



Test Monitoring Center

203 Armstrong Drive, Freeport, PA 16229, USA

www.astmtmc.org
412-365-1000

MEMORANDUM: 23-033
DATE: October 26, 2023
TO: Anthony Lange, Chairman, L-33-1 Surveillance Panel
FROM: Dylan Beck *Dylan Beck*
SUBJECT: L-33-1 Testing from April 1, 2023 through September 30, 2023

Attached is a summary of testing activity this period.

DJB/djb/mem23-033.djb.doc

cc: Jeff Clark

Sean Moyer

L-33-1 Surveillance Panel

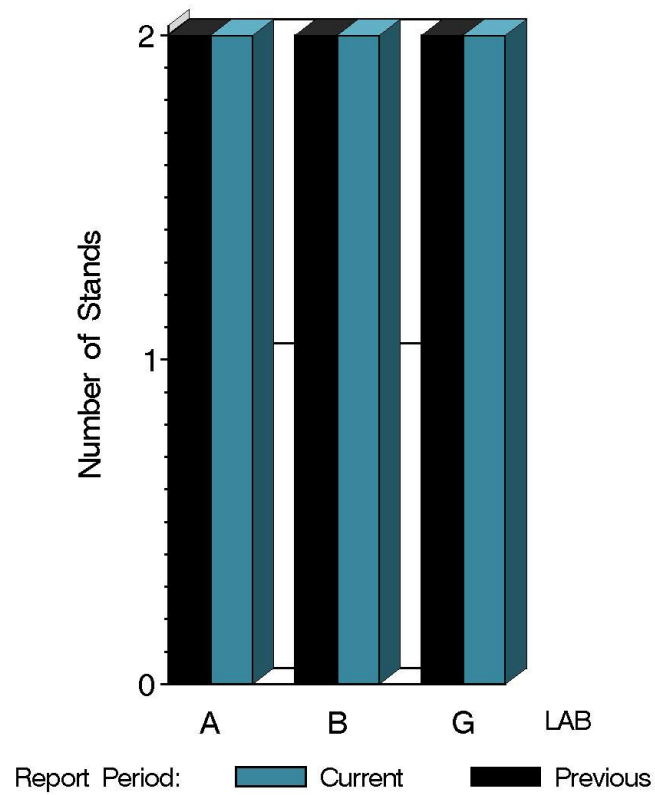
<https://www.astmtmc.org/ftp/docs/gear/1331/semiannualreports/L331-10-2023.pdf>

Distribution: email

L-33-1 (D7038)

	Reporting Data	Calibrated on 09-30-23
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	
		123-2	126	155-1	155-2	Last Period	This Period
Accepted for calibration	AC	2	1	0	5	6	8
Rejected (Mild)	OC	0	0	0	0	0	0
Rejected (Severe)	OC	0	0	0	0	0	0
Rejected (Precision)	OC	0	0	0	0	0	0
Invalidated calibration	LC	0	0	1	0	0	1
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	6	0
Total		2	1	1	5	12	9



