



Test Monitoring Center

203 Armstrong Drive, Freeport, PA 16229, USA

www.astmtmc.org
412-365-1000

MEMORANDUM: 24-011
DATE: May 14, 2024
TO: Anthony Lange, Chairman, L-33-1 Surveillance Panel
FROM: Dylan Beck *Dylan Beck*
SUBJECT: L-33-1 Testing from October 1, 2023 through March 31, 2024

Attached is a summary of testing activity this period.

DJB/djb/mem24-011.djb.doc

cc: Jeff Clark

Sean Moyer

L-33-1 Surveillance Panel

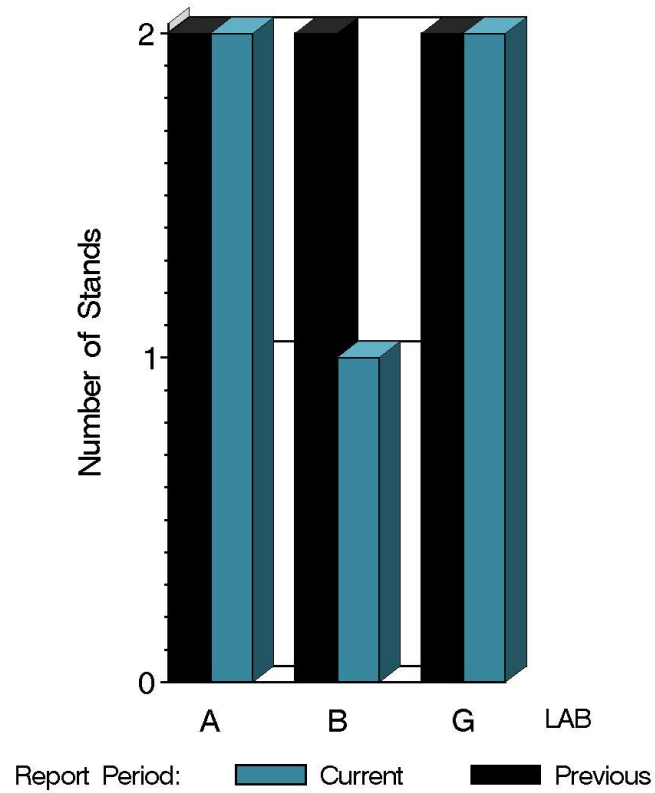
<https://www.astmtmc.org/ftp/docs/gear/1331/semiannualreports/L331-04-2024.pdf>

Distribution: email

L-33-1 (D7038)

	Reporting Data	Calibrated on 03-31-24
Number of Labs	3	3
Number of Stands	5	5

BY-LAB STAND
DISTRIBUTION



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Test Distribution by Oil and Validity

						Totals	
		123-2	126	155-1	155-2	Last Period	This Period
Accepted for calibration	AC	0	3	0	3	8	6
Rejected (Mild)	OC	0	0	0	2	0	2
Rejected (Severe)	OC	0	0	0	0	0	0
Rejected (Precision)	OC	0	0	0	2	0	2
Invalidated calibration	LC	0	0	0	0	1	0
Aborted	XC	0	0	0	0	0	0
Invalid cal, reported valid	RC	0	0	0	0	0	0
Accepted information run	NI	0	0	0	0	0	0
Total		0	3	0	7	9	10



