



Test Monitoring Center

203 Armstrong Drive, Freeport, PA 16229, USA

www.astmtmc.org
412-365-1000

MEMORANDUM: 23-012
DATE: April 25, 2023
TO: Anthony Lange, Chairman, L-33-1 Surveillance Panel
FROM: Dylan Beck *Dylan Beck*
SUBJECT: L-33-1 Testing from October 1, 2022 through March 31, 2023

Attached is a summary of testing activity this period.

DJB/djb/mem23-012.djb.doc

cc: Jeff Clark

Sean Moyer

L-33-1 Surveillance Panel

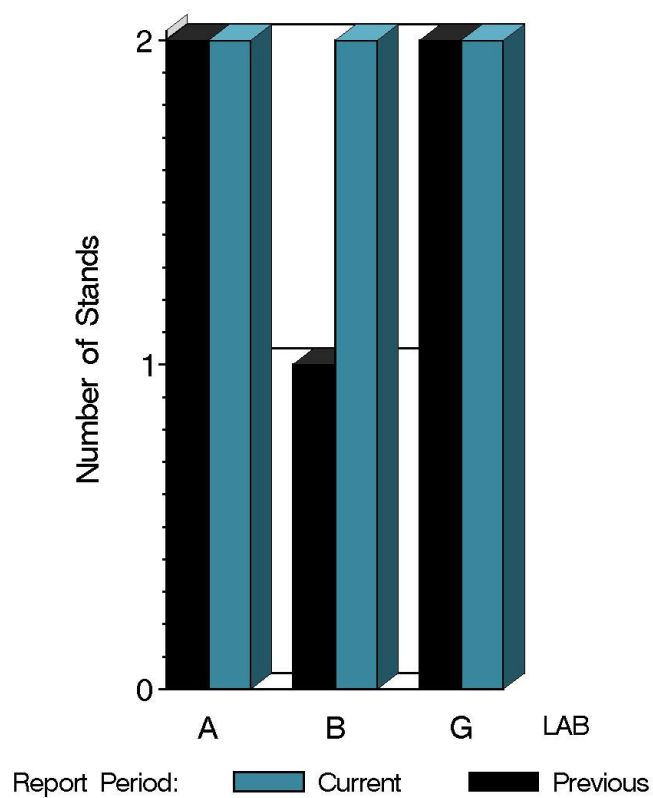
<https://www.astmtmc.org/ftp/docs/gear/l331/semiannualreports/L331-04-2023.pdf>

Distribution: email

L-33-1 (D7038)

	Reporting Data	Calibrated on 03-31-23
Number of Labs	3	3
Number of Stands	6	6

BY-LAB STAND
DISTRIBUTION



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Test Distribution by Oil and Validity

					Totals	
					Last Period	This Period
		123-2	126	155-1		
Accepted for calibration	AC	5	0	1	6	6
Rejected (Mild)	OC	0	0	0	0	0
Rejected (Severe)	OC	0	0	0	0	0
Rejected (Precision)	OC	0	0	0	0	0
Invalidated calibration	LC	0	0	0	0	0
Aborted	XC	0	0	0	0	0
Invalid cal, reported valid	RC	0	0	0	0	0
Accepted information run	NI	0	6	0	0	6
Total		5	6	1	6	12



