



Test Monitoring Center

203 Armstrong Drive, Freeport, PA 16229, USA

www.astmtmc.org
412-365-1000

MEMORANDUM: 22-039
DATE: November 16, 2022
TO: Don Bell, Chairman, OSCT Surveillance Panel
FROM: Dylan Beck *Dylan Beck*
SUBJECT: OSCT Reference oil testing from April 1, 2022 through September 30, 2022

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

DJB/djb/mem22-039.djb.doc

cc: Jeff Clark

Sean Moyer

OSCT Surveillance Panel

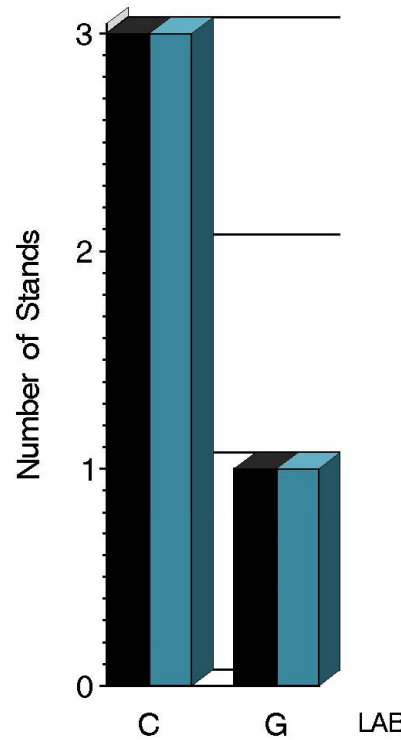
<https://www.astmtmc.org/ftp/docs/gear/osct/semiannualreports/osct-10-2022.pdf>

Distribution: email

OSCT (D5662)

	Reporting Data	Calibrated on 9-30-2022
Number of Labs	2	2
Number of Stands	4	4

BY-LAB STAND
DISTRIBUTION



Report Period: ■ Current ■ Previous

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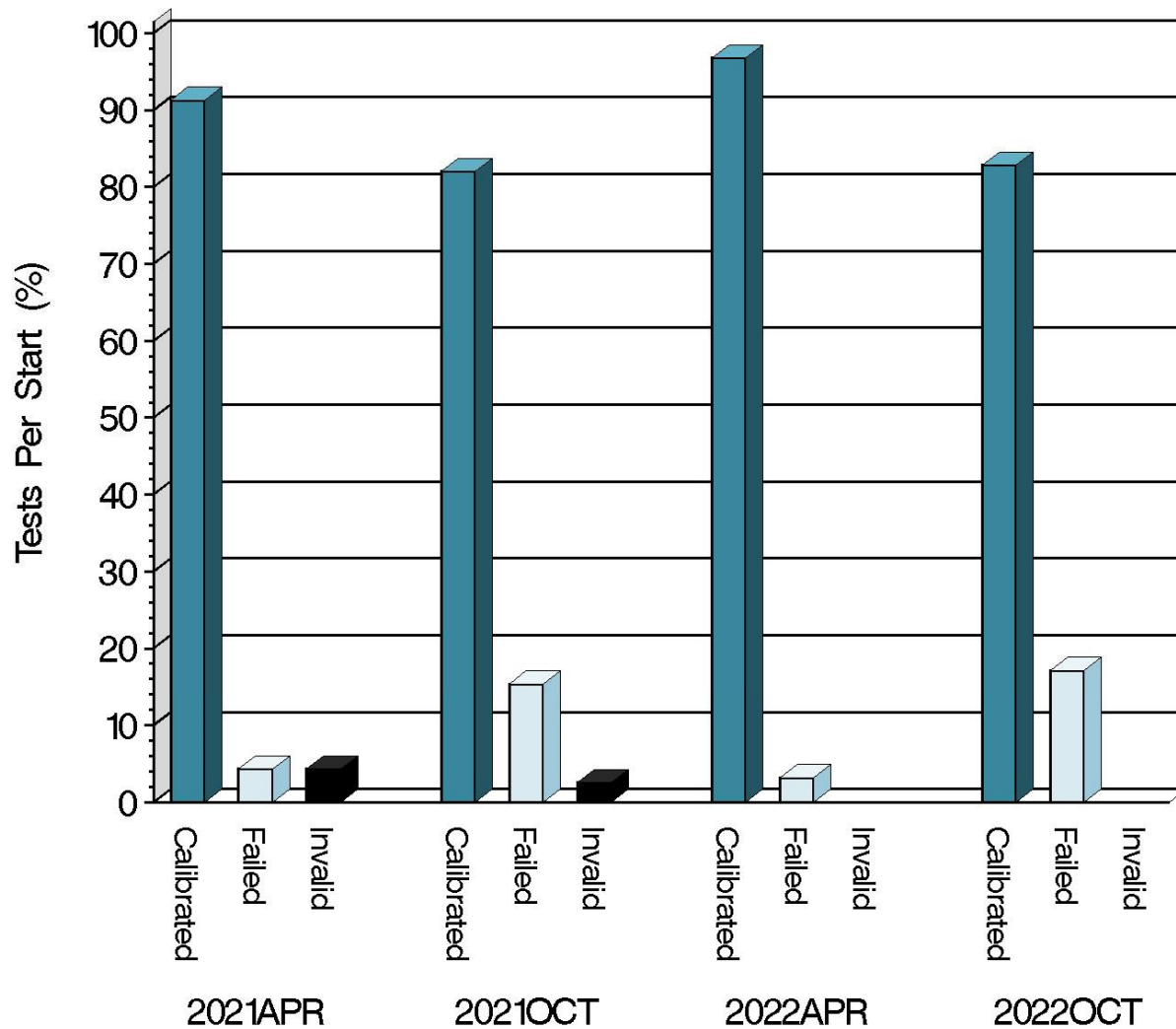
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Test Distribution by Elastomer and Validity

					Totals	
		FL	NI	PA	Last Period	This Period
Accepted for calibration	AC	12	8	9	30	29
Rejected (low result)	OC	1	1	1	0	3
Rejected (high result)	OC	0	1	0	1	1
Rejected (high and low)	OC	0	0	1	0	1
Op. invalid	LC	0	0	0	0	0
Aborted	XC	0	0	0	0	0
Elastomer approval run	NI	7	5	3	13	15
Invalid information run	MI	0	5	0	3	5
Op. invalid approval run	LI	0	0	0	0	0
Total		20	20	14	47	54

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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									54	0%
	Lost	0	0	0	0	0	0	0			
	Starts	20	20	14	54	54	54	54			
	%	0%	0%	0%	0%	0%	0%	0%			



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Average Δ/s by Lab

Elastomer	Lab	N	PELA	PVCA	SAHA
FL	C	8	-0.700	-0.869	-0.244
	G	5	-0.466	-0.137	0.219
	Industry	13	-0.610	-0.588	-0.066
	Shift*	13	-4.675	-0.312	-0.092
NI	C	6	1.316	0.956	-1.509
	G	4	1.644	0.404	-0.105
	Industry	10	1.447	0.736	-0.947
	Shift*	10	7.356	0.359	-1.088
PA	C	8	-1.824	-0.390	0.529
	G	4	-1.369	-2.649	1.672
	Industry	12	-1.672	-1.143	0.910
	Shift*	12	-35.096	-2.147	2.298

*computed using historic pooled s



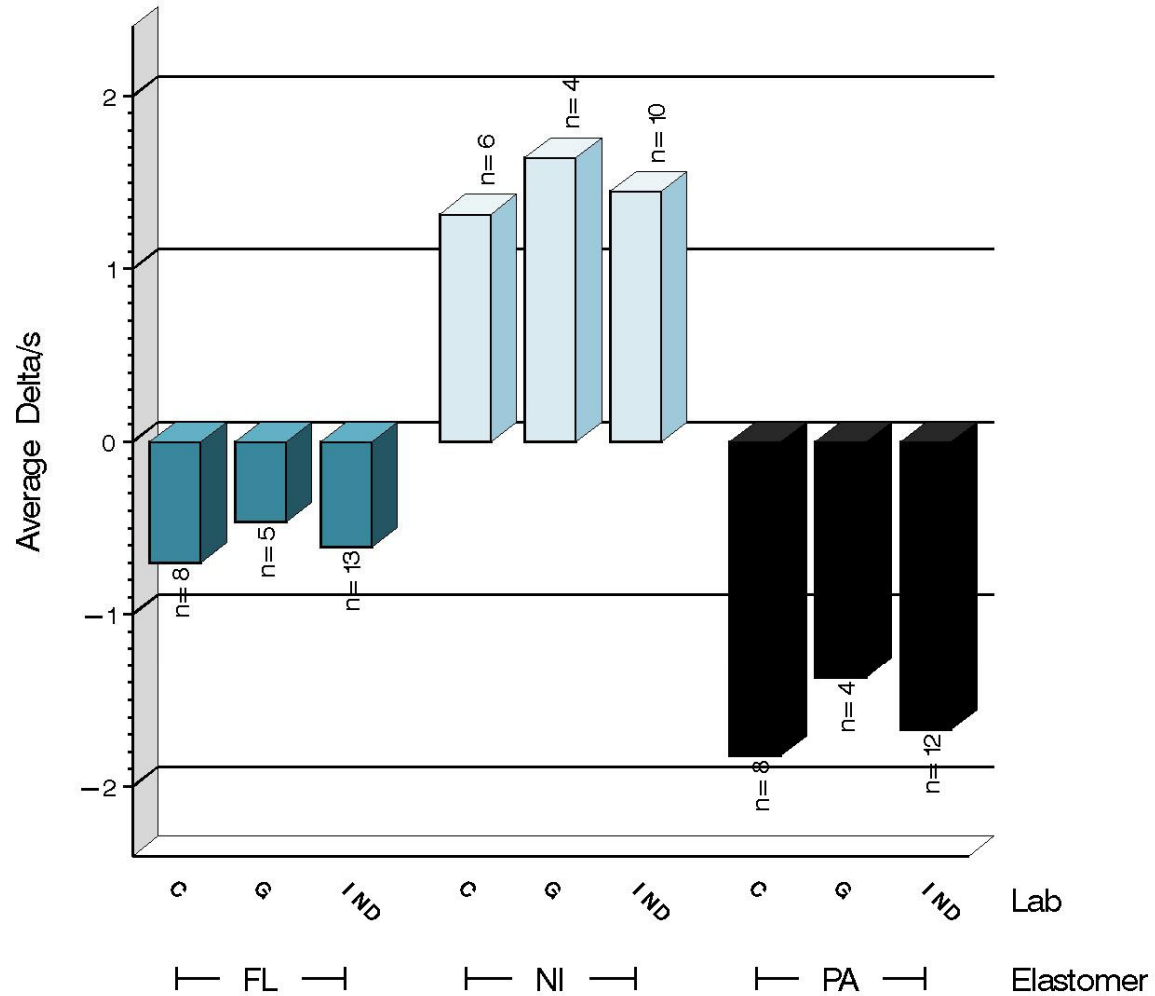
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%ELONGATION SEVERITY
DELTA/S BY LAB