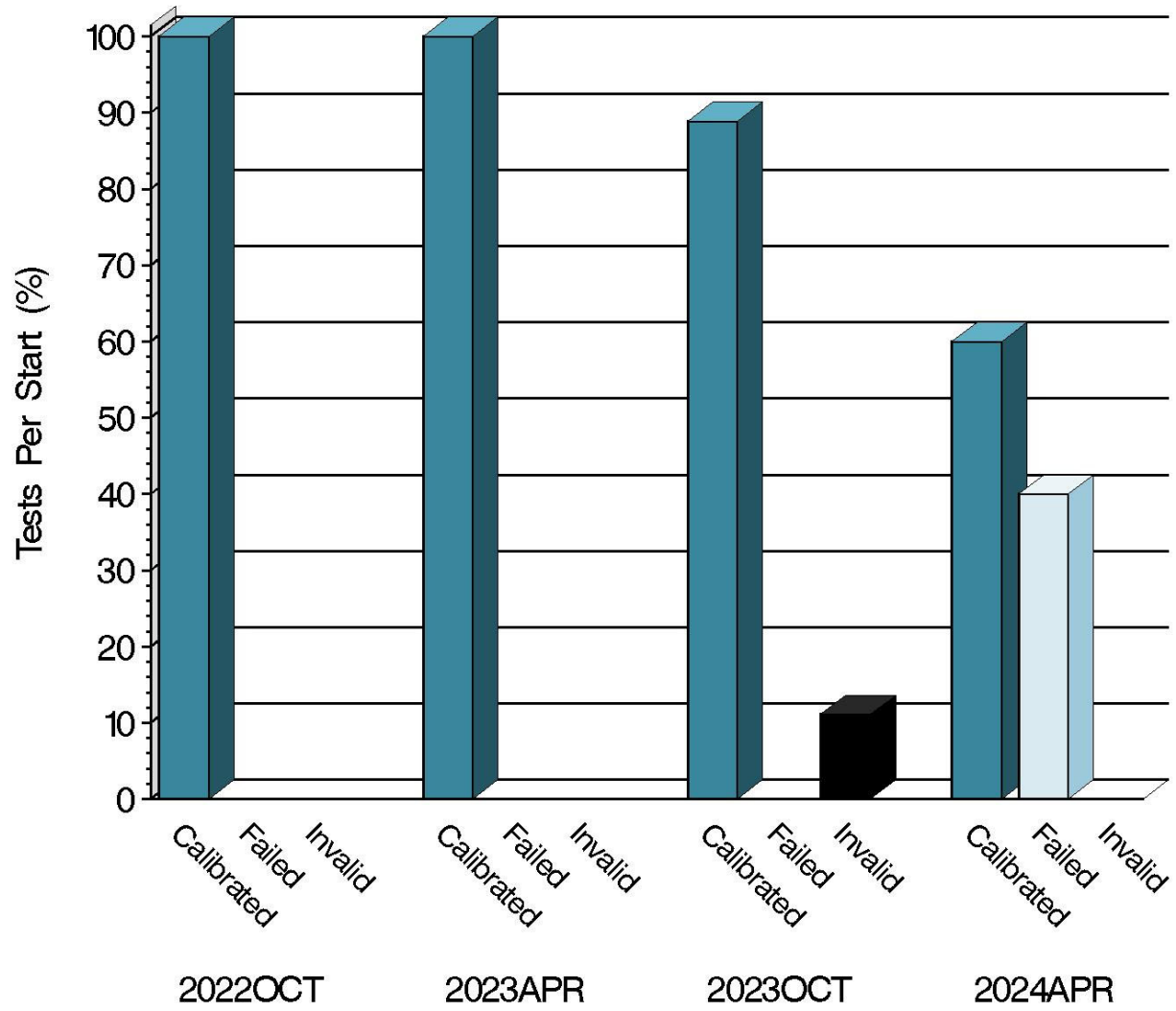
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CALIBRATION ATTEMPT SUMMARY