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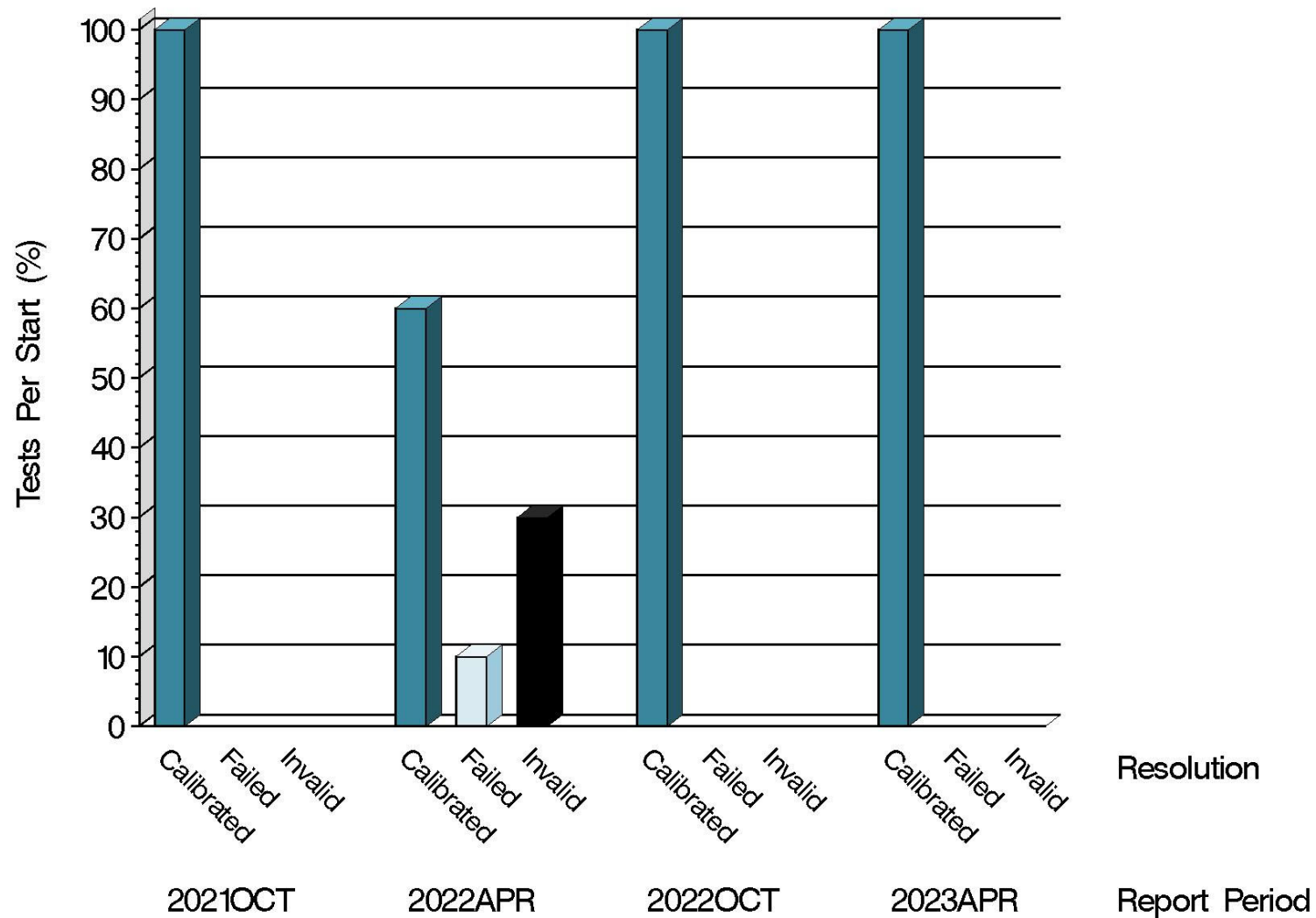
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CALIBRATION ATTEMPT SUMMARY