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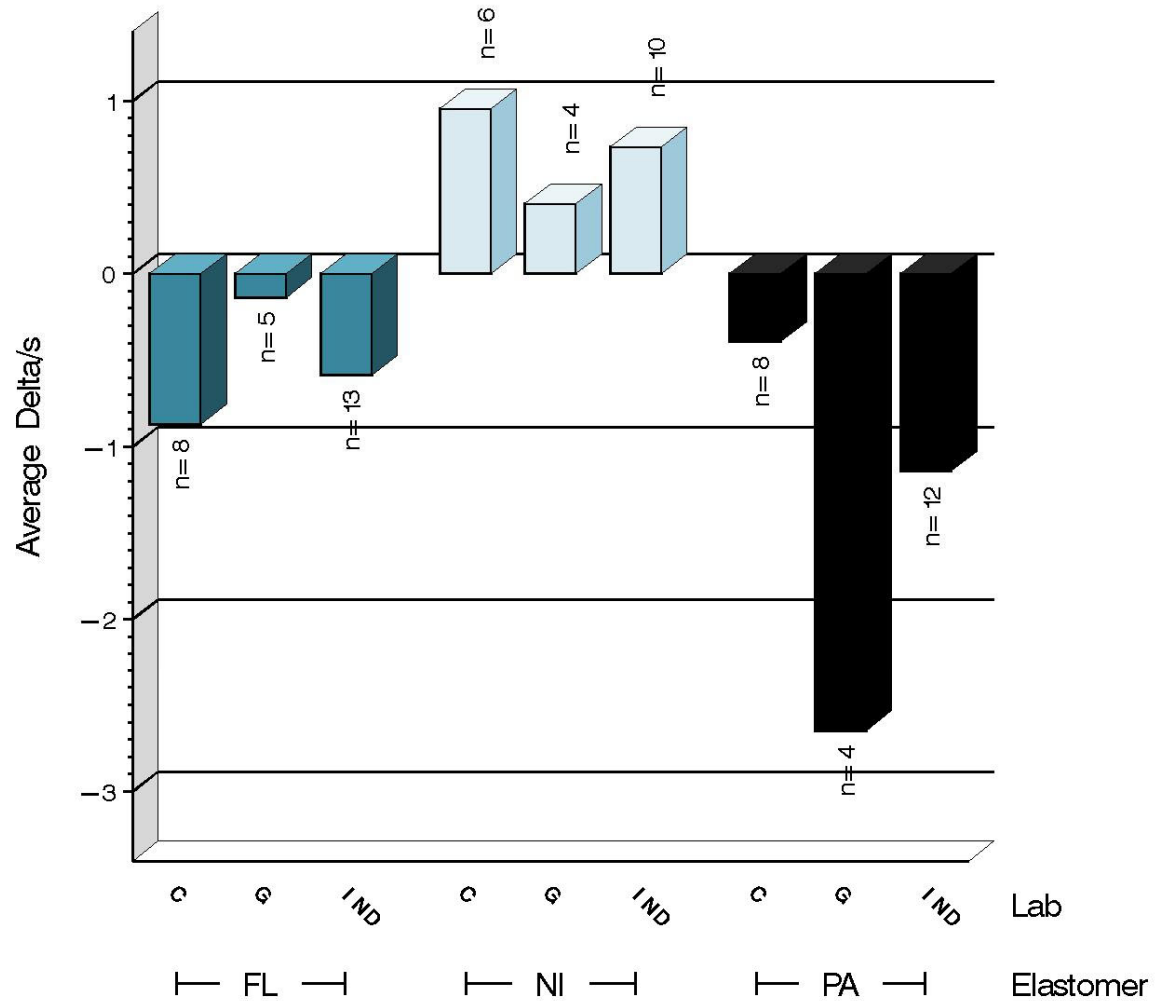
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%VOLUME CHANGE SEVERITY
DELTA/S BY LAB



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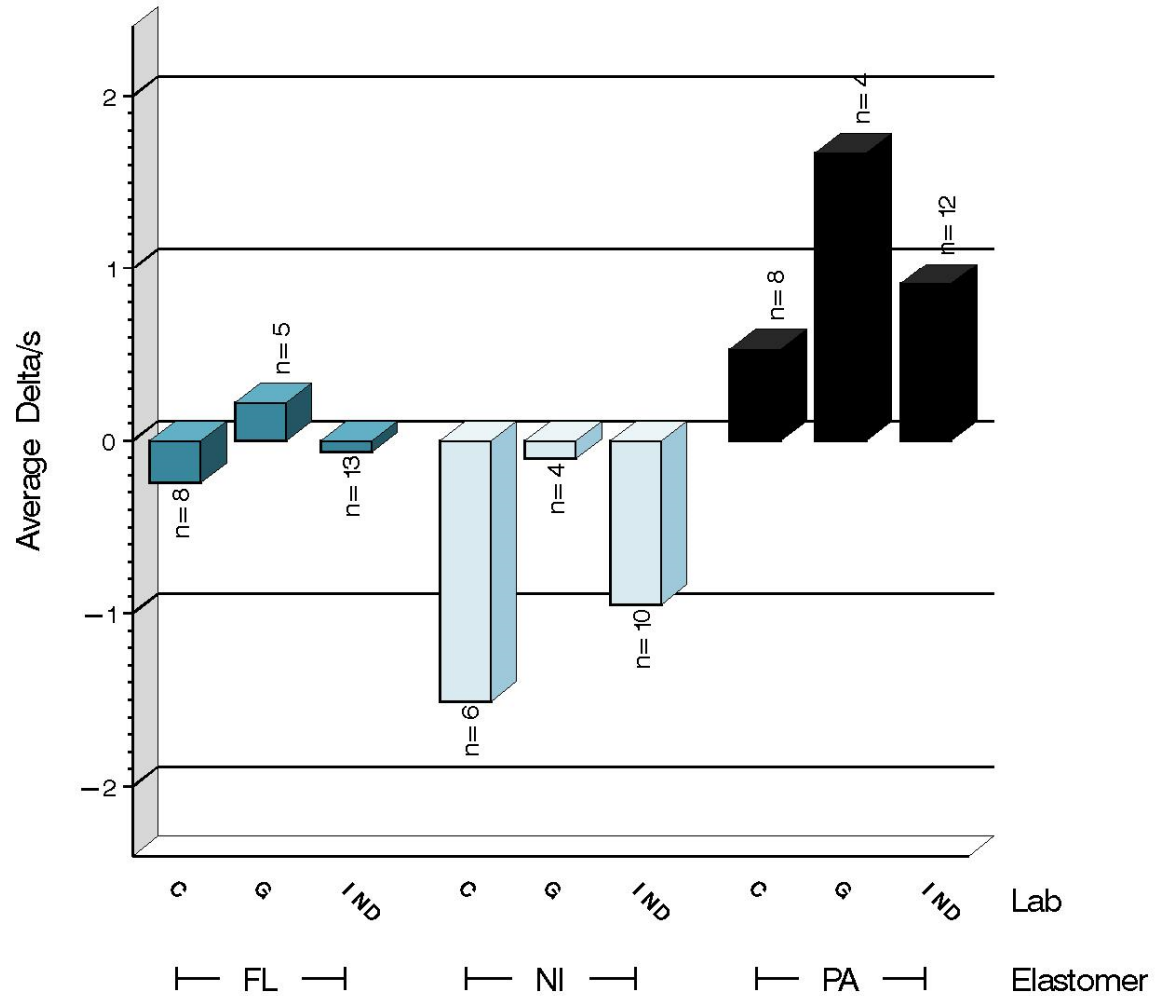
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S.A. HARDNESS SEVERITY
DELTA/S BY LAB



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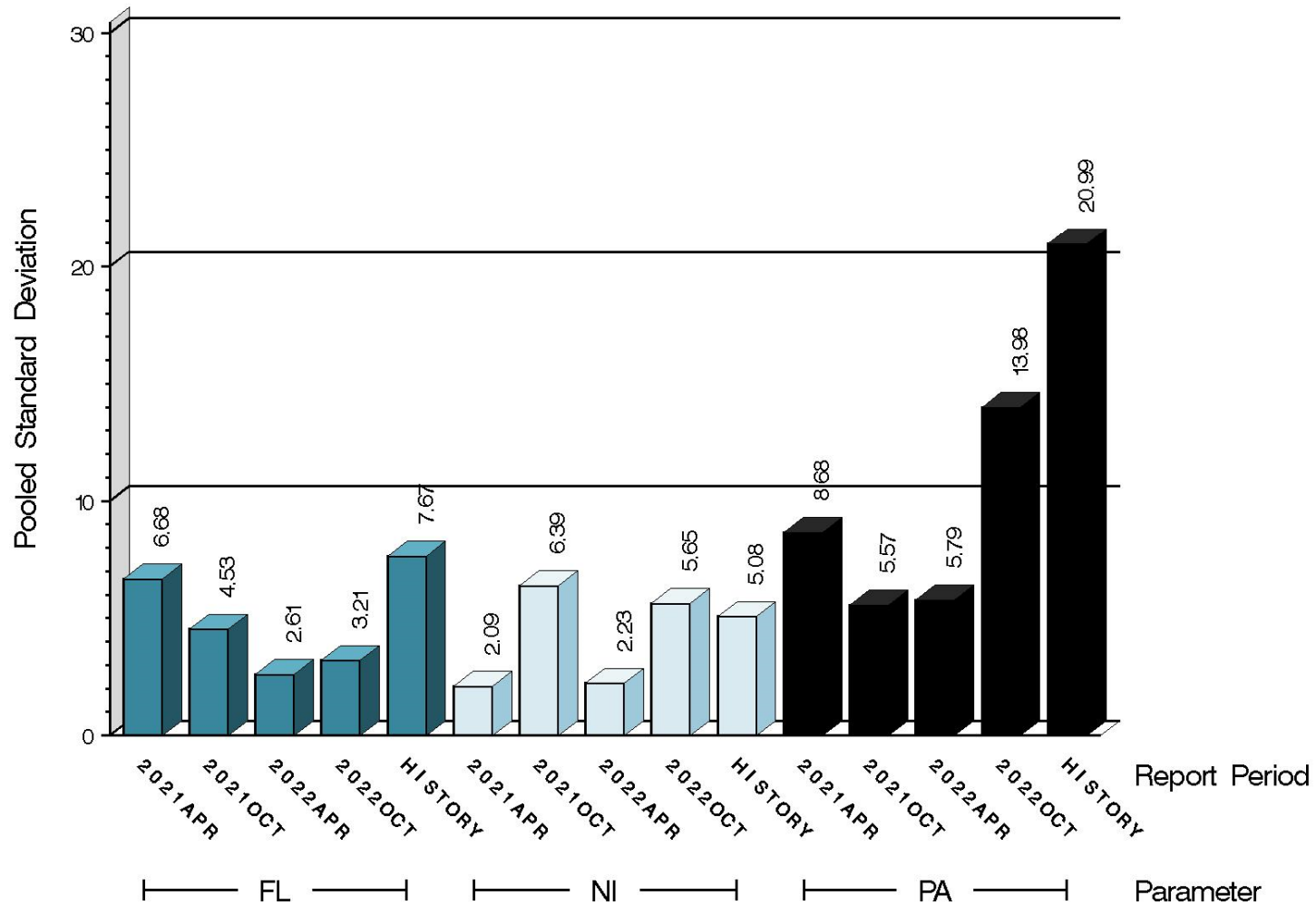
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%ELONGATION PRECISION
POOLED STANDARD DEVIATION
BY SIX-MONTH ASTM REPORT PERIOD