Resolution

Report Period

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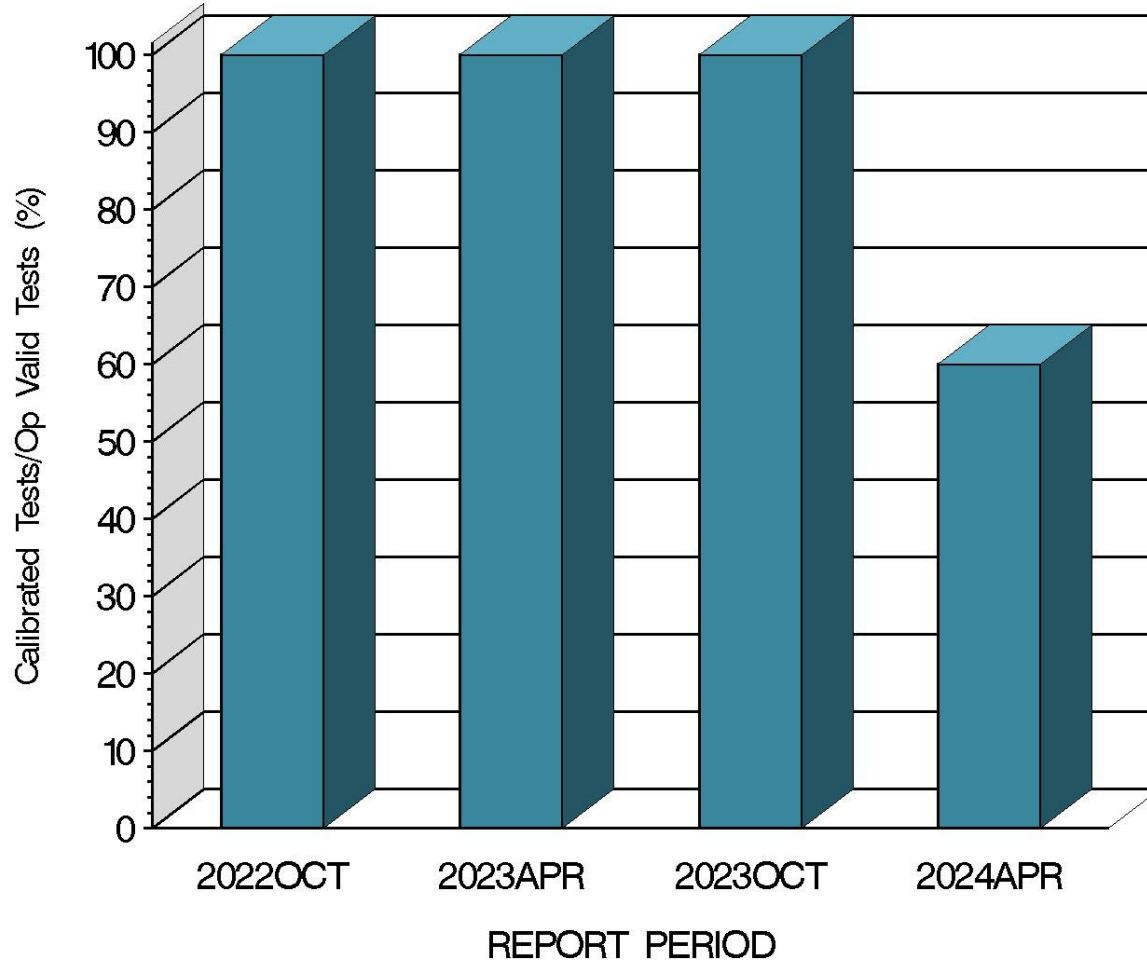
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OPERATIONALLY VALID TESTS
MEETING ACCEPTANCE CRITERIA



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CAUSES FOR LOST TESTS

Lab	Cause	Oil			Validity			Loss Rate		
		123-2	155-1	155-2	RC	LC	XC	Lost	Starts	%
	No lost test during this reporting period.									
	Lost	0	0	0	0	0	0			
	Starts	0	0	0	0	0	0			
	%	0%	0%	0%	0%	0%	0%			