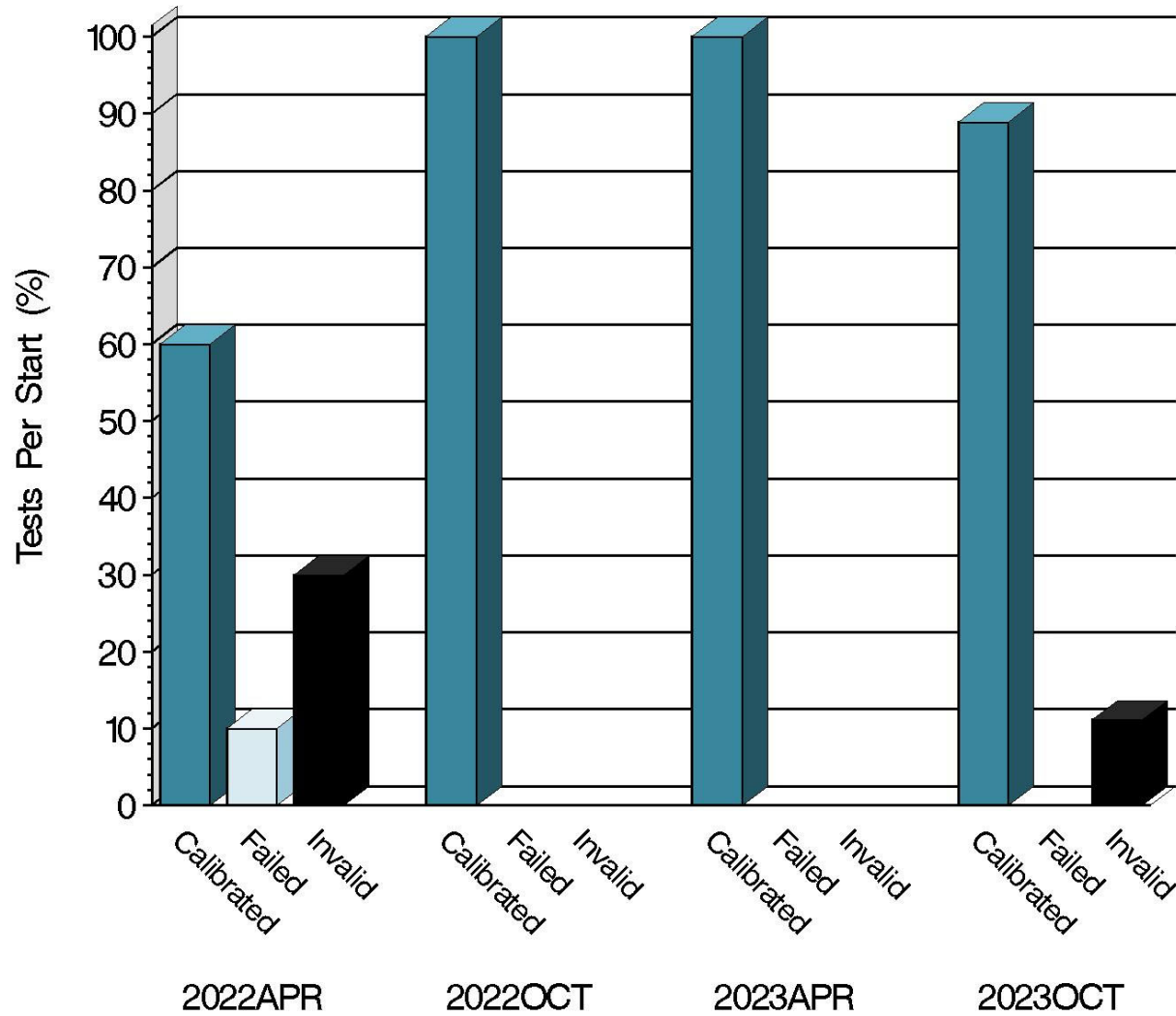
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CALIBRATION ATTEMPT SUMMARY