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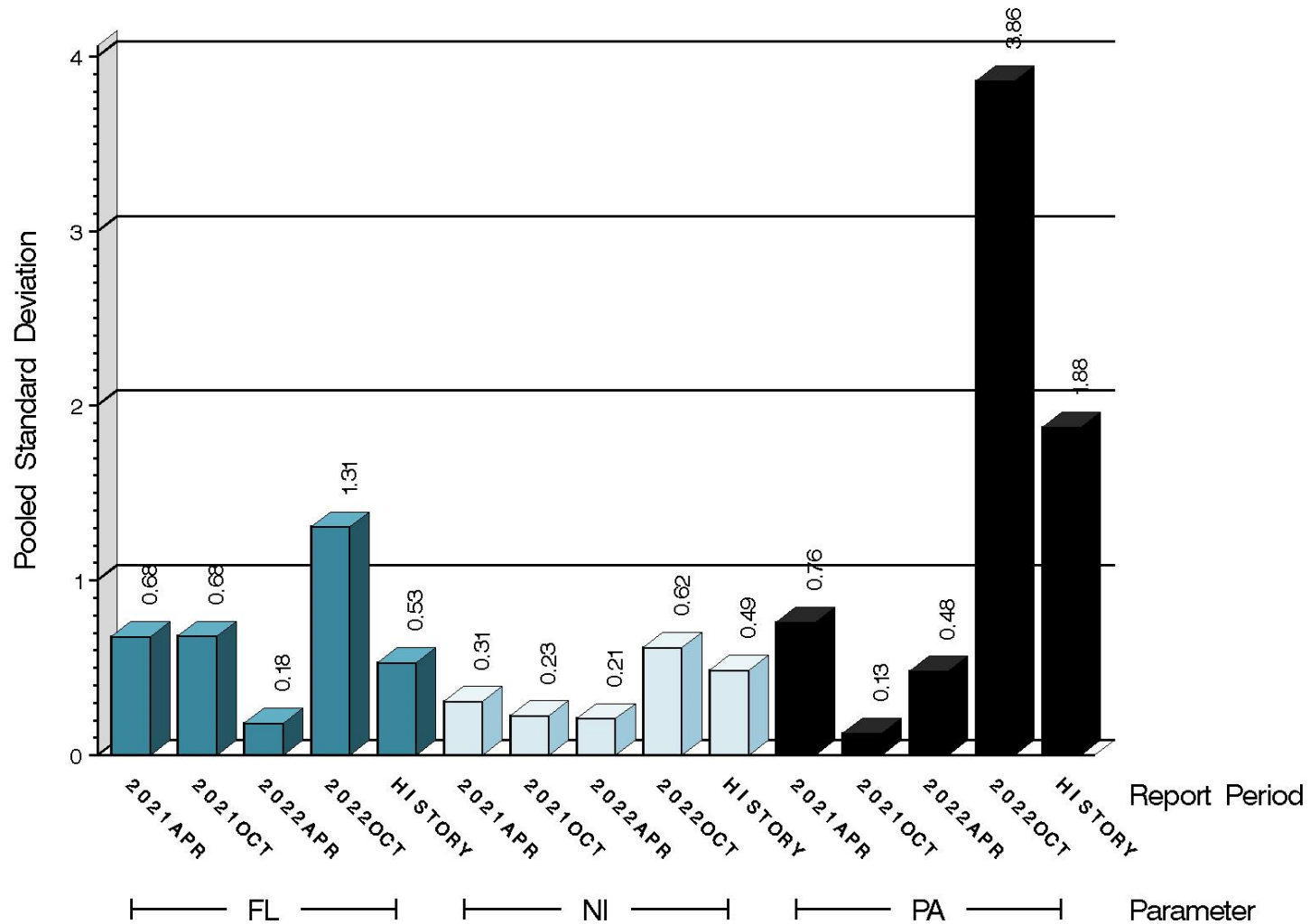
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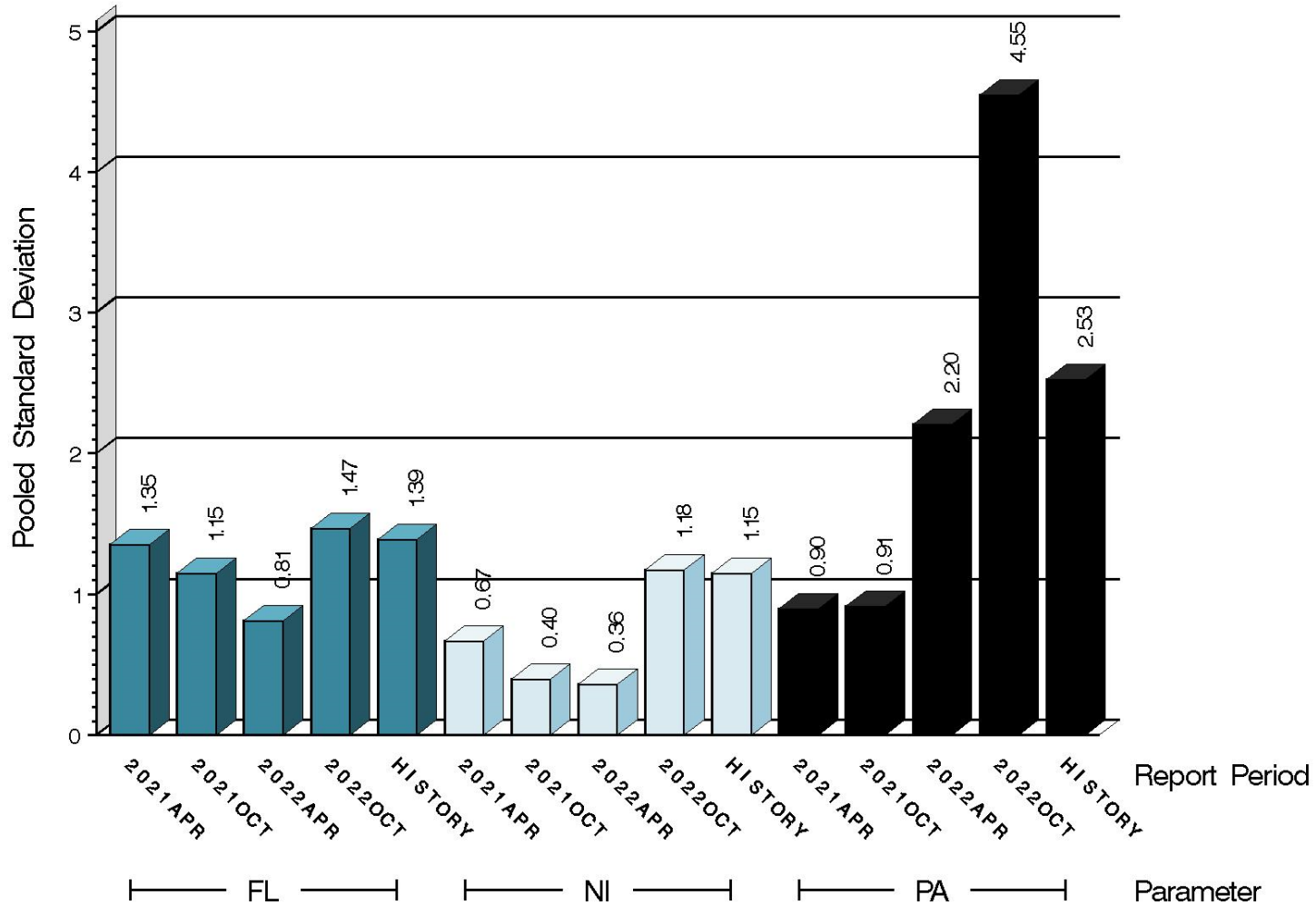
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SUMMARY OF SEVERITY & PRECISION

Severity

The combined-elastomer industry charts show that PVCA and PELA exceeded the limits in the severe direction this period. PELA is currently only exceeding the warning limit, and PVCA is back within the limits.

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

Precision

The combined-elastomer industry charts show that PELA exceeded the action limit during this period, but is now within the limits.

Industry control charts follow.



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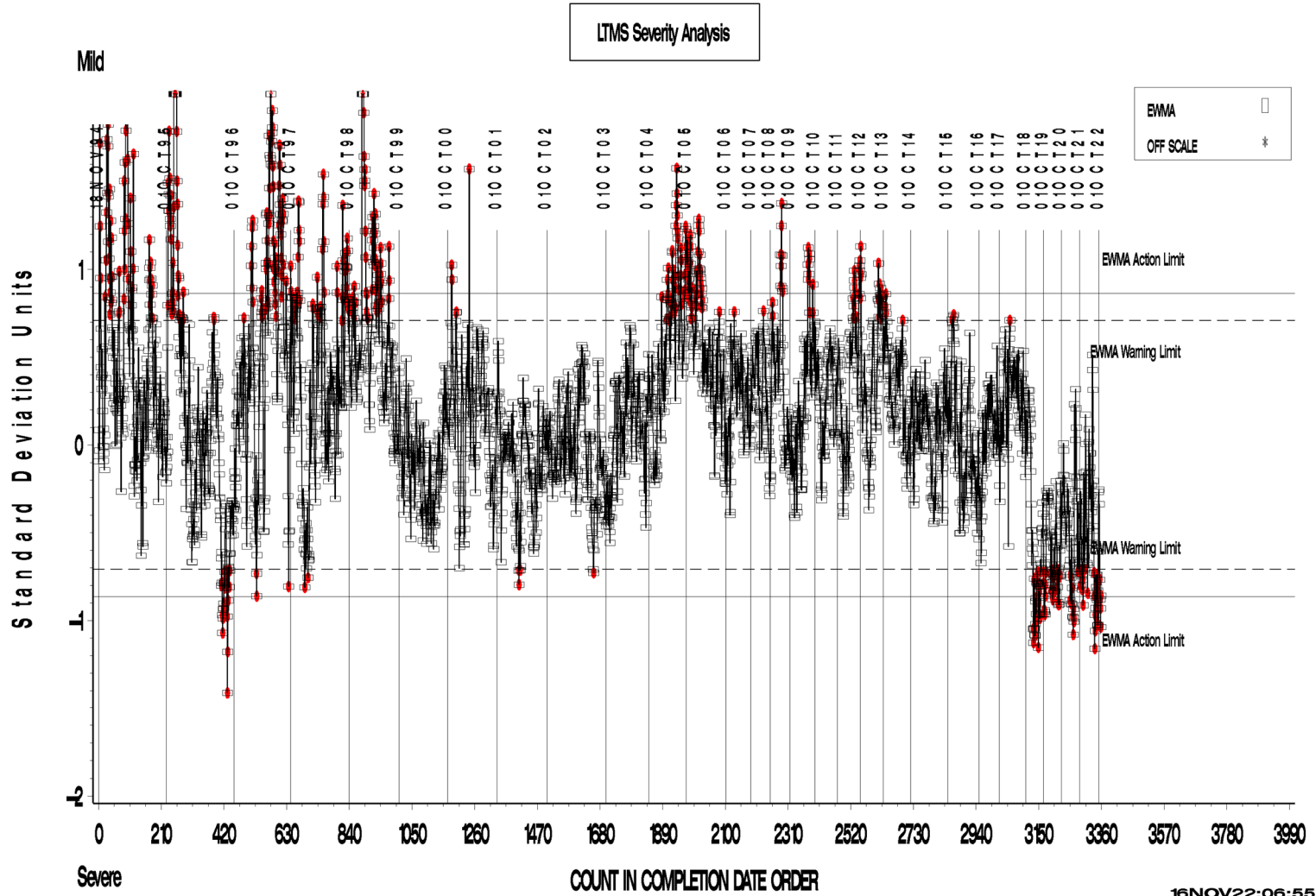
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REF. ELONGATION CHANGE AVG.