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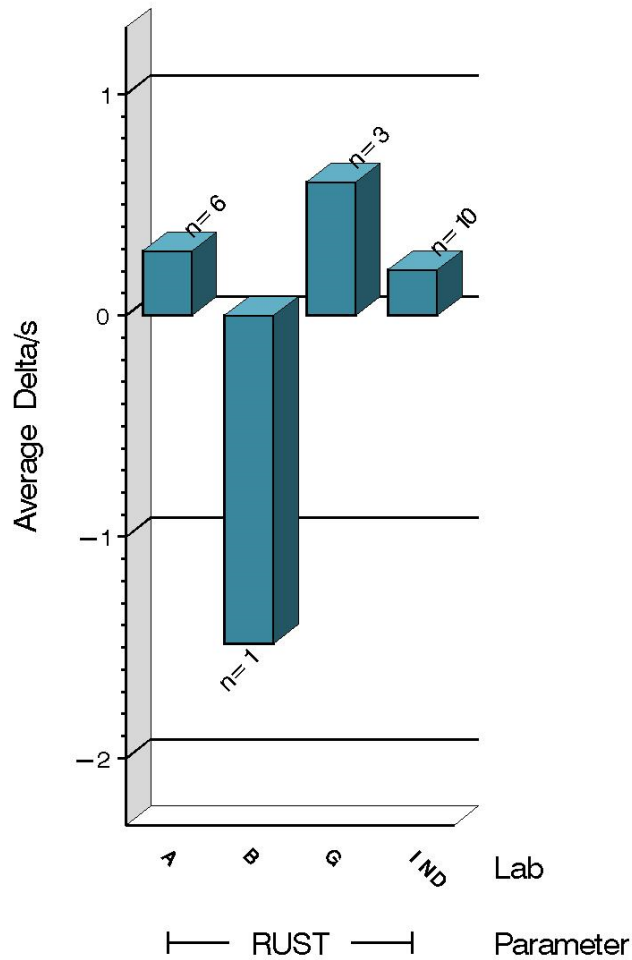