Resolution

Report Period

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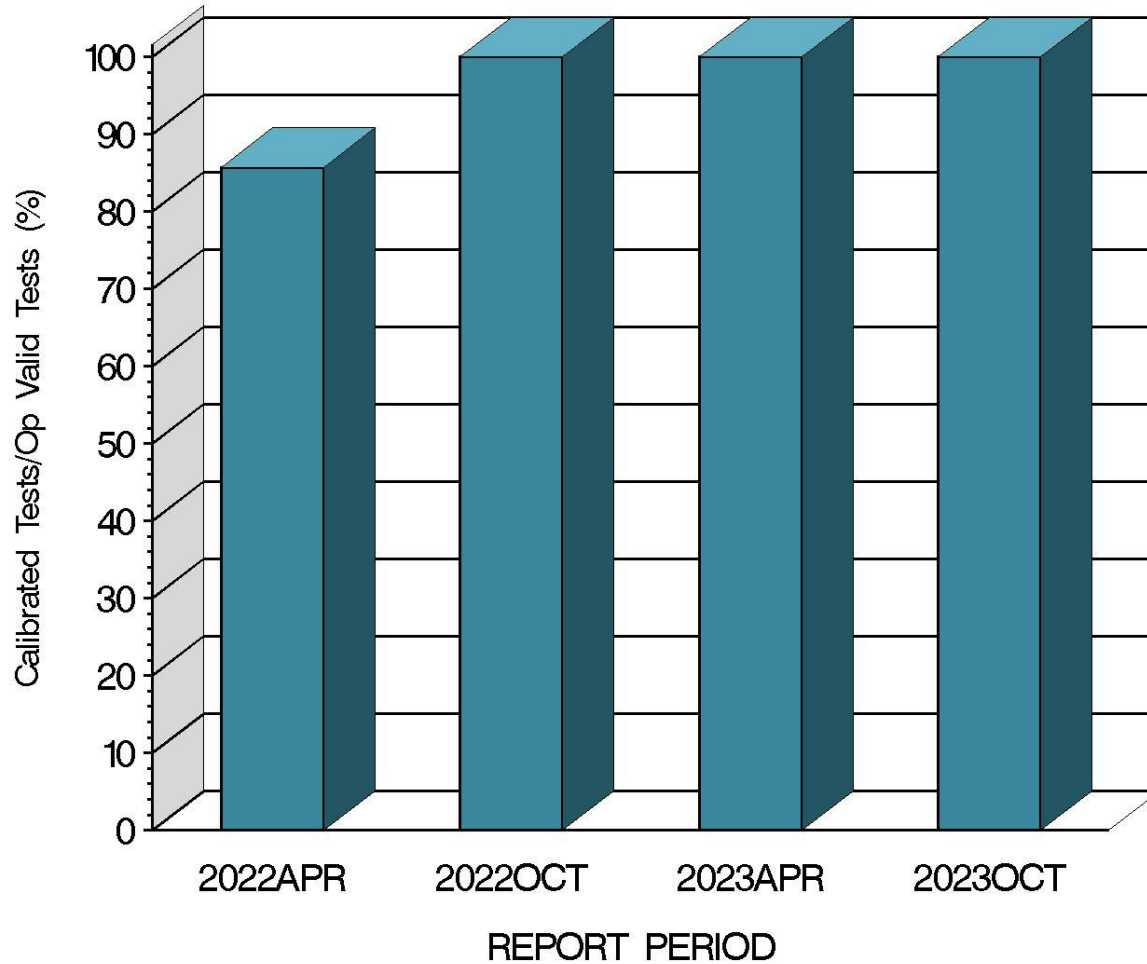
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OPERATIONALLY VALID TESTS
MEETING ACCEPTANCE CRITERIA



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CAUSES FOR LOST TESTS

		Oil			Validity			Loss Rate		
Lab	Cause	123-2	155-1	155-2	RC	LC	XC	Lost	Starts	%
G	RTD signal dropped out during storage phase.		•			•		1	3	33%
	Lost	0	1	5	0	0	0			
	Starts	2	1	0	9	9	9			
	%	0%	100%	0%	0%	0%	0%			