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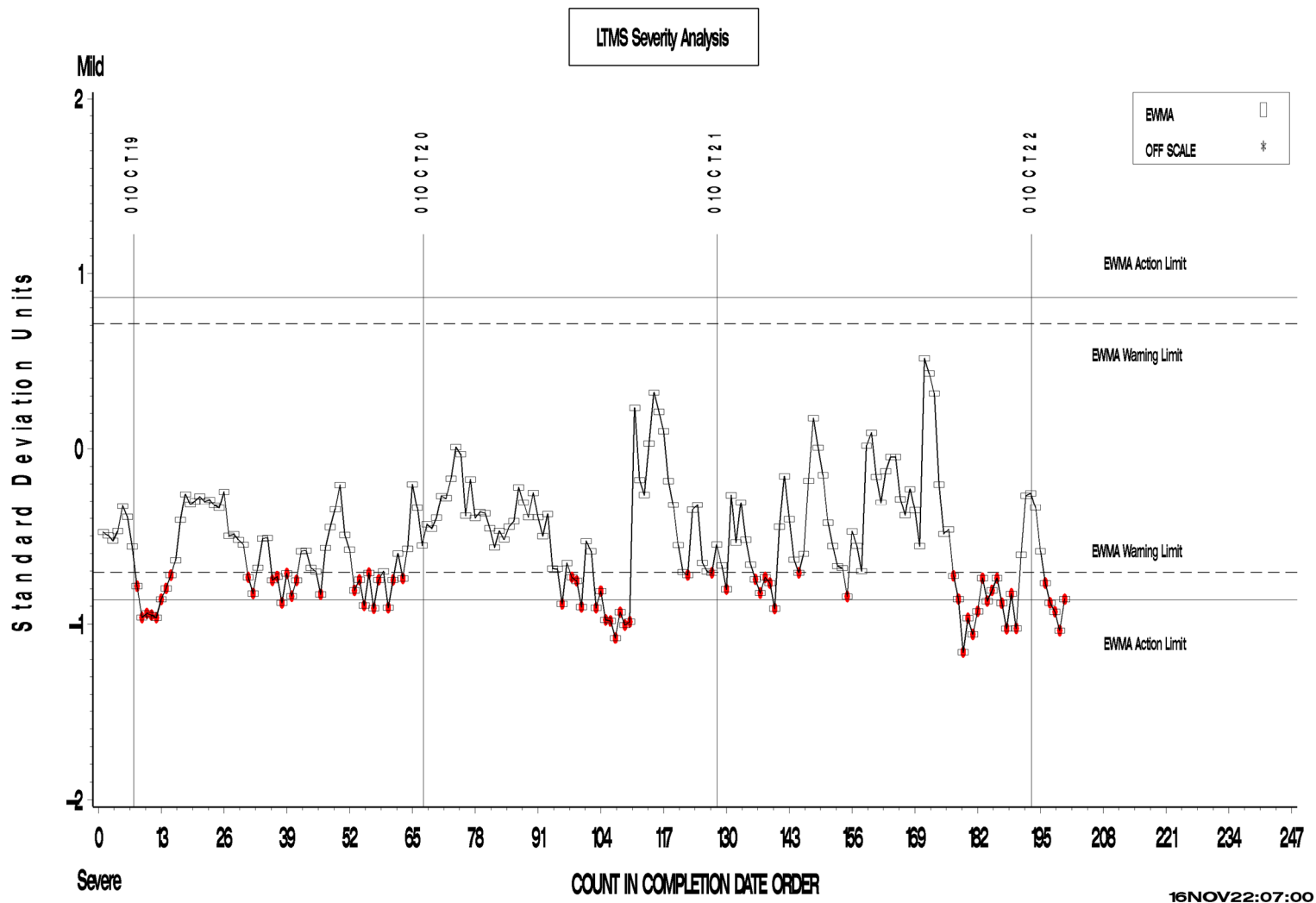
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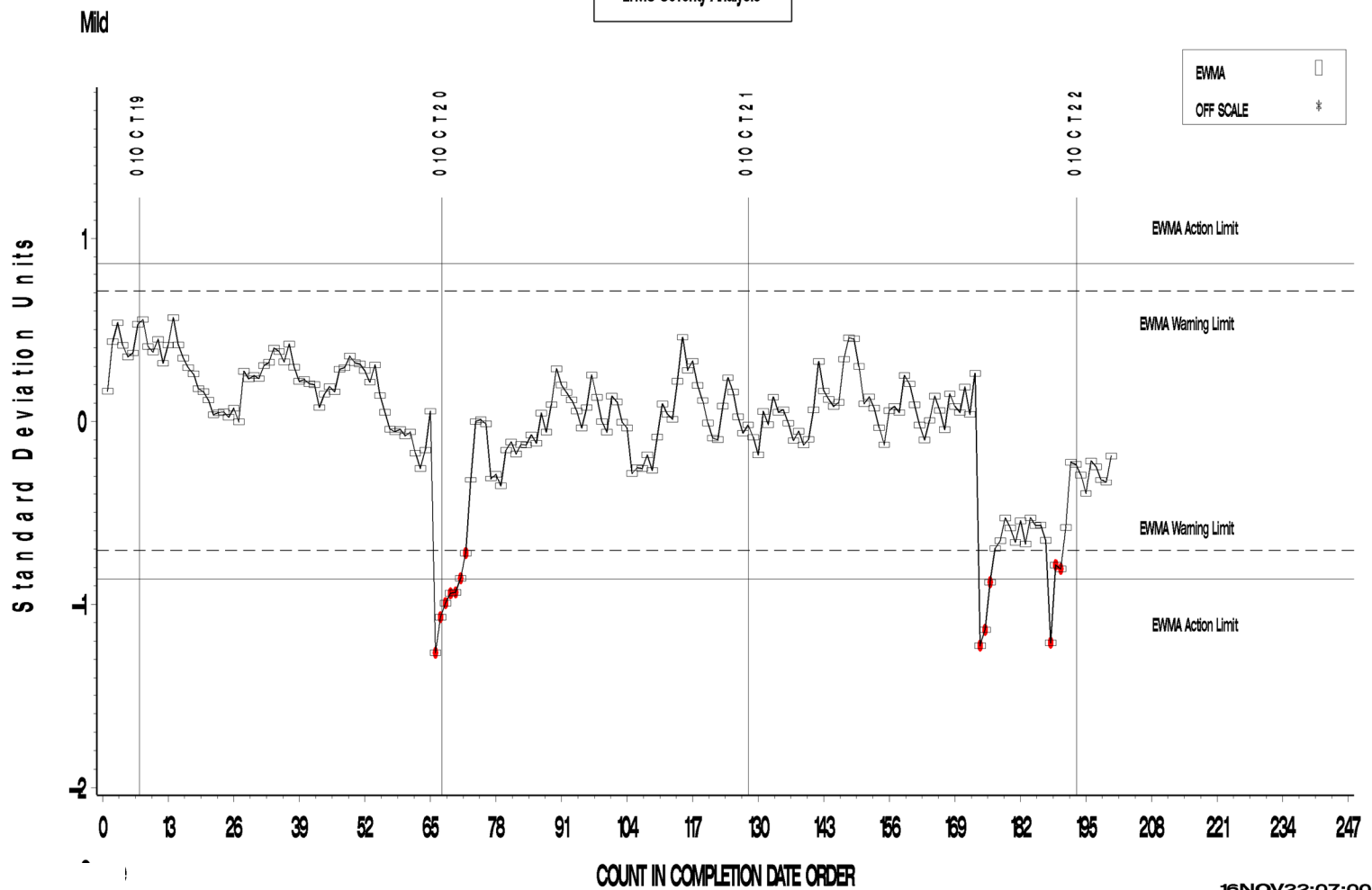
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LTMS Severity Analysis



