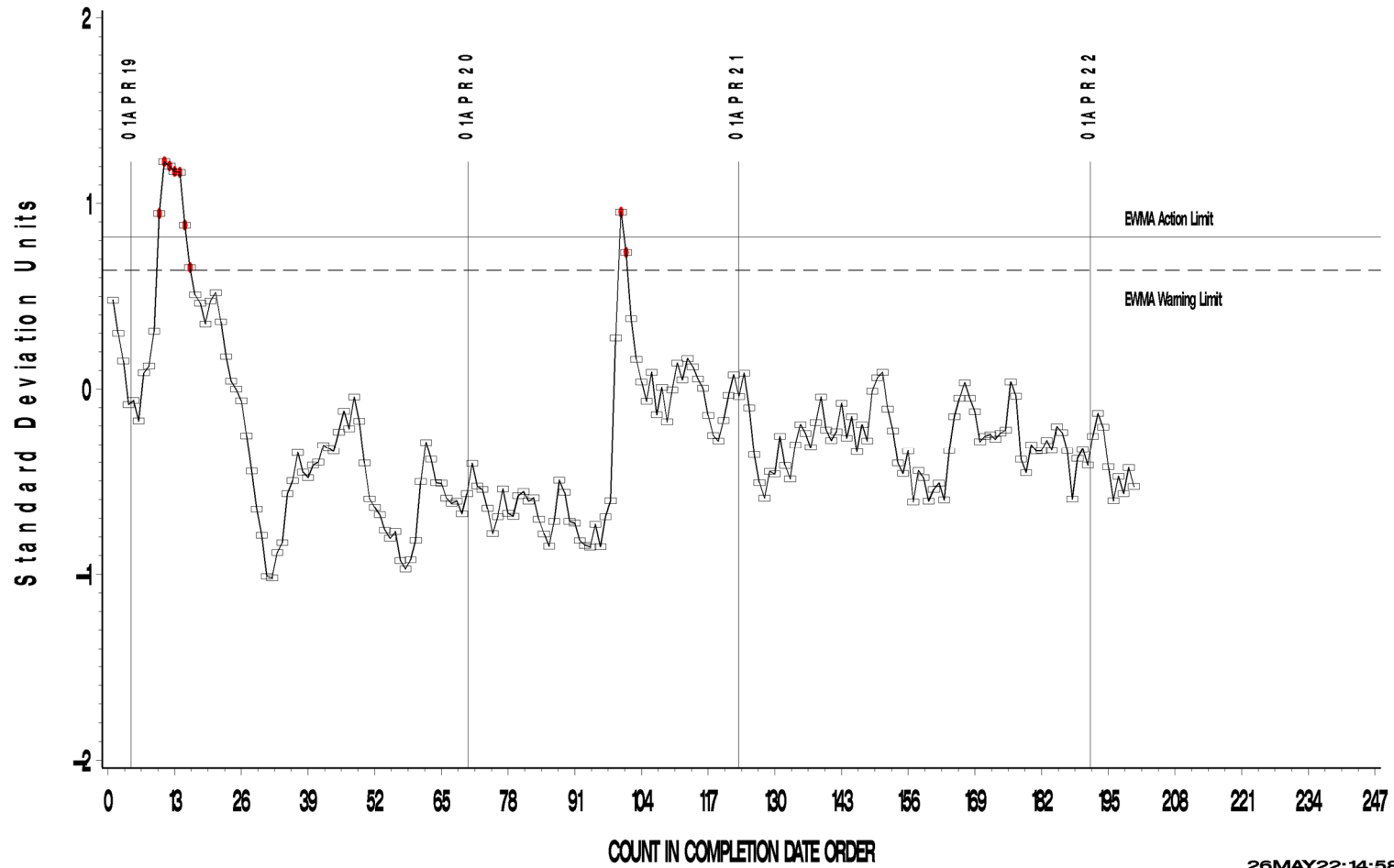
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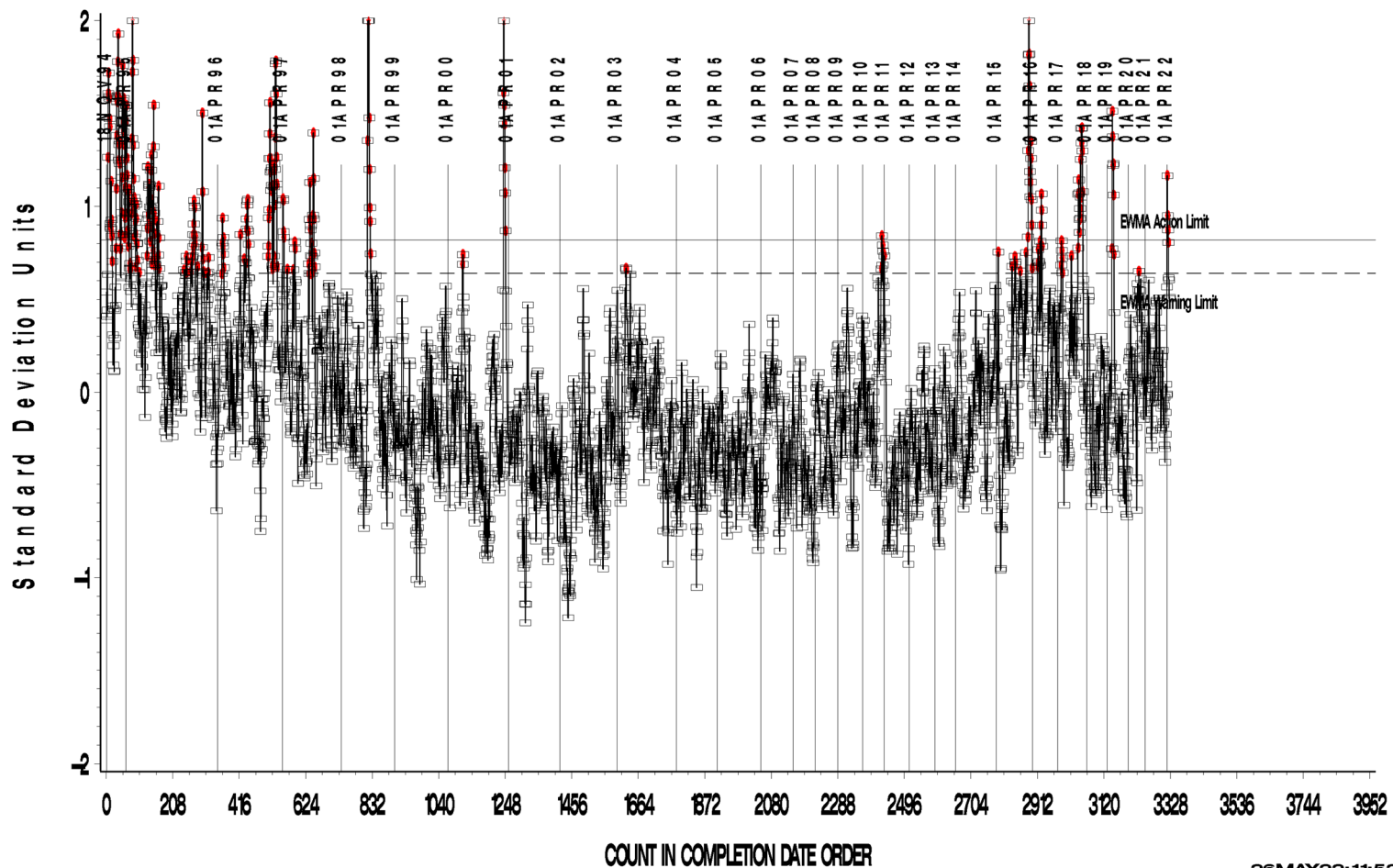
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