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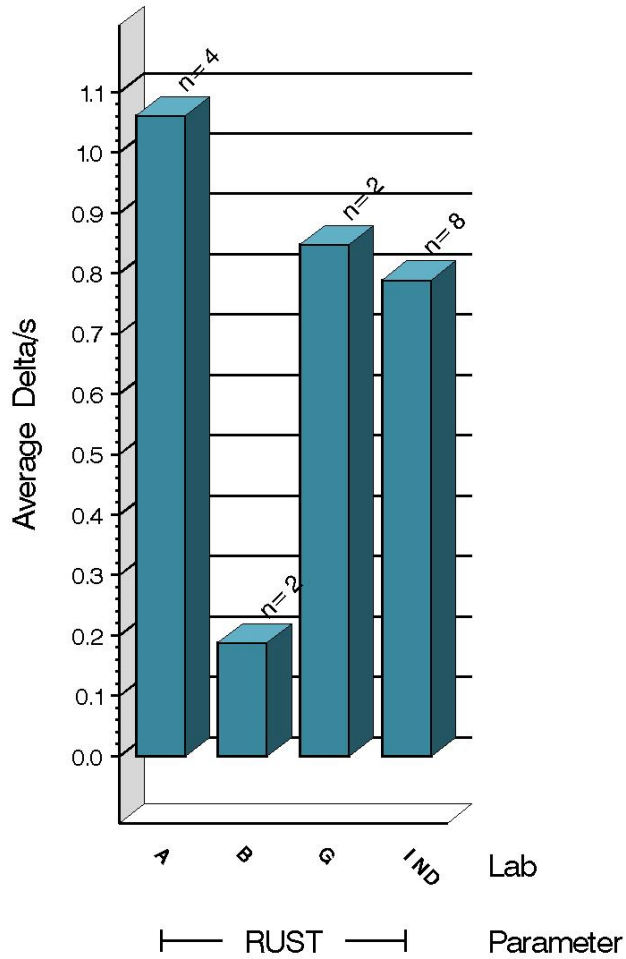
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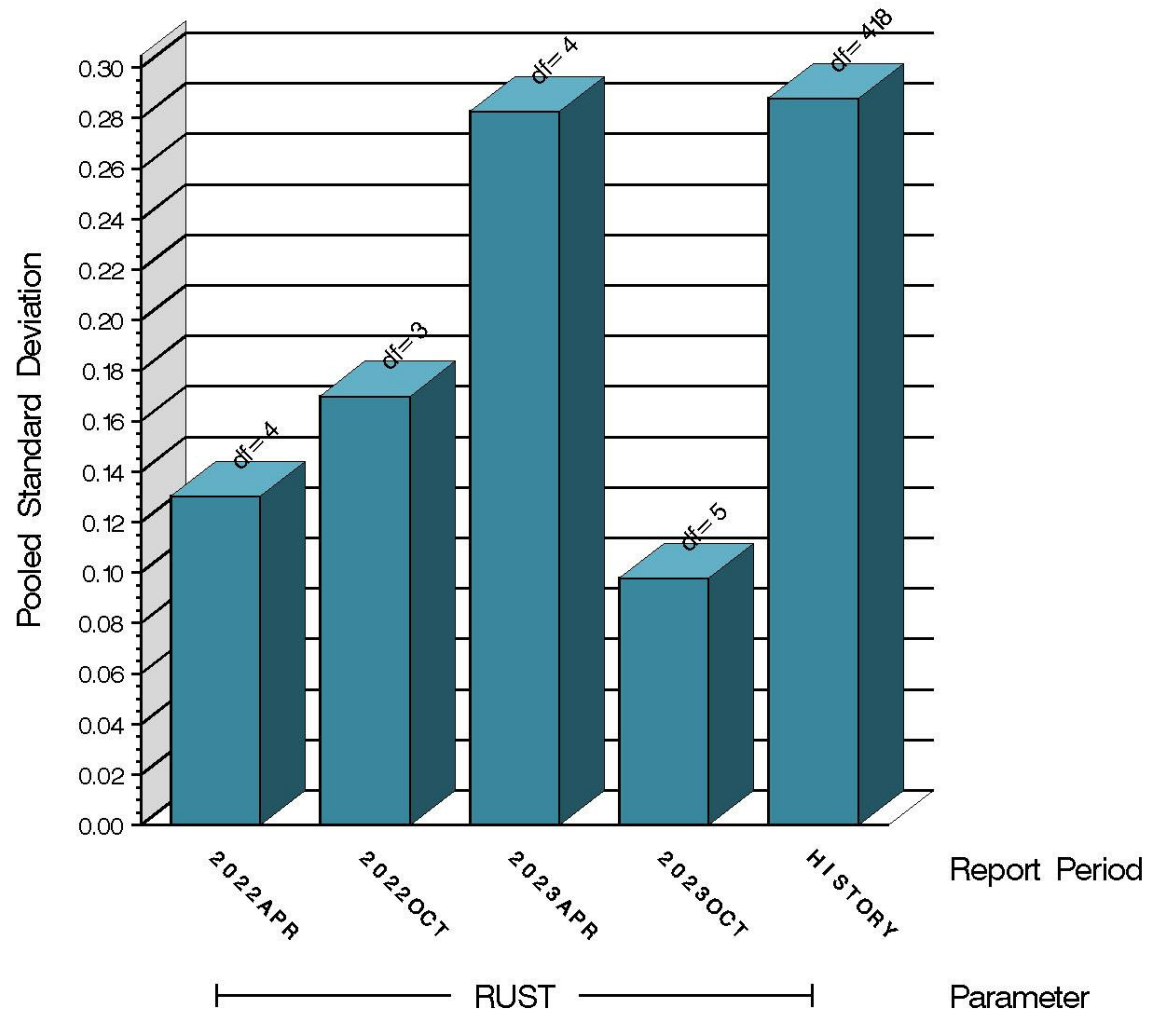
TEST SEVERITY
DELTA/S BY LAB



Average Δ/s by Lab			
Lab	N	RUST	Trend
A	4	1.061	Trending Mild
B	2	0.187	On Target
G	2	0.847	Trending Mild
Industry	8	0.789	Trending Mild
Shift	8	0.197 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 reporting period ended with the warning limit being exceeded in the mild direction.