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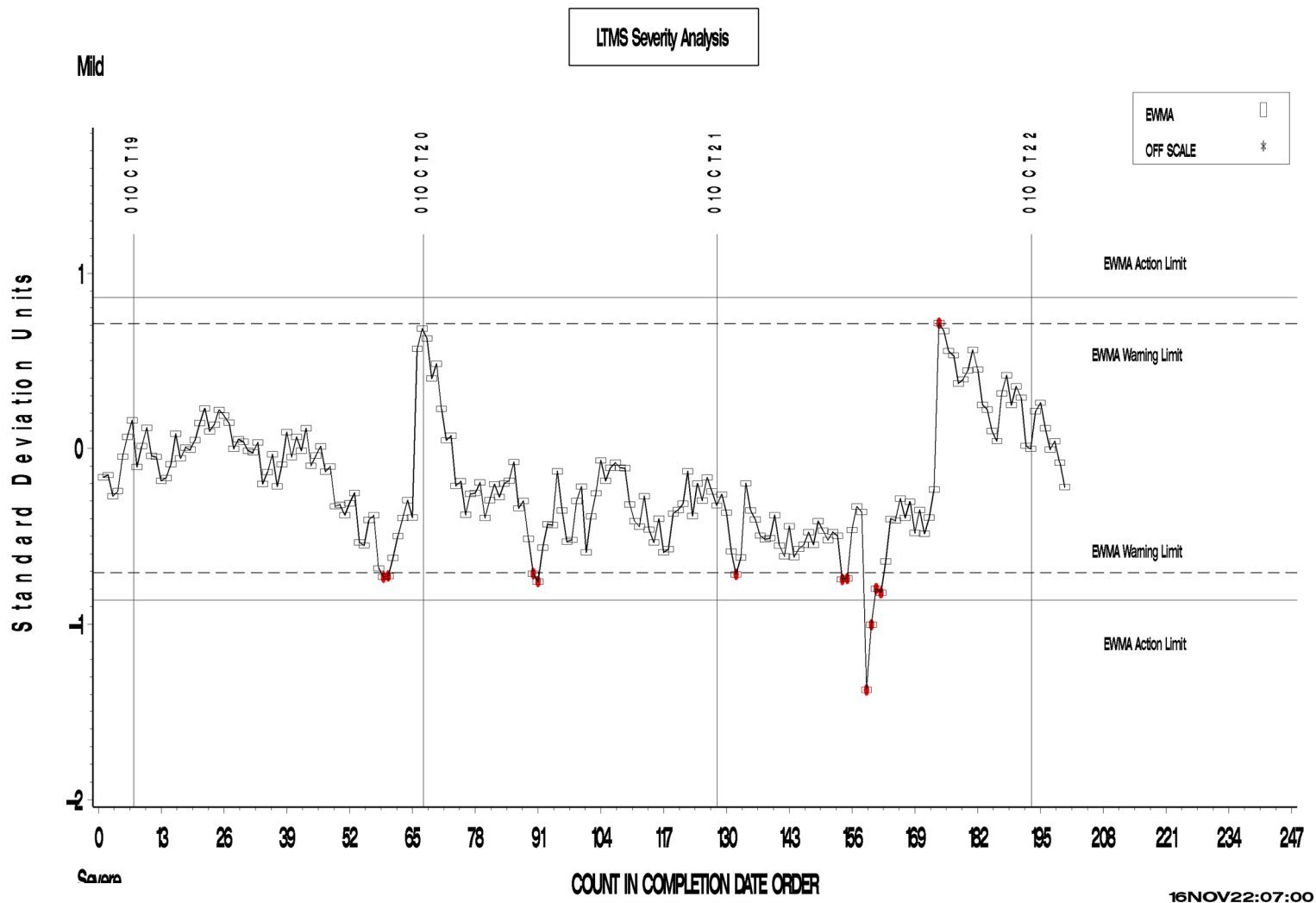
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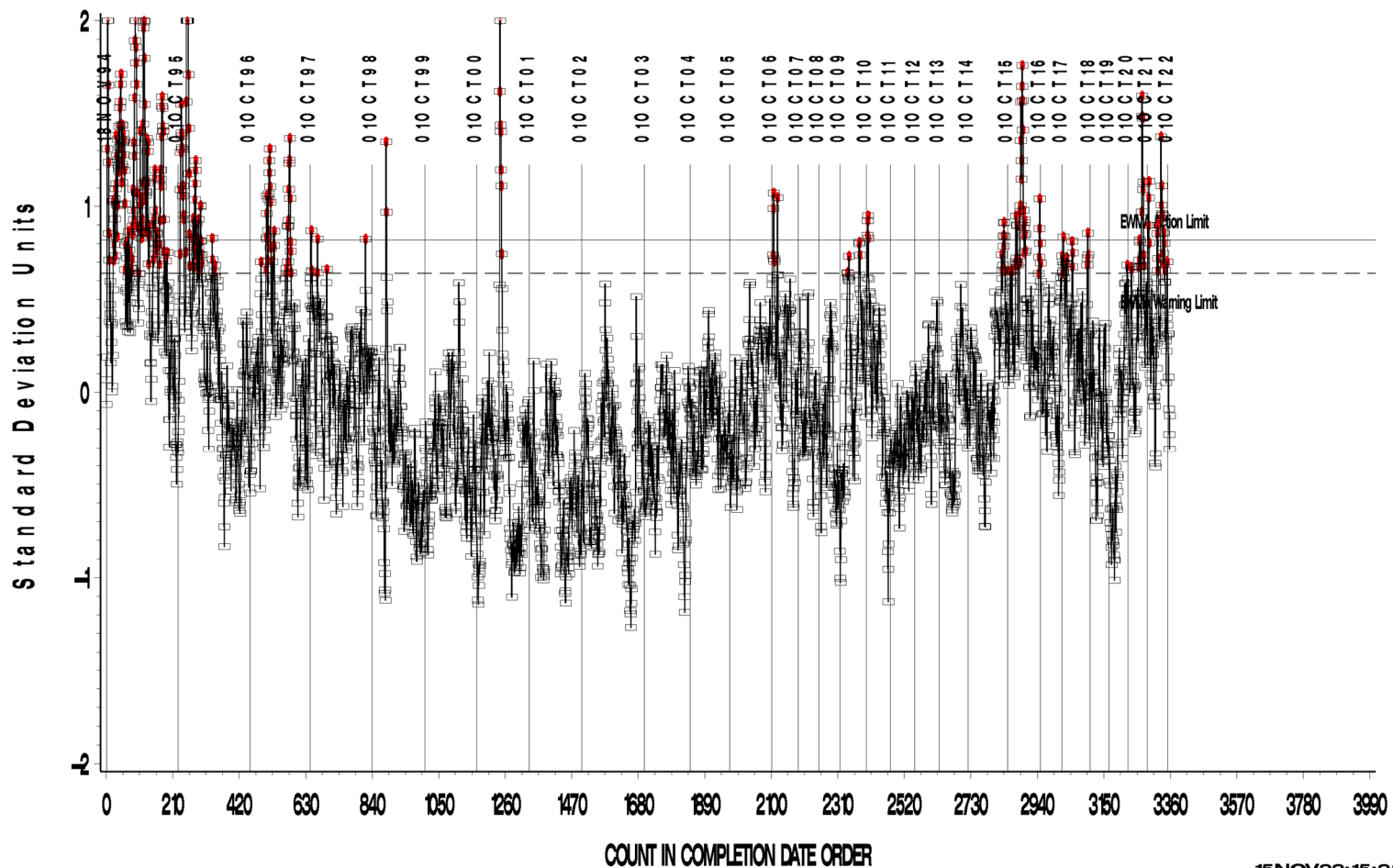
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LTVS Precision Analysis



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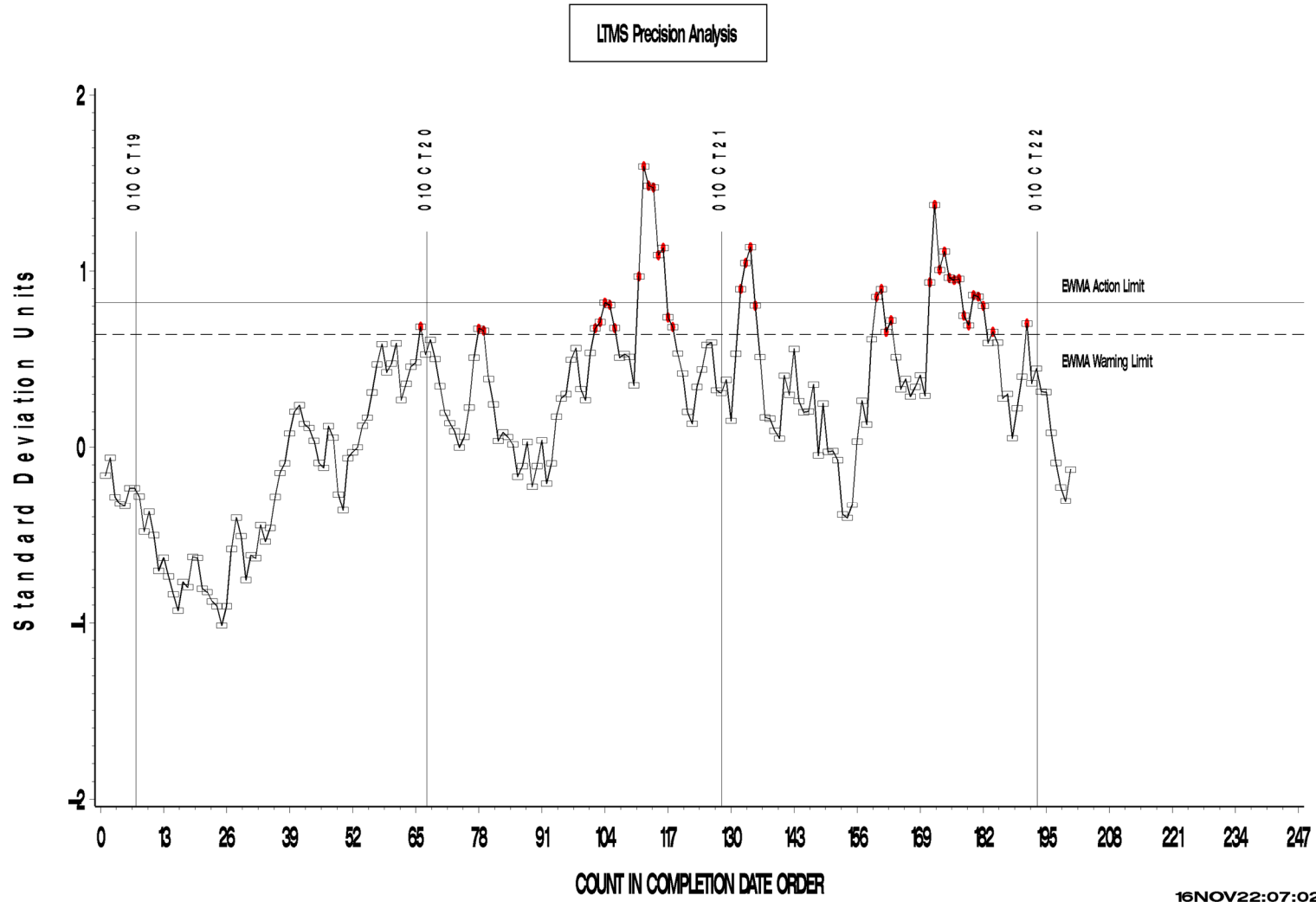
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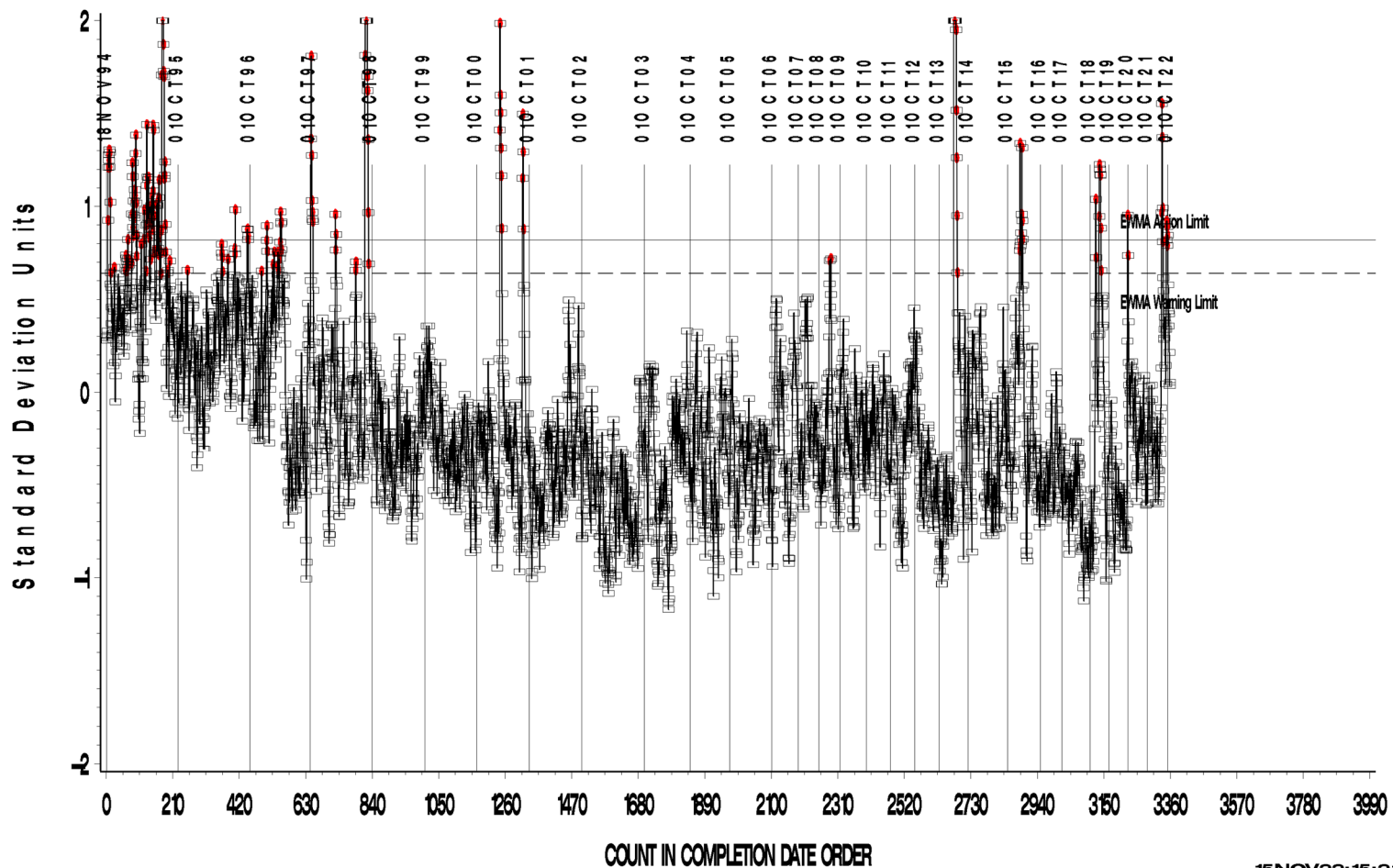
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LTVS Precision Analysis