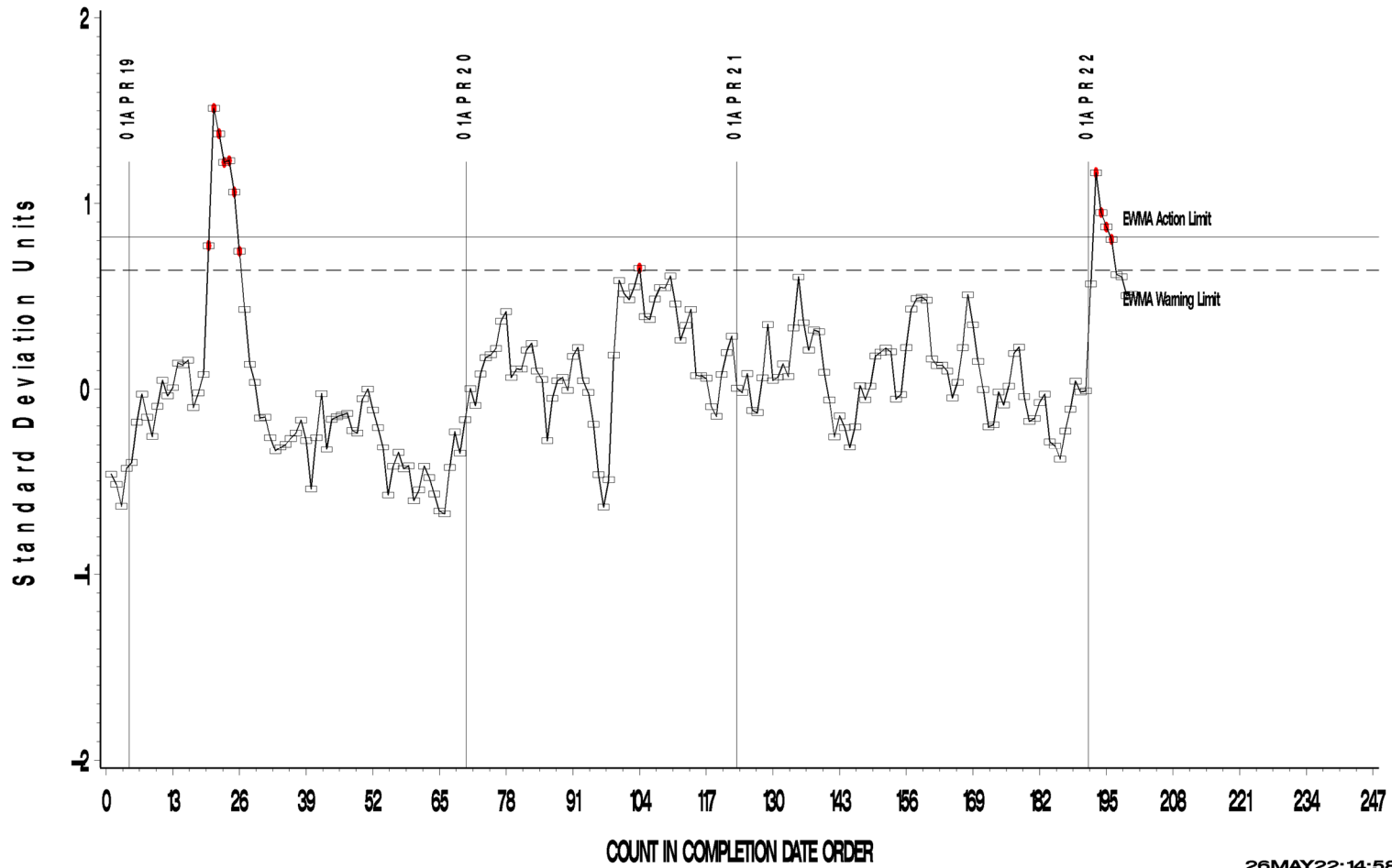
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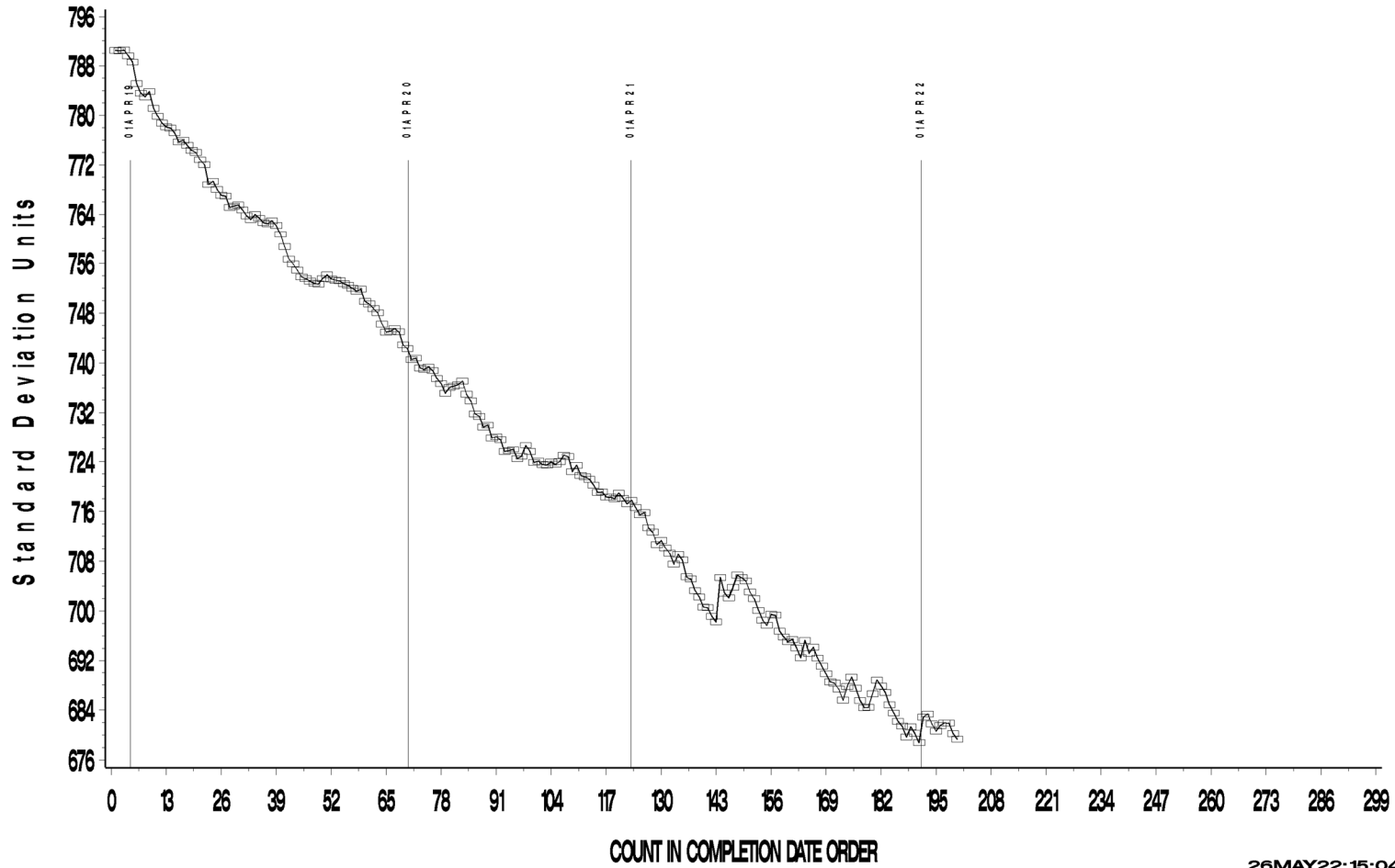
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