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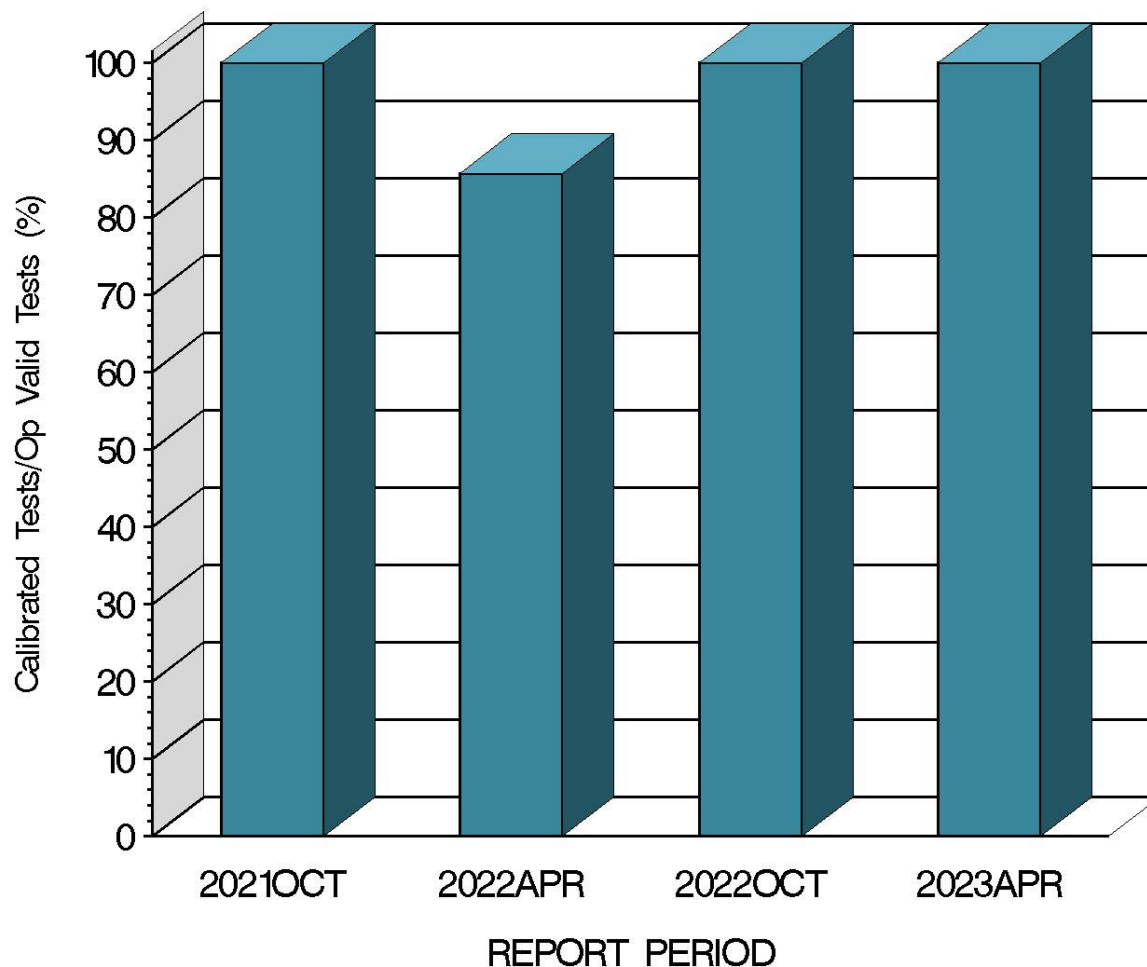
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OPERATIONALLY VALID TESTS
MEETING ACCEPTANCE CRITERIA



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CAUSES FOR LOST TESTS

Lab	Cause	Oil			Validity			Loss Rate		
		123-2	126	155-1	RC	LC	XC	Lost	Starts	%
	No lost tests during this reporting period.							0	12	0%
	Lost	0	0	0	0	0	0			
	Starts	5	6	1	12	12	12			
	%	0%	0%	0%	0%	0%	0%			



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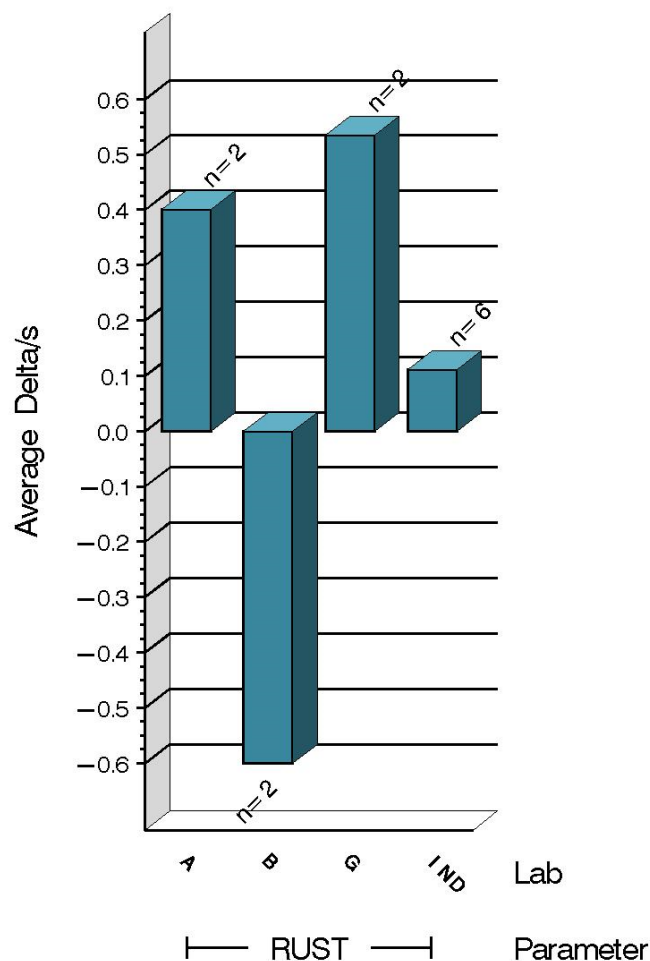
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TEST SEVERITY
DELTA/S BY LAB