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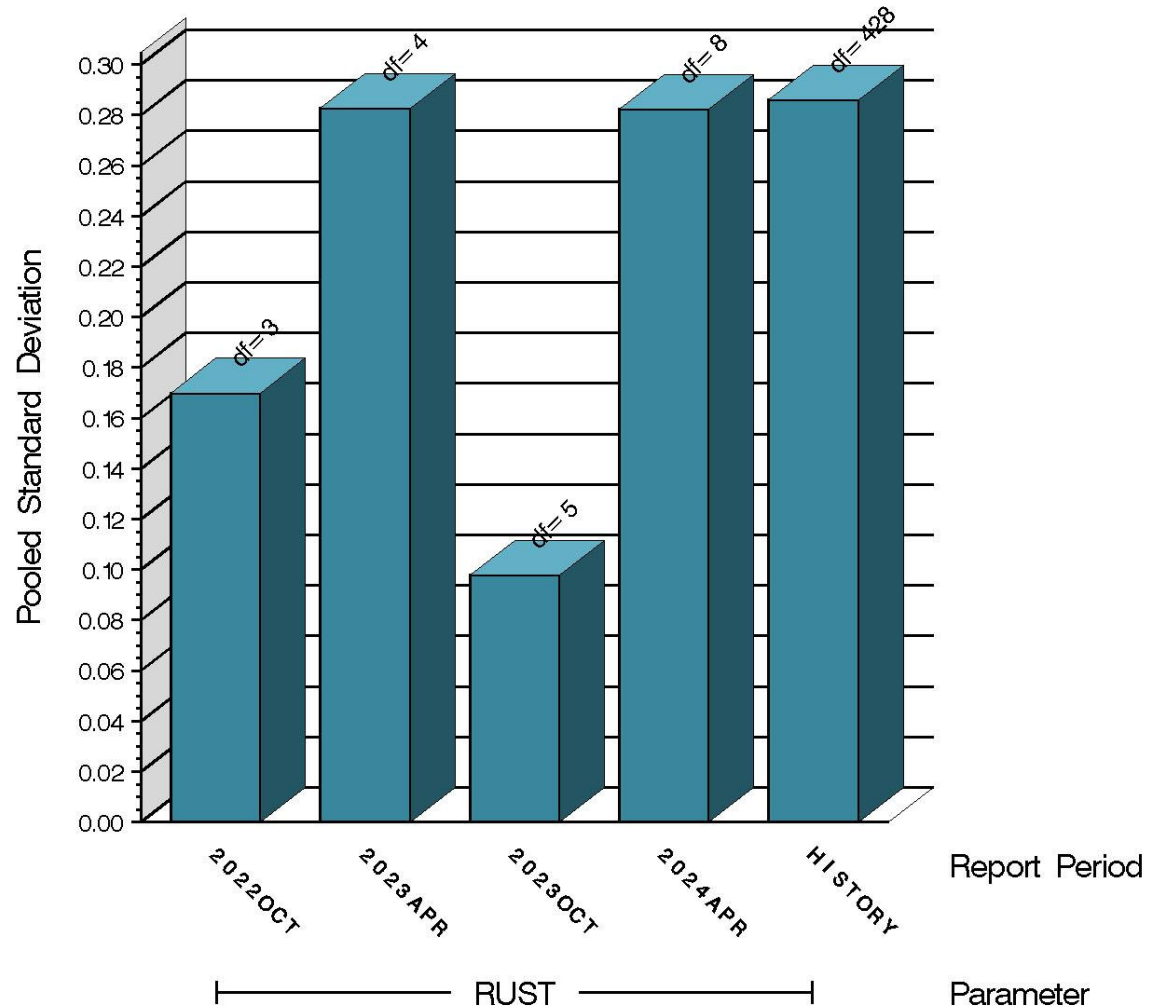
TEST SEVERITY
DELTA/S BY LAB