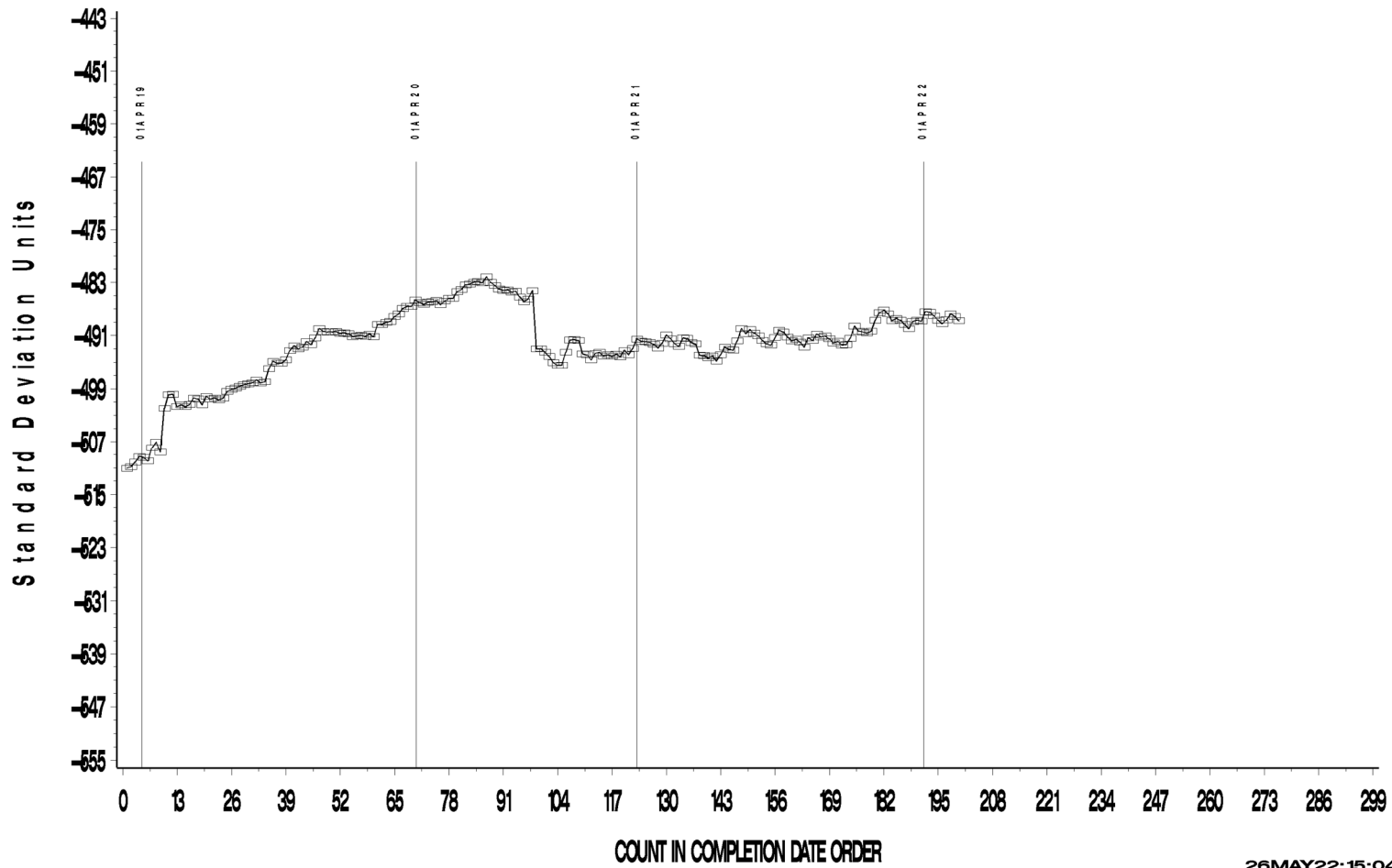
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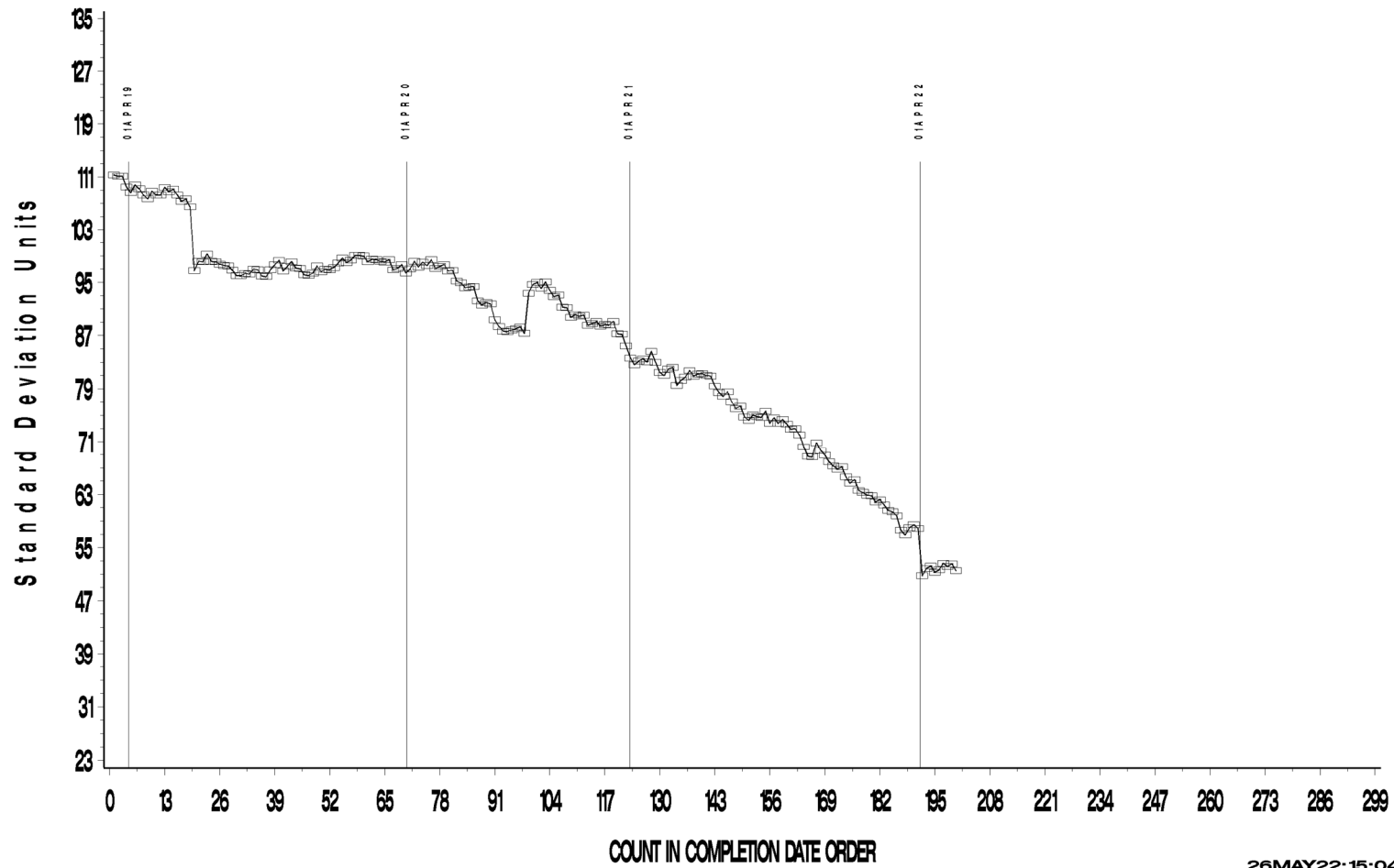
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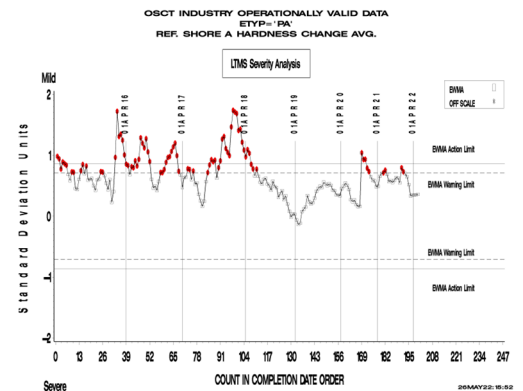