Average Δ/s by Lab			
Lab	N	RUST	Trend
A	2	0.400	On Target
B	2	-0.600	Trending Mild
G	2	0.535	Trending Severe
Industry	6	0.112	On Target
Shift	6	0.028 merits	



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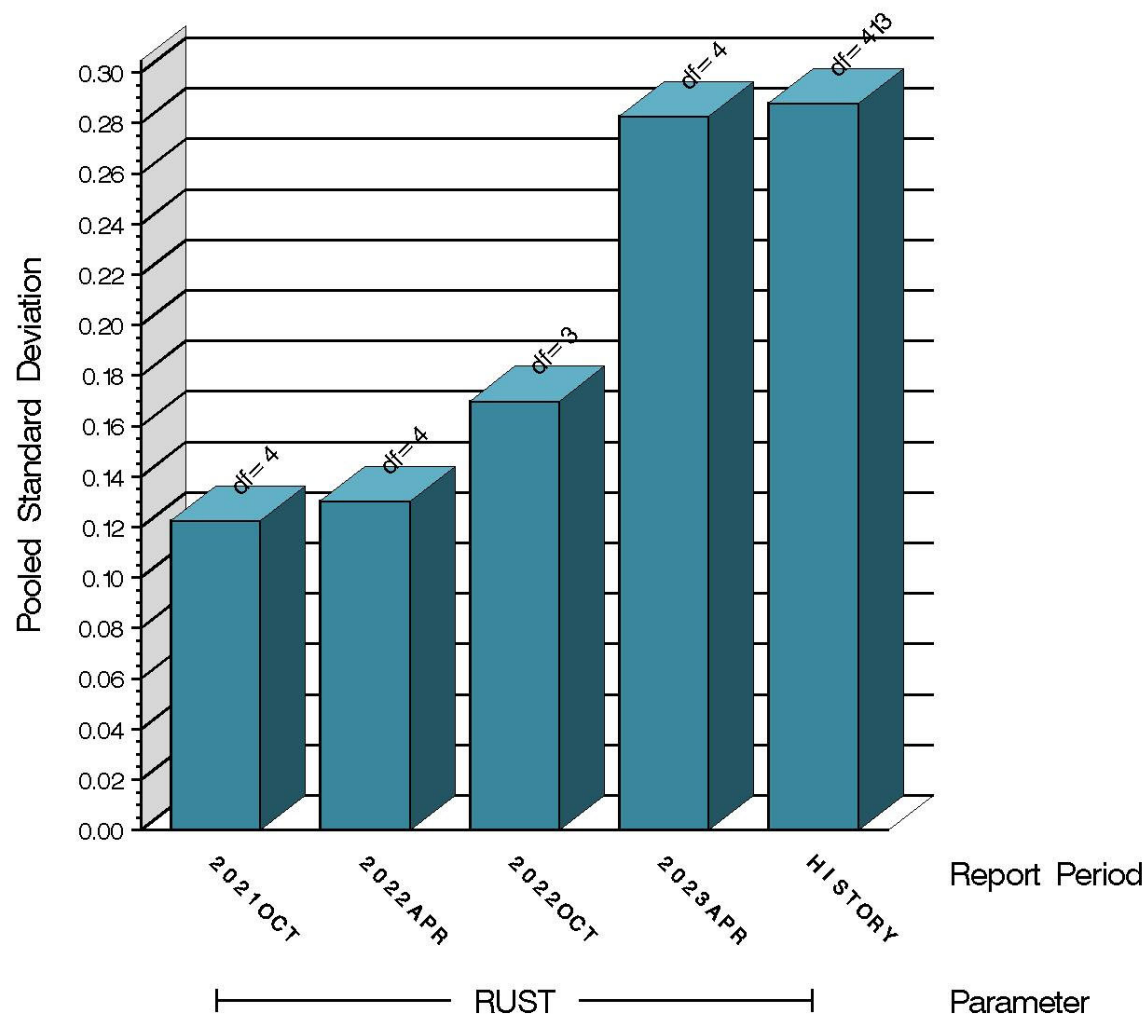
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TEST PRECISION
POOLED STANDARD DEVIATION
BY SIX-MONTH ASTM REPORT PERIOD



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SUMMARY OF SEVERITY & PRECISION

Severity
The severity action limit was not exceeded during this period.
Precision
The precision action limit was not exceeded during this period.