Average Δ/s by Lab			
Lab	N	RUST	Trend
A	6	0.392	Trending Mild
B	1	-1.481	Trending Severe
G	3	0.603	Trending Mild
Industry	10	0.208	Trending Mild
Shift	10	0.052 merits	

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TEST PRECISION
POOLED STANDARD DEVIATION
BY SIX-MONTH ASTM REPORT PERIOD



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SUMMARY OF SEVERITY & PRECISION

Severity

The action limit was exceeded in the mild direction with two tests during this reporting period. The period ended within the limits.

Precision

The precision action limit was not exceeded during this period.

Industry control charts follow.



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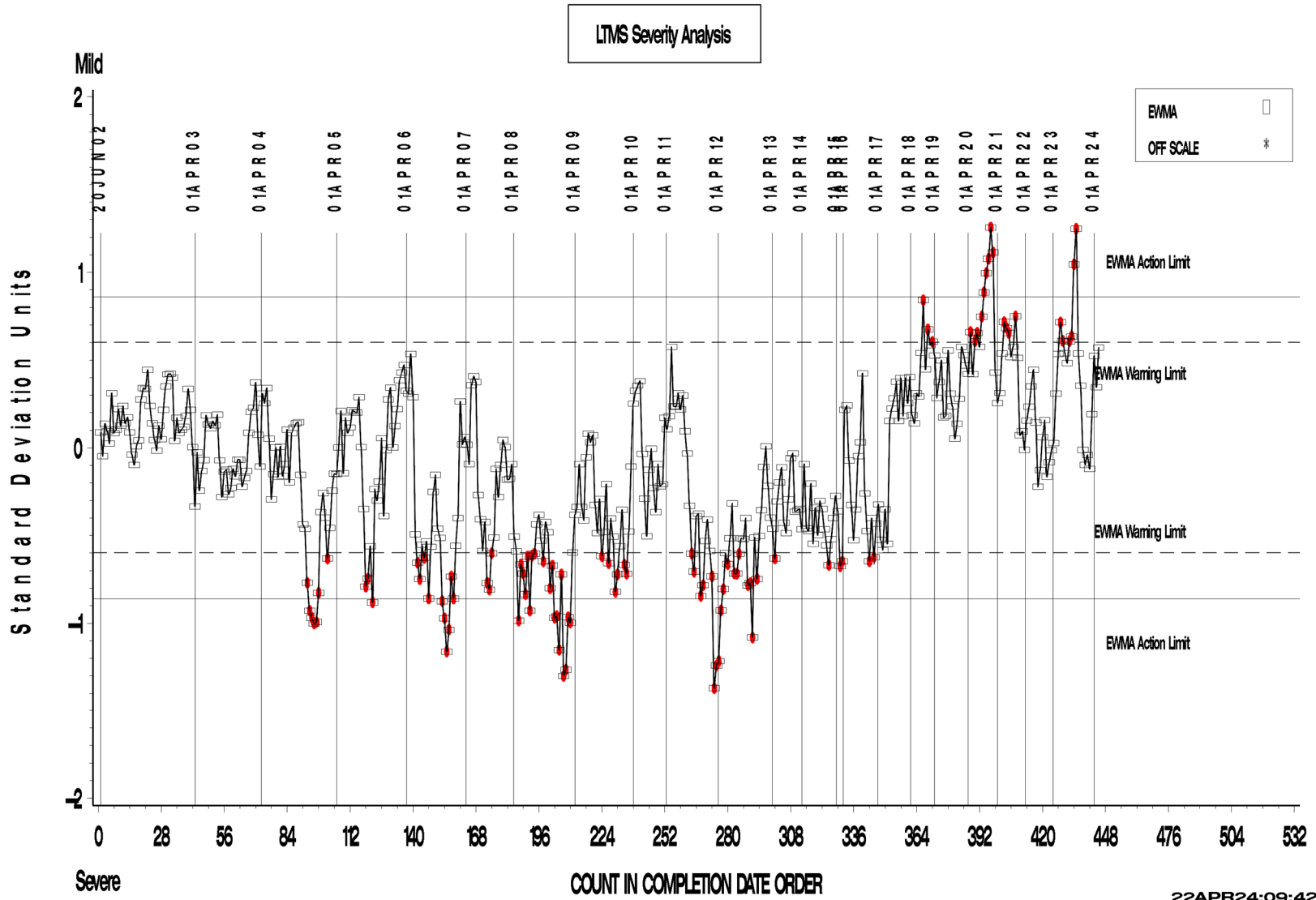
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L-33-1 INDUSTRY OPERATIONALLY VALID DATA