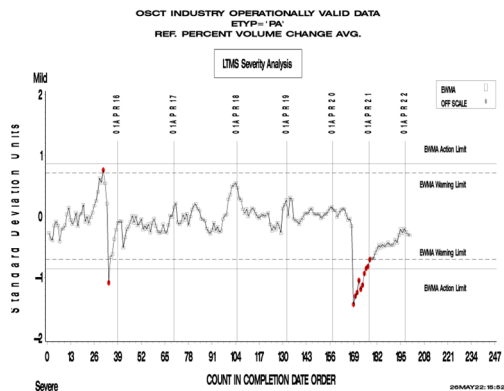
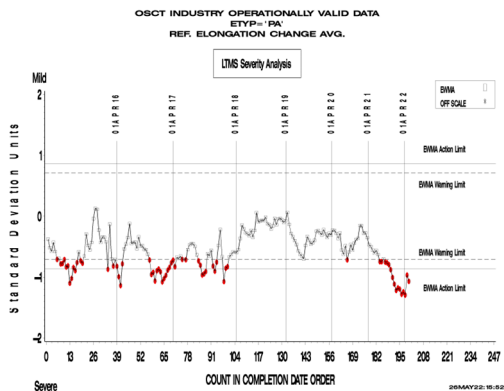
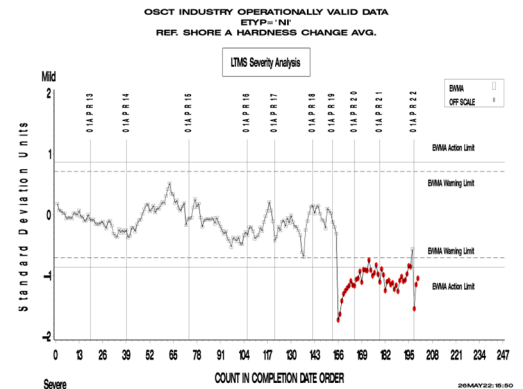
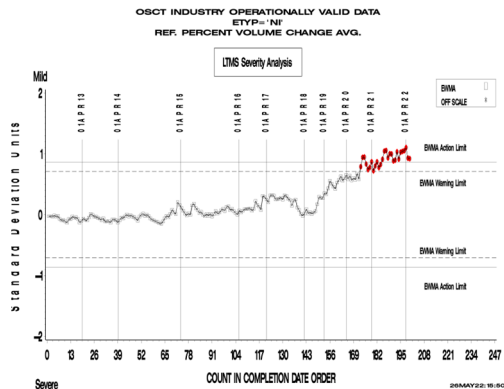