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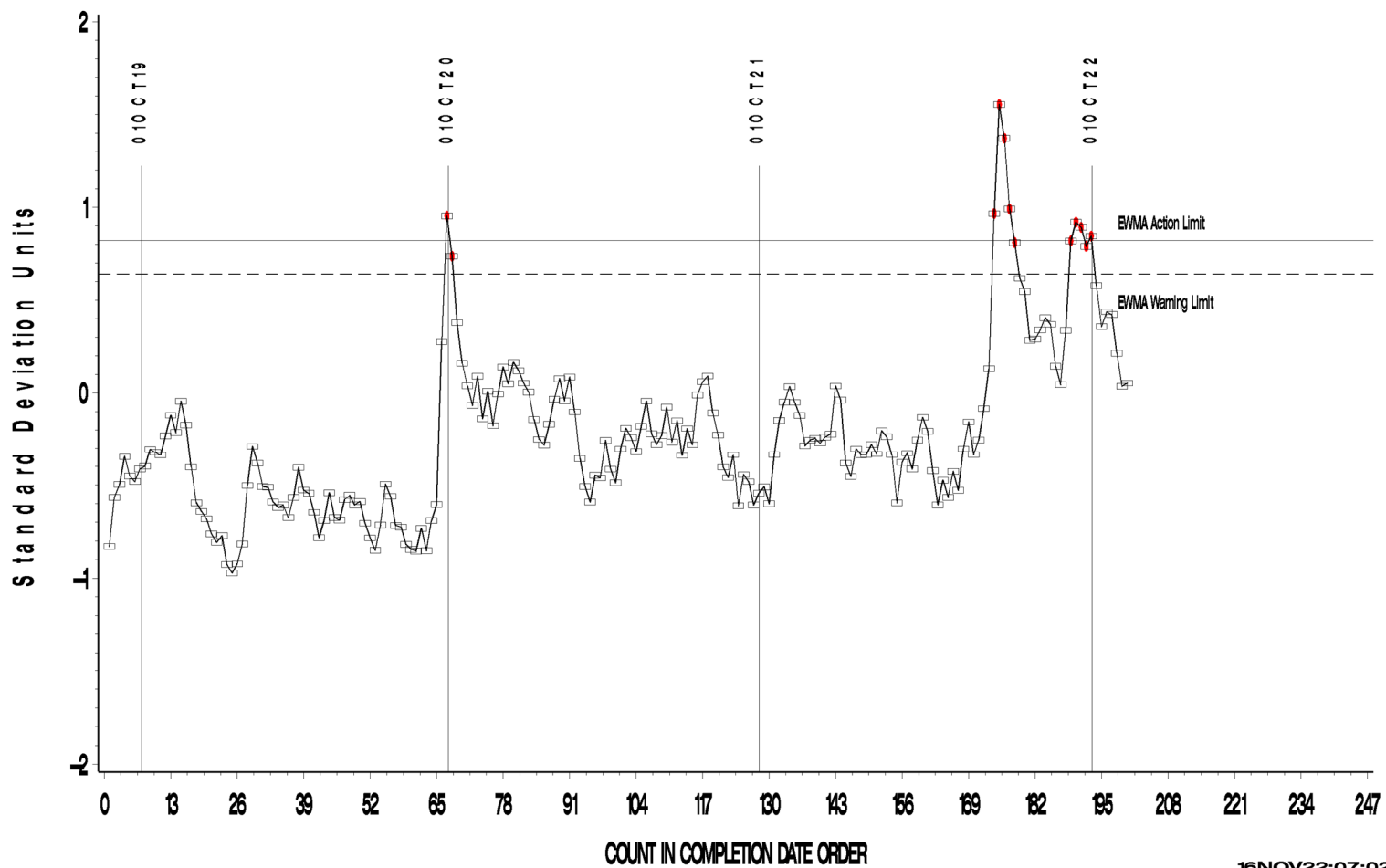
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LTMS Precision Analysis



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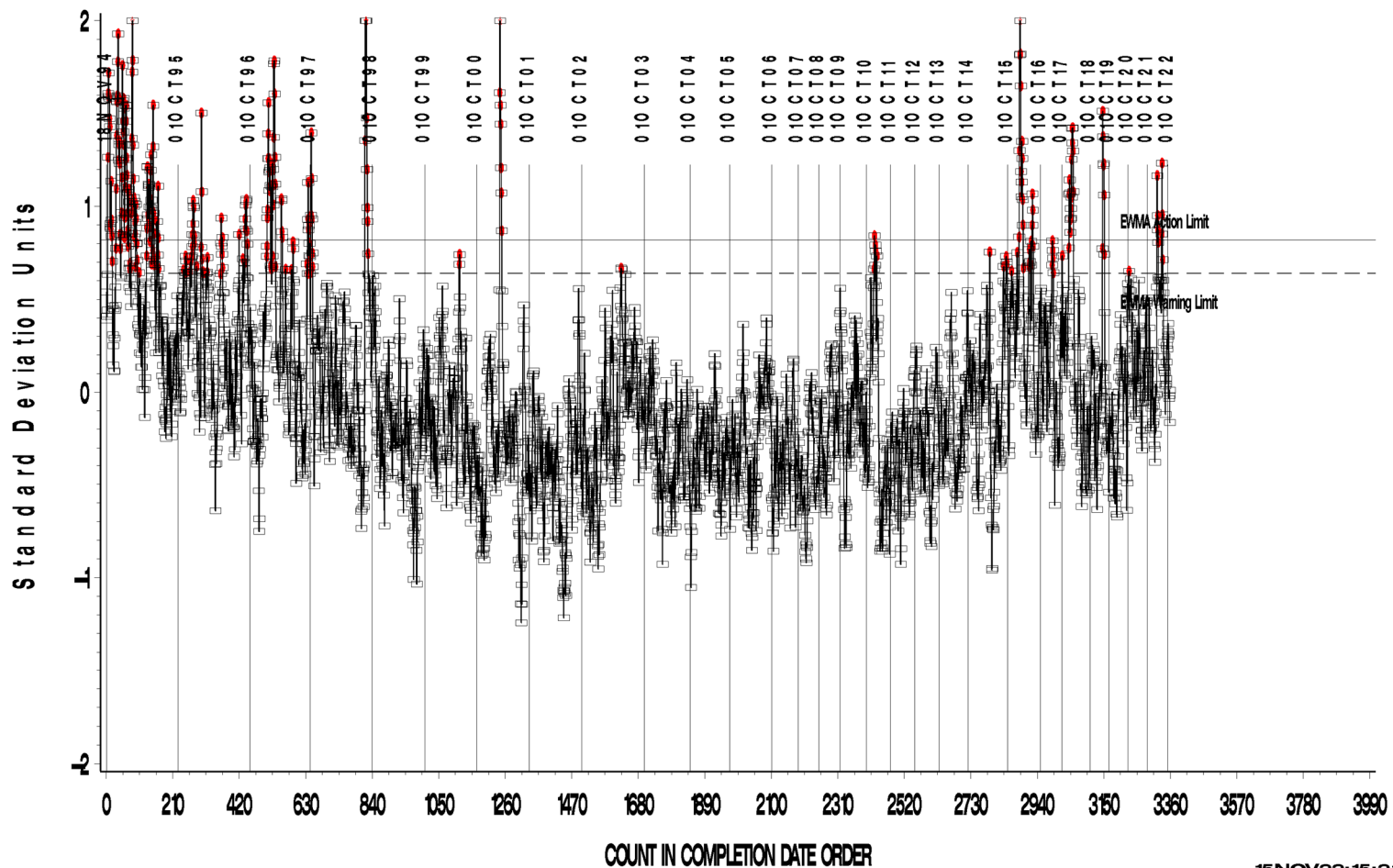
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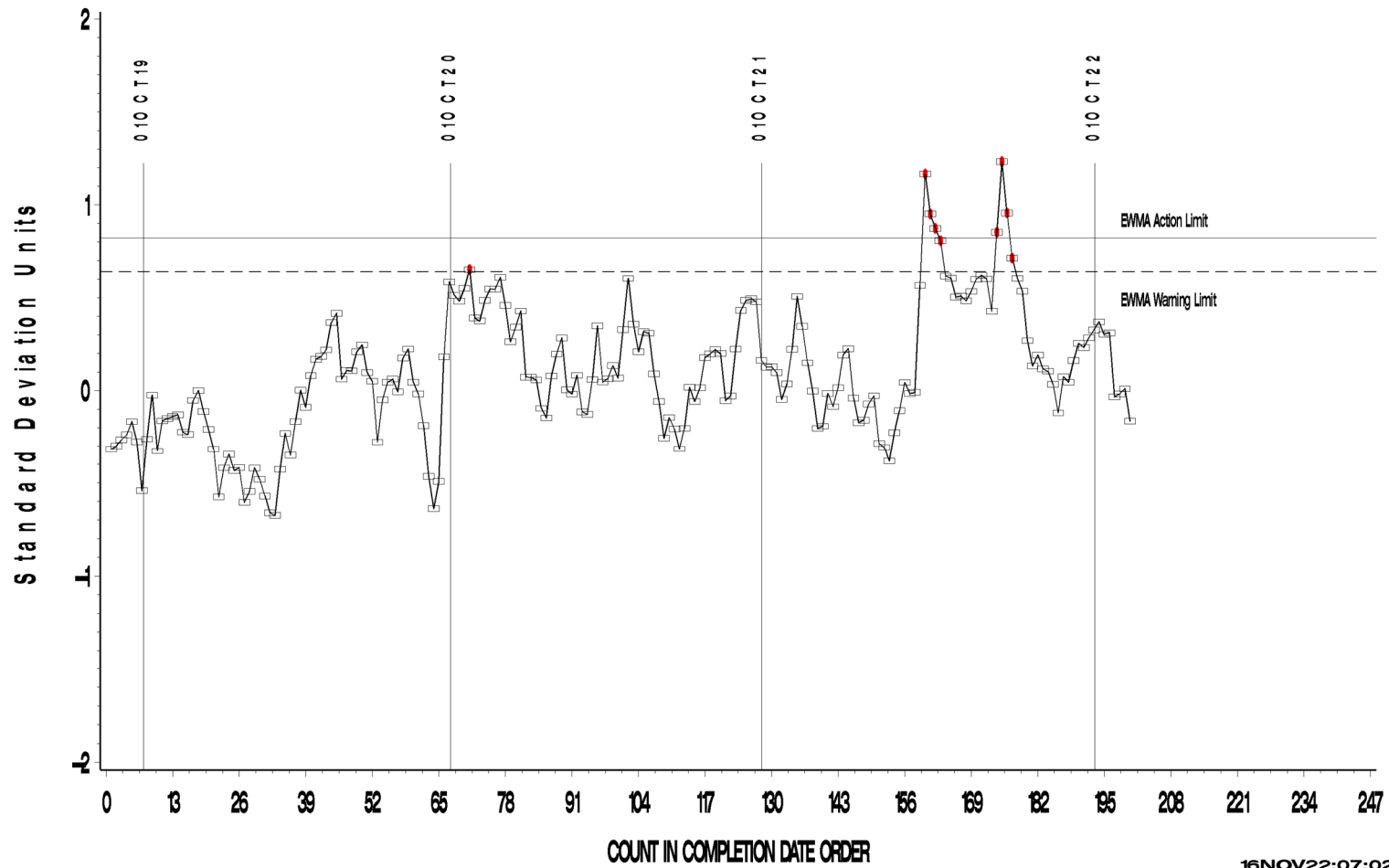
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LTMS Precision Analysis