FINAL RUST RESULT



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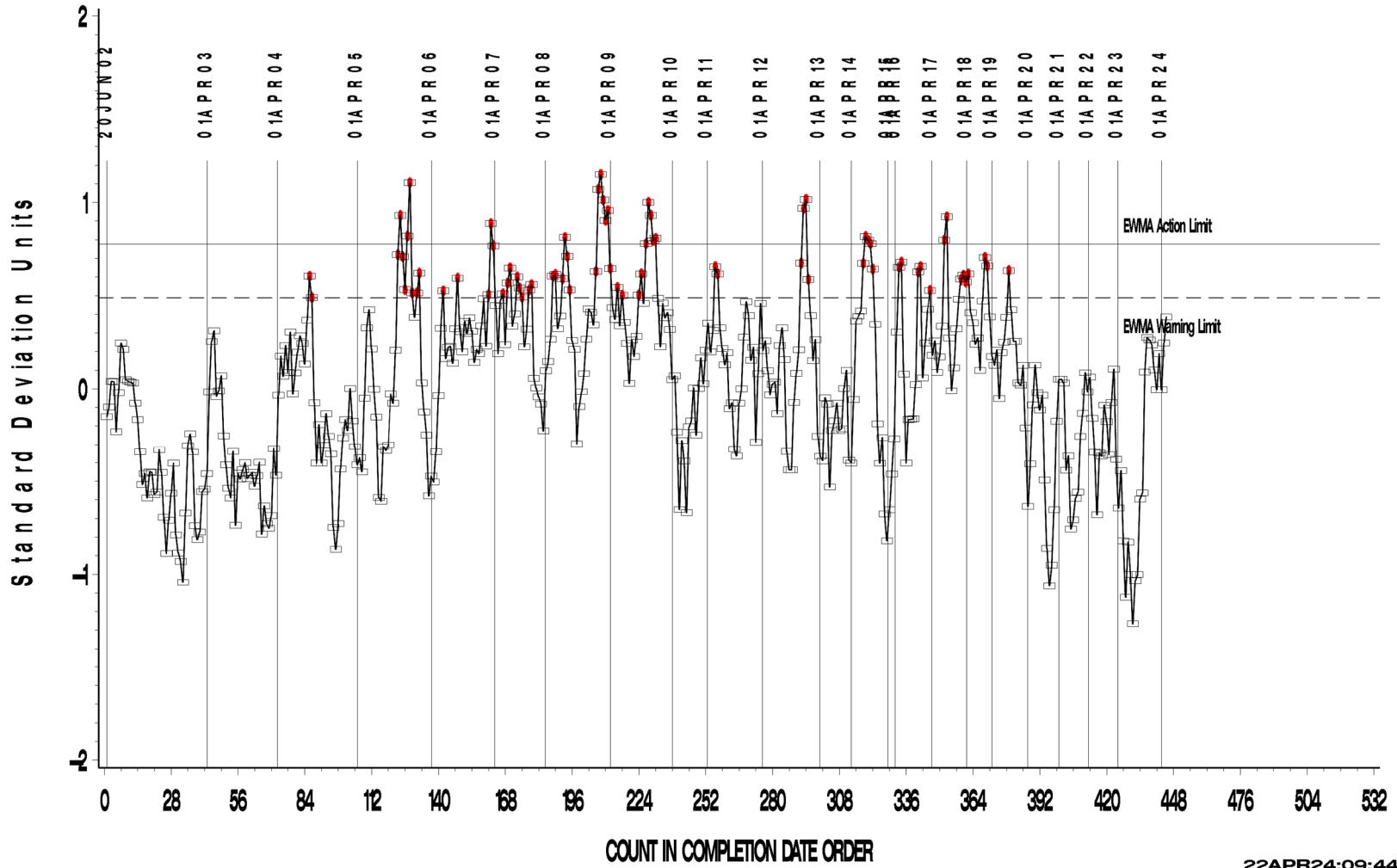
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L-33-1 INDUSTRY OPERATIONALLY VALID DATA