Industry control charts follow.



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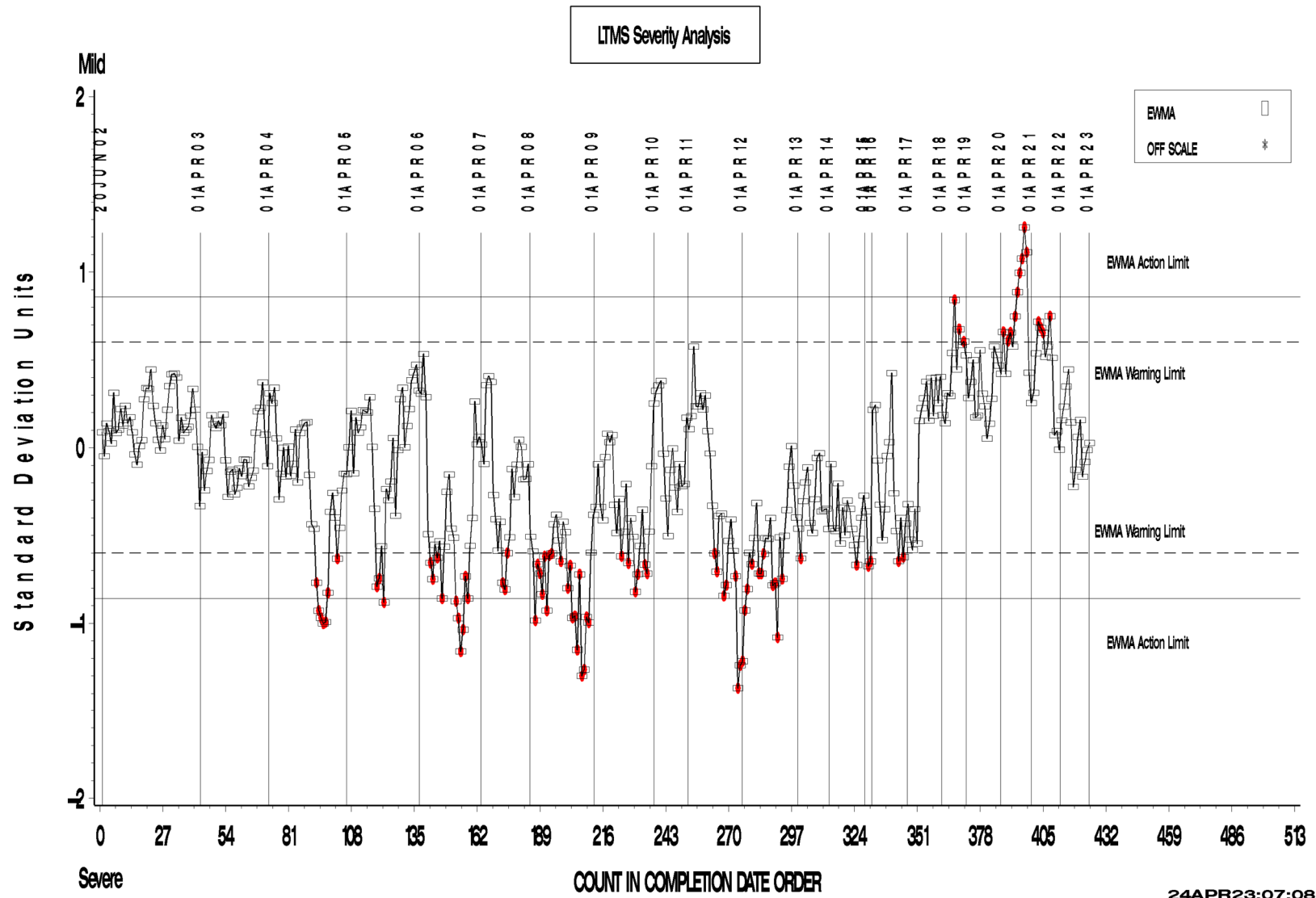
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L-33-1 INDUSTRY OPERATIONALLY VALID DATA