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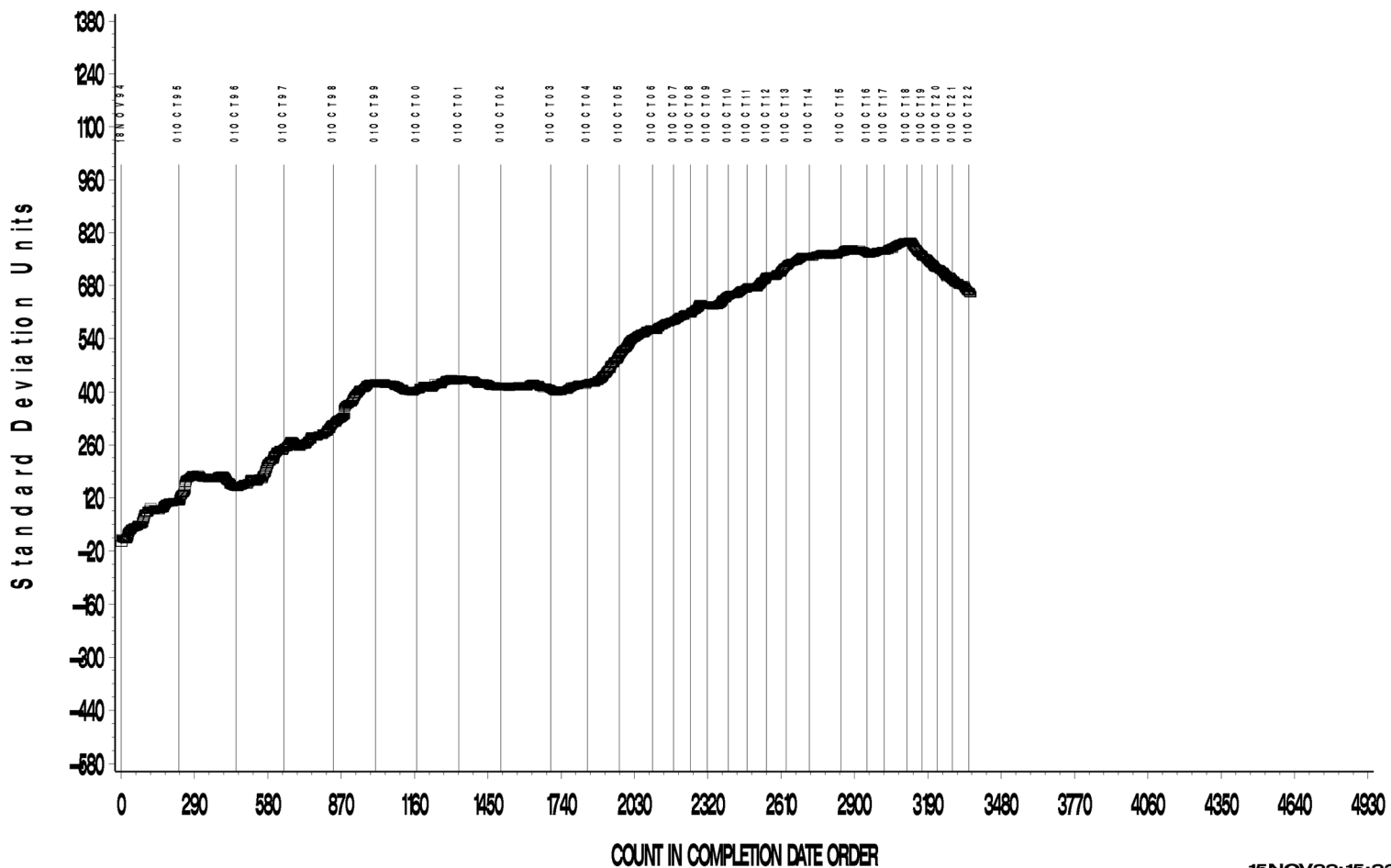
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CUSUM Severity Analysis



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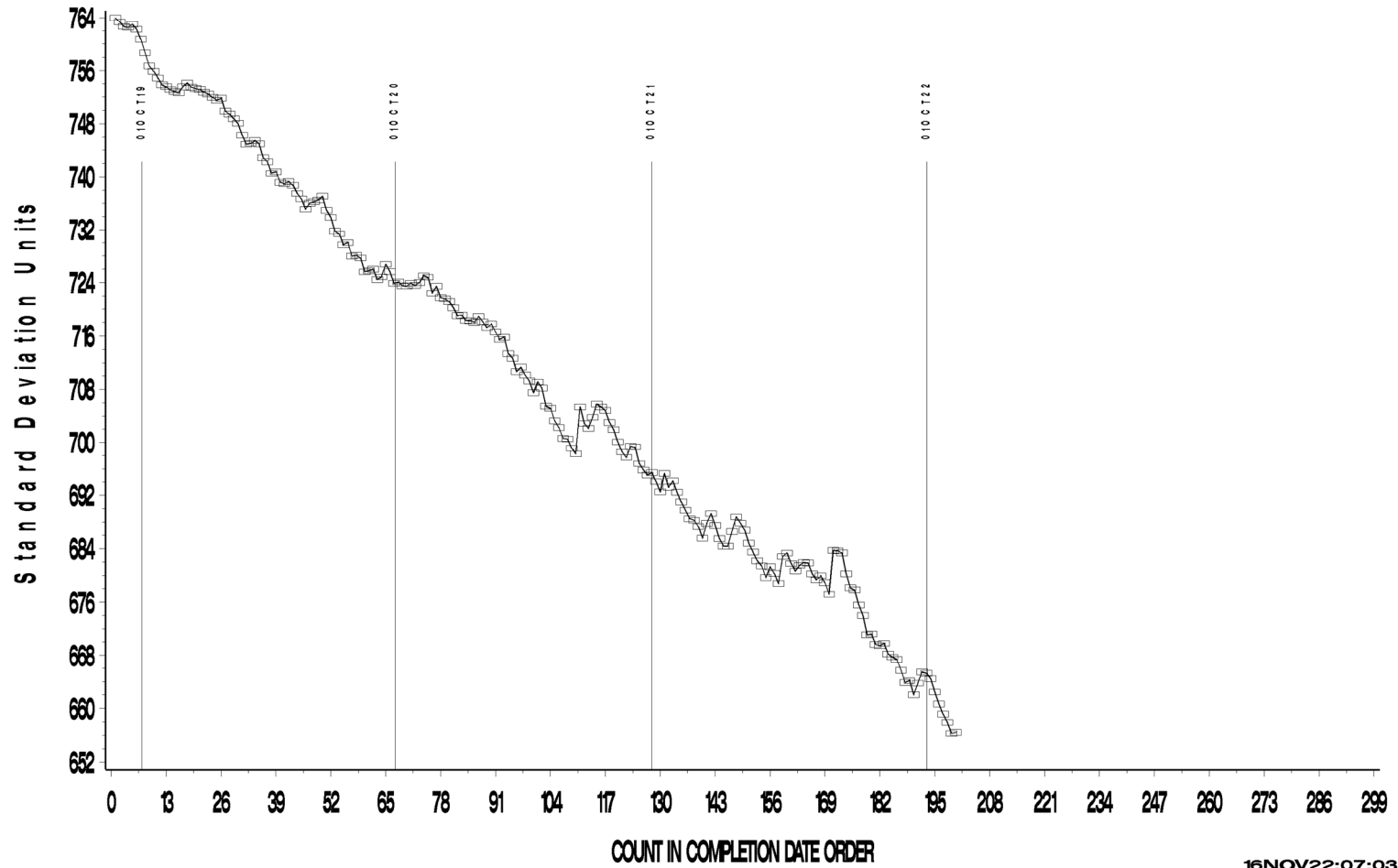
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CUSUM Severity Analysis