FINAL RUST RESULT

LTMS Precision Analysis



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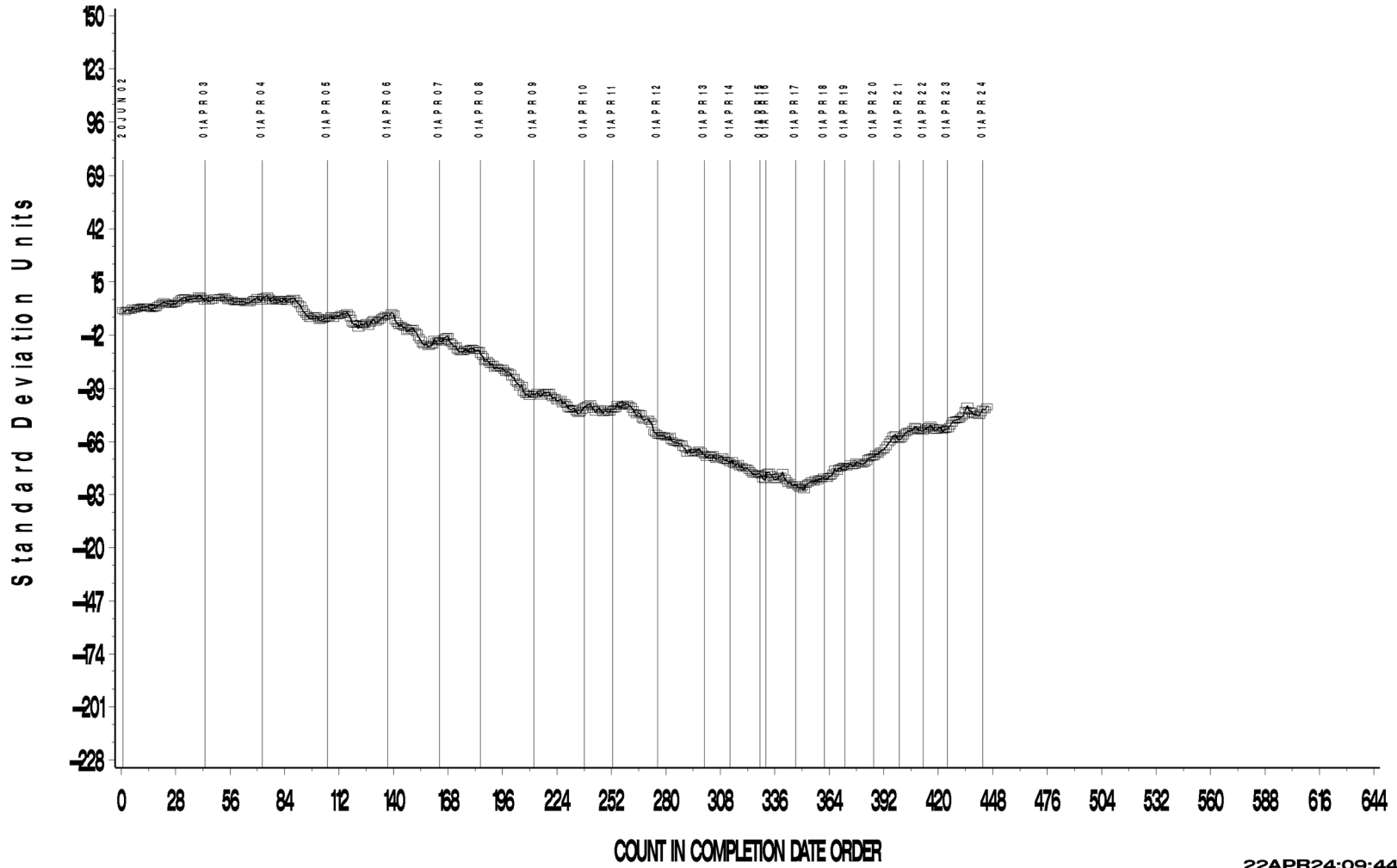
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L-33-1 INDUSTRY OPERATIONALLY VALID DATA

FINAL RUST RESULT

CUSUM Severity Analysis



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TIMELINE ADDITIONS

Effective Date	Information Letter	Event
02/07/2024	24-1	Editorial change to eliminate the use of fractions in the test method.



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LAB VISITS

One L-33-1 lab visit was conducted during this reporting period. No conflicts with the test procedure were observed during this visit.

INFORMATION LETTERS

Information letters 24-1 was issued during this reporting period. See the previous page on timeline additions for more details on this information letter.



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STATUS OF REFERENCE OIL SUPPLY

Oil	Tests	Year	Blend Quantit	TMC Inventor	Estimated Life	Comment
126	L-33-1	2022	105	75	7 years	
155-1	L-33-1, L-37-1, L-60-1, HTCT, OSCT	2010	495	27.14	1.5 years	
155-2	L-33-1, L-37-1, L-60-1, HTCT, OSCT	2020	265	208	6 years	

Oil 155-1/155-2 is also used in other test areas (L-37, L-37-1, L-60-1, and HTCT). 155-2 is a replacement oil for 155-1 that was approved by the surveillance panel for L-33-1 test use on August 25th, 2021.



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