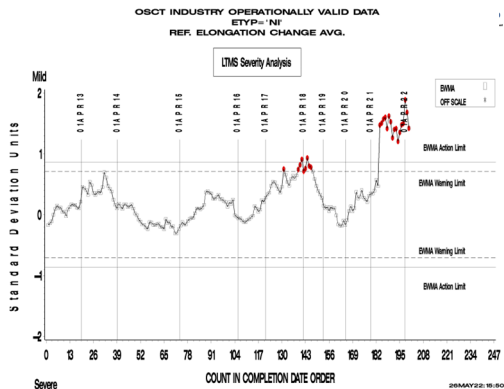
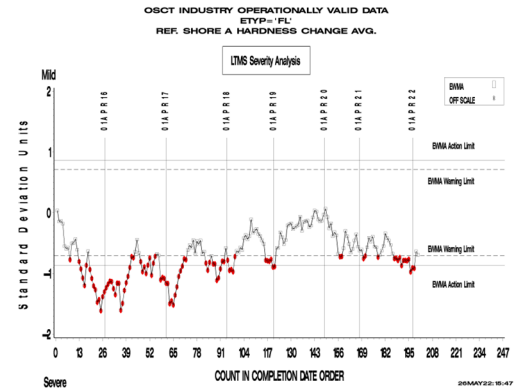
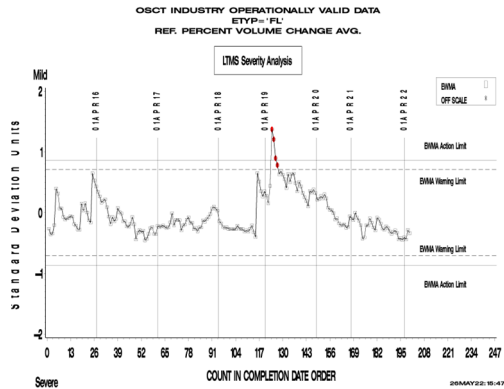
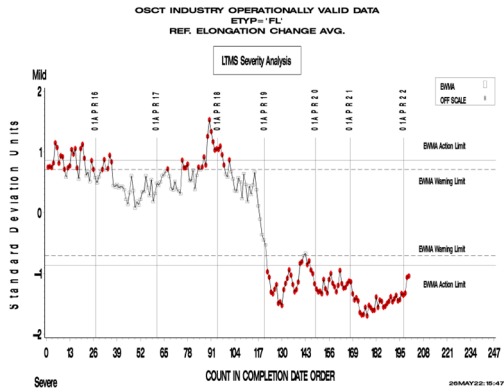
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TIMELINE ADDITIONS

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

Oil	Cans @ Labs	@ TMC	Gallons
		Cans	
155-1	10	160	31.8
160-1	2	0	0.0
168	13	0	0.0
169	32	655	129.8
170	23	133	26.5
171	36	88	17.6
Total	116	1036	205.7

Oil 168 is nearing depletion. 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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