FINAL RUST RESULT



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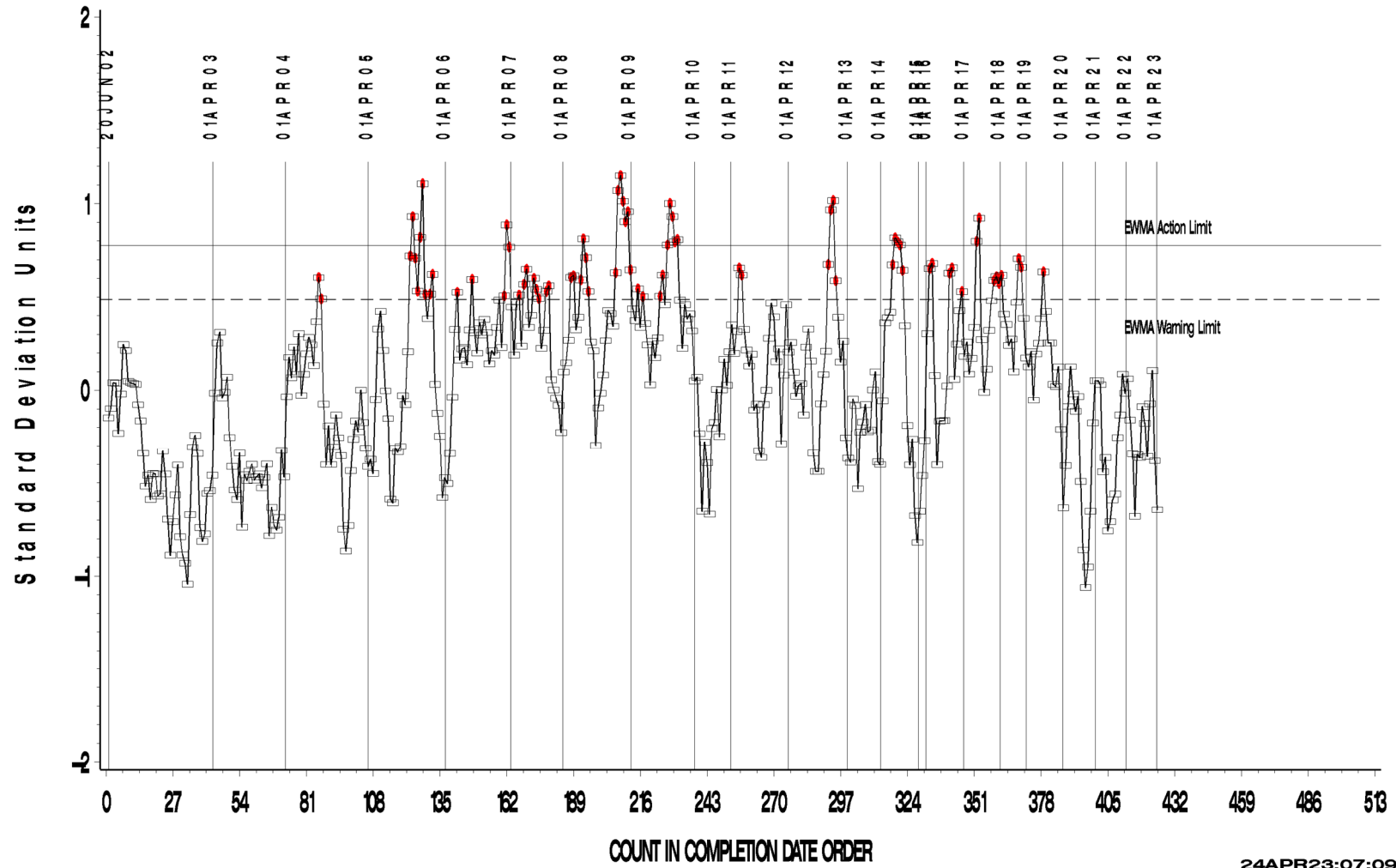
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L-33-1 (D7038)