Precision

The precision action limit was not exceeded during this period.

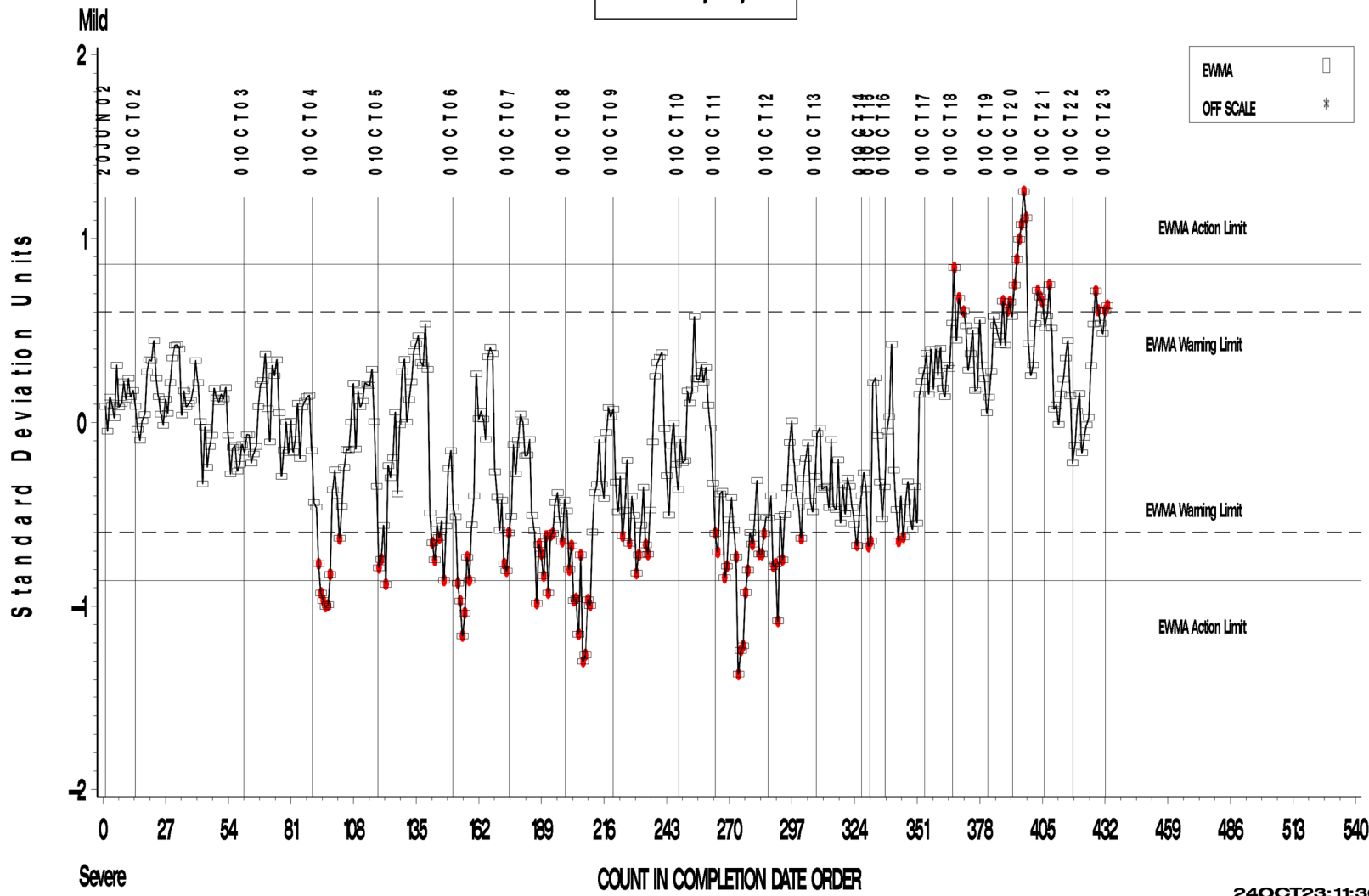
Industry control charts follow.