16NOV22:07:03



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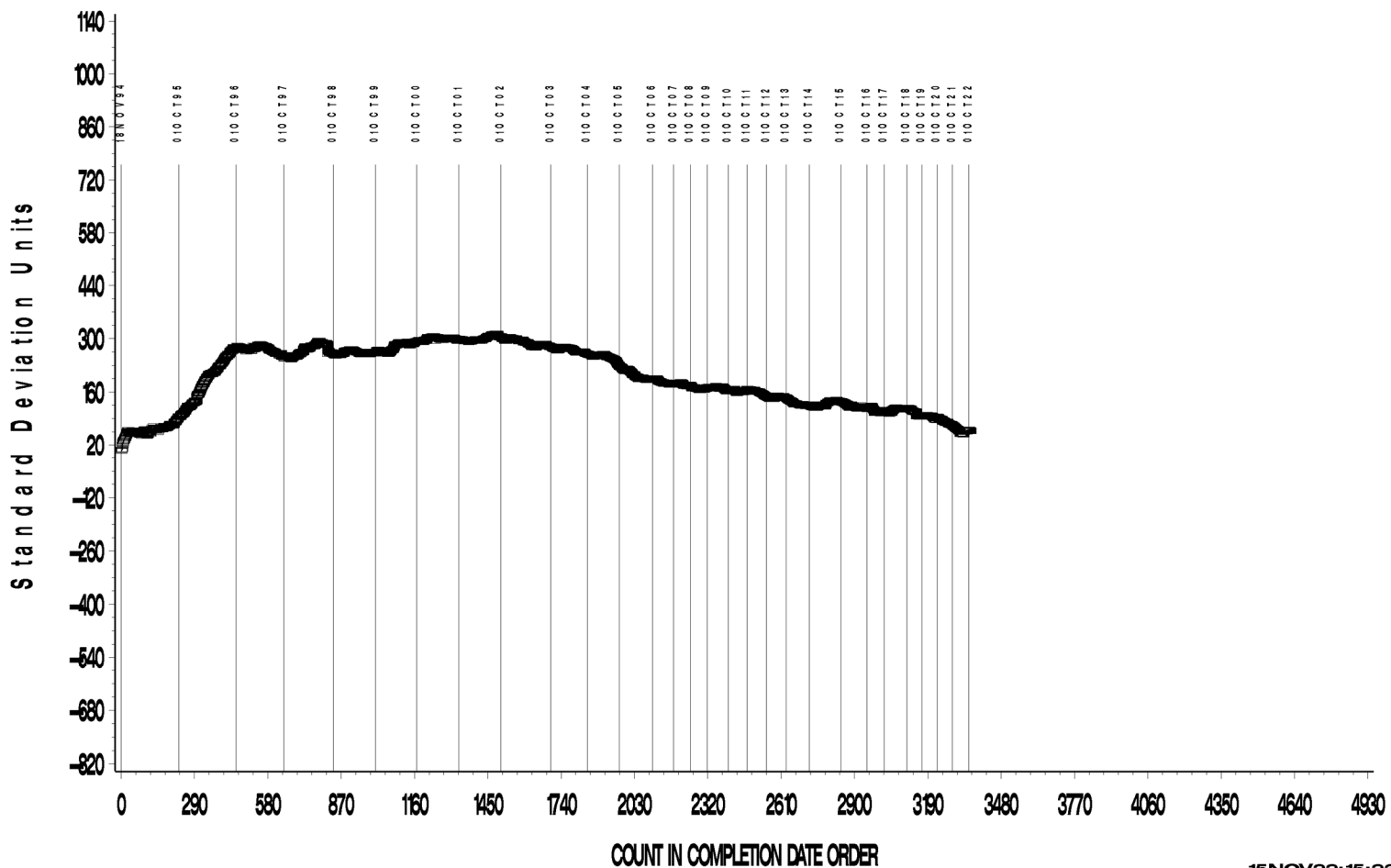
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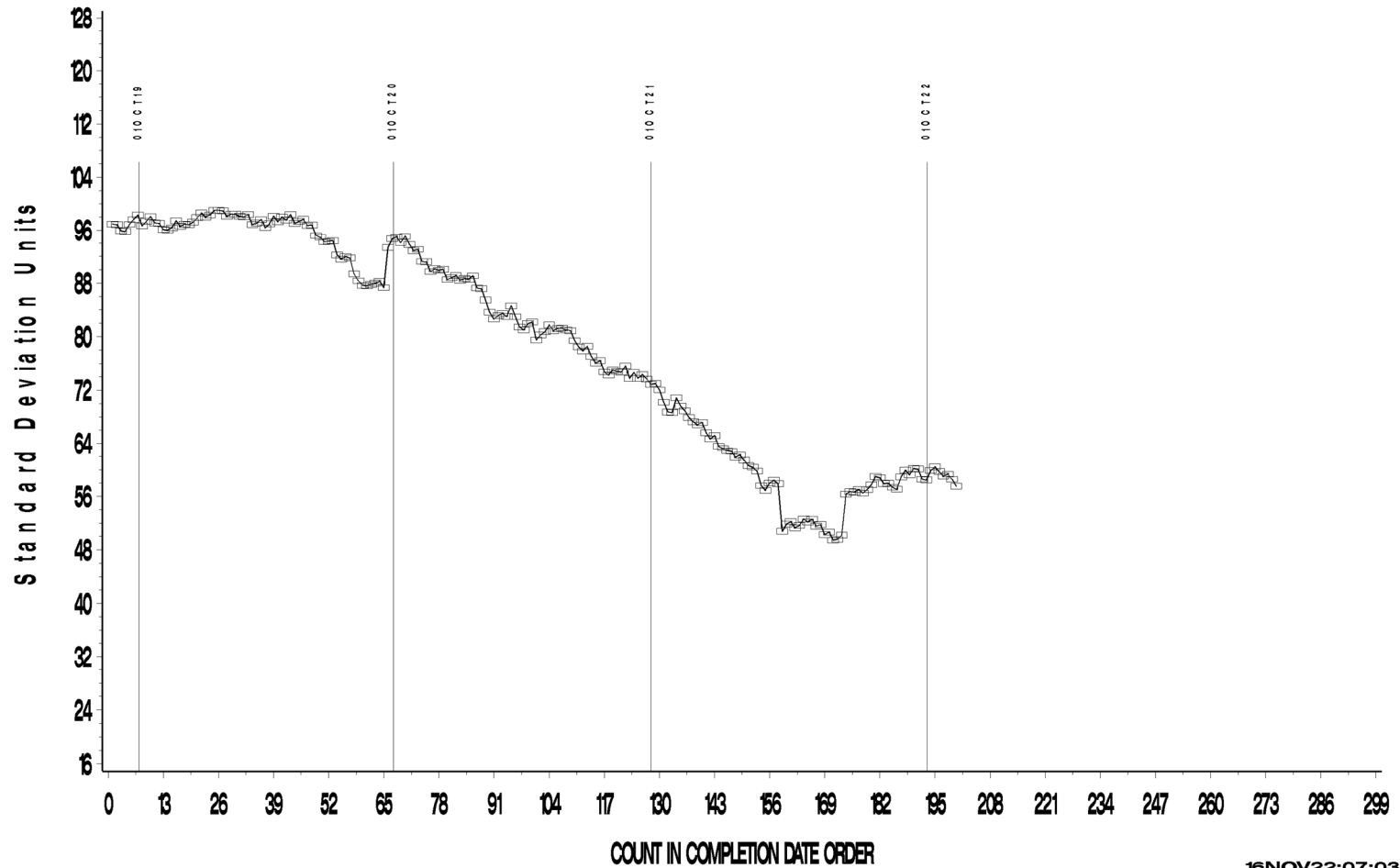
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CUSUM Severity Analysis



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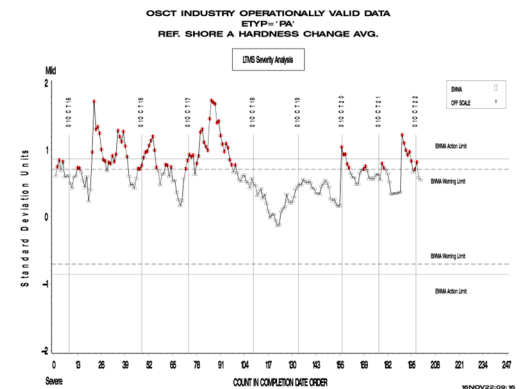
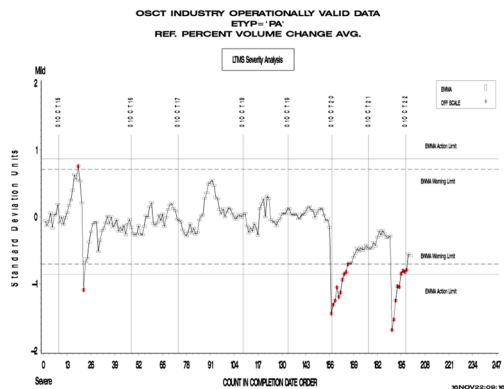
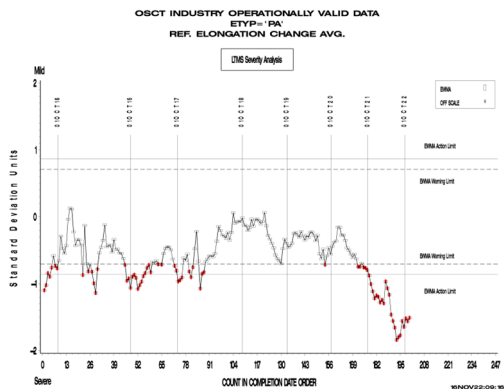
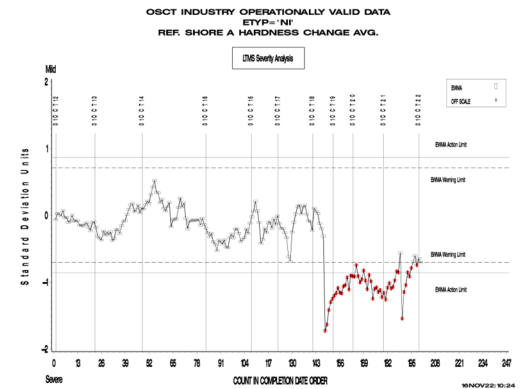
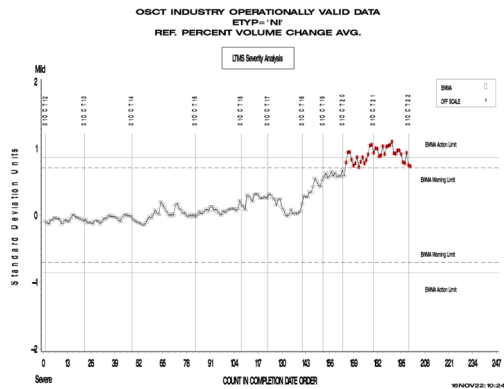
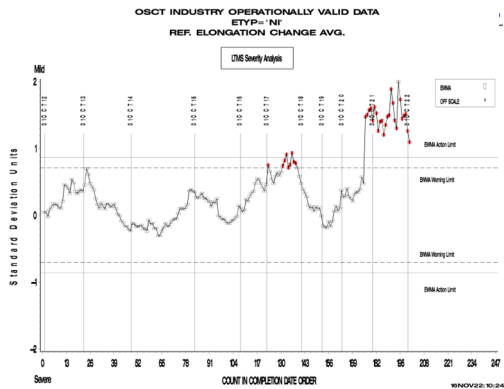
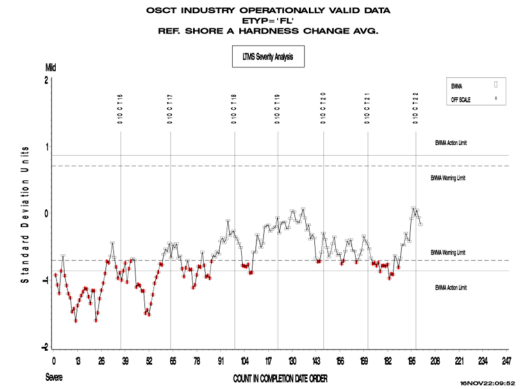
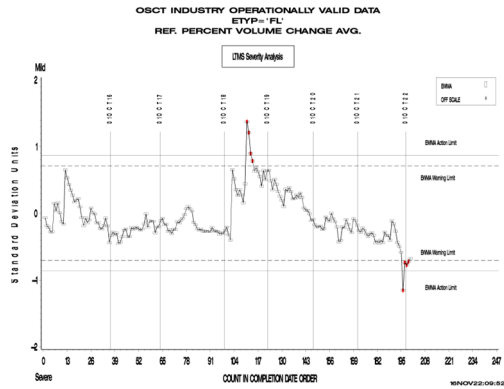
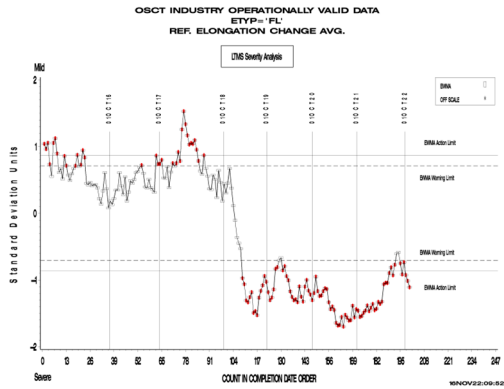
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TIMELINE ADDITIONS

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	
		Cans	Gallons
155-1	12	154	30.6
160-1	2	0	0.0
168	13	0	0.0
169	29	643	127.4
170	26	127	25.3
171	34	76	15.2
Total	116	1000	198.5

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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