L-33-1 INDUSTRY OPERATIONALLY VALID DATA

FINAL RUST RESULT

LTMS Precision Analysis



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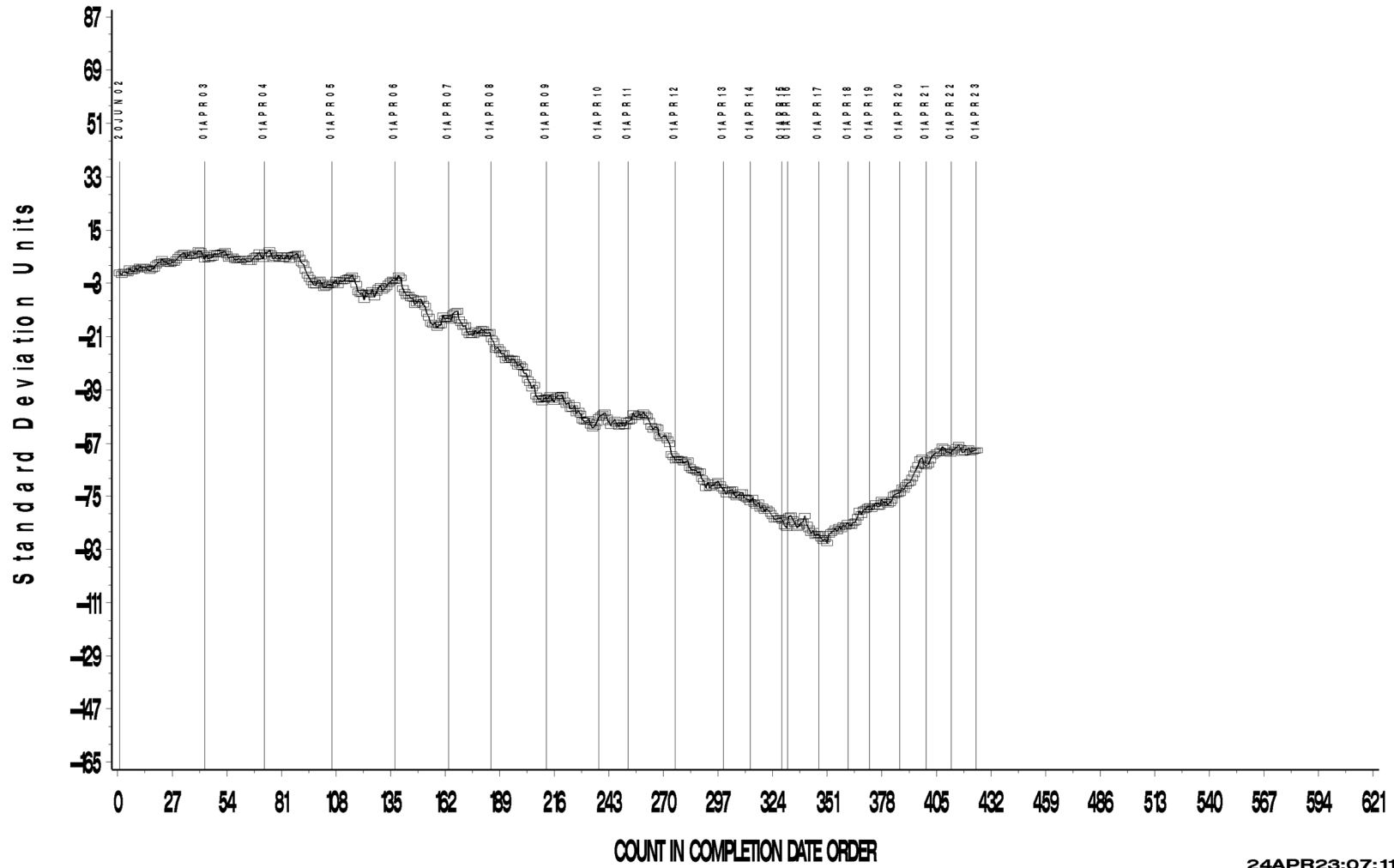
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L-33-1 INDUSTRY OPERATIONALLY VALID DATA

FINAL RUST RESULT

CUSUM Severity Analysis



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TIMELINE ADDITIONS

Effective Date	Information Letter	Event
		No information letters issued during this reporting period.



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LAB VISITS

No visits were conducted during this reporting period.

INFORMATION LETTERS

No information letters were issued during this reporting period.



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STATUS OF REFERENCE OIL SUPPLY

Oil	Cans @ Labs	@ TMC	
		Cans	Gallons
123-2	7	73	73.7
126	18	81	81.0
155-1	13	16	16.6
155-2	13	243	243.3
Total	51	413	414.6

The TMC quantity remaining presumes usage only for L-33-1 testing. 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. Oil 126 is a replacement for oil 123-2 that was approved for test use on February 22, 2023.



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