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L-33-1 INDUSTRY OPERATIONALLY VALID DATA

FINAL RUST RESULT

LIMS Severity Analysis



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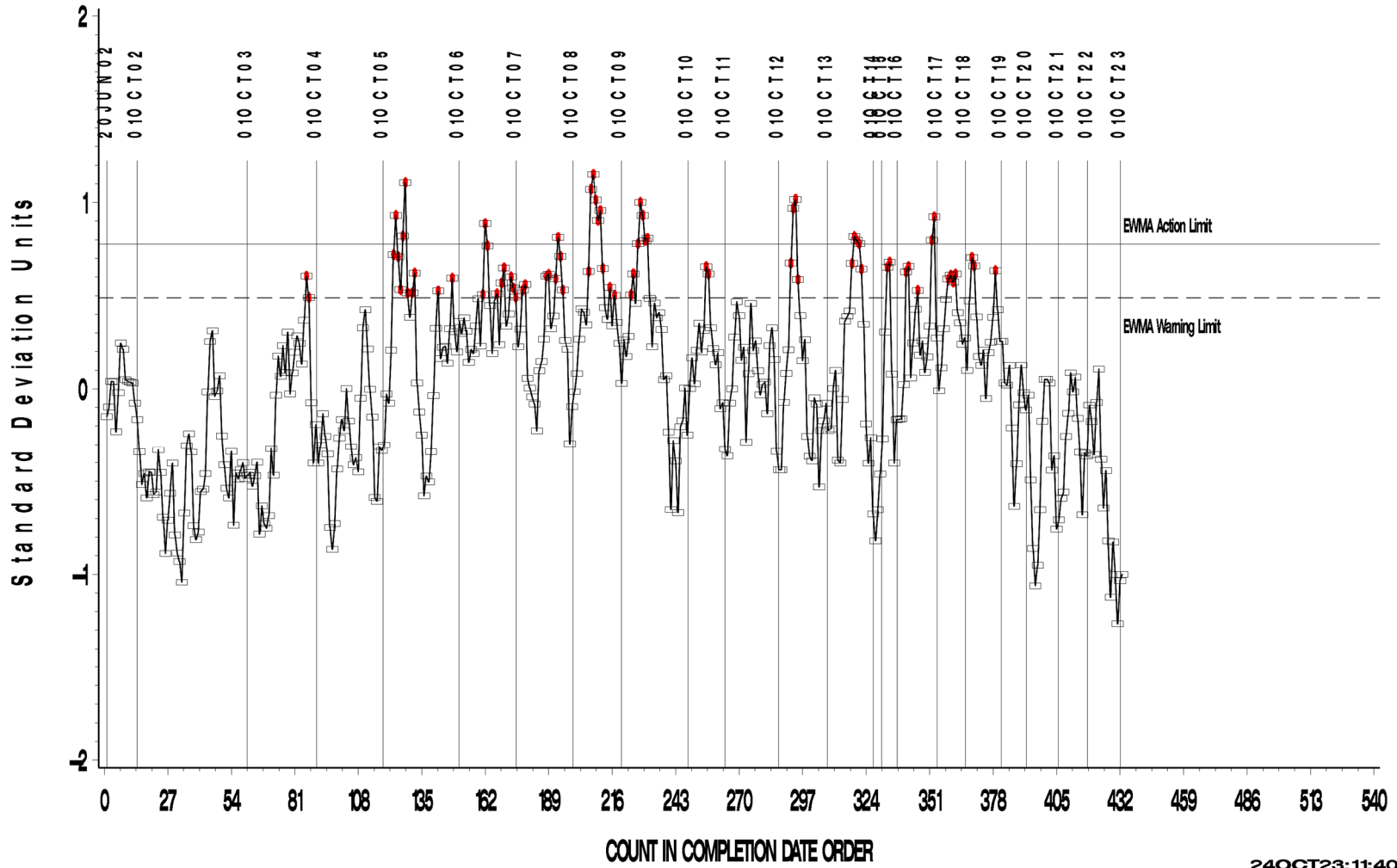
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L-33-1 INDUSTRY OPERATIONALLY VALID DATA

FINAL RUST RESULT

LTMS Precision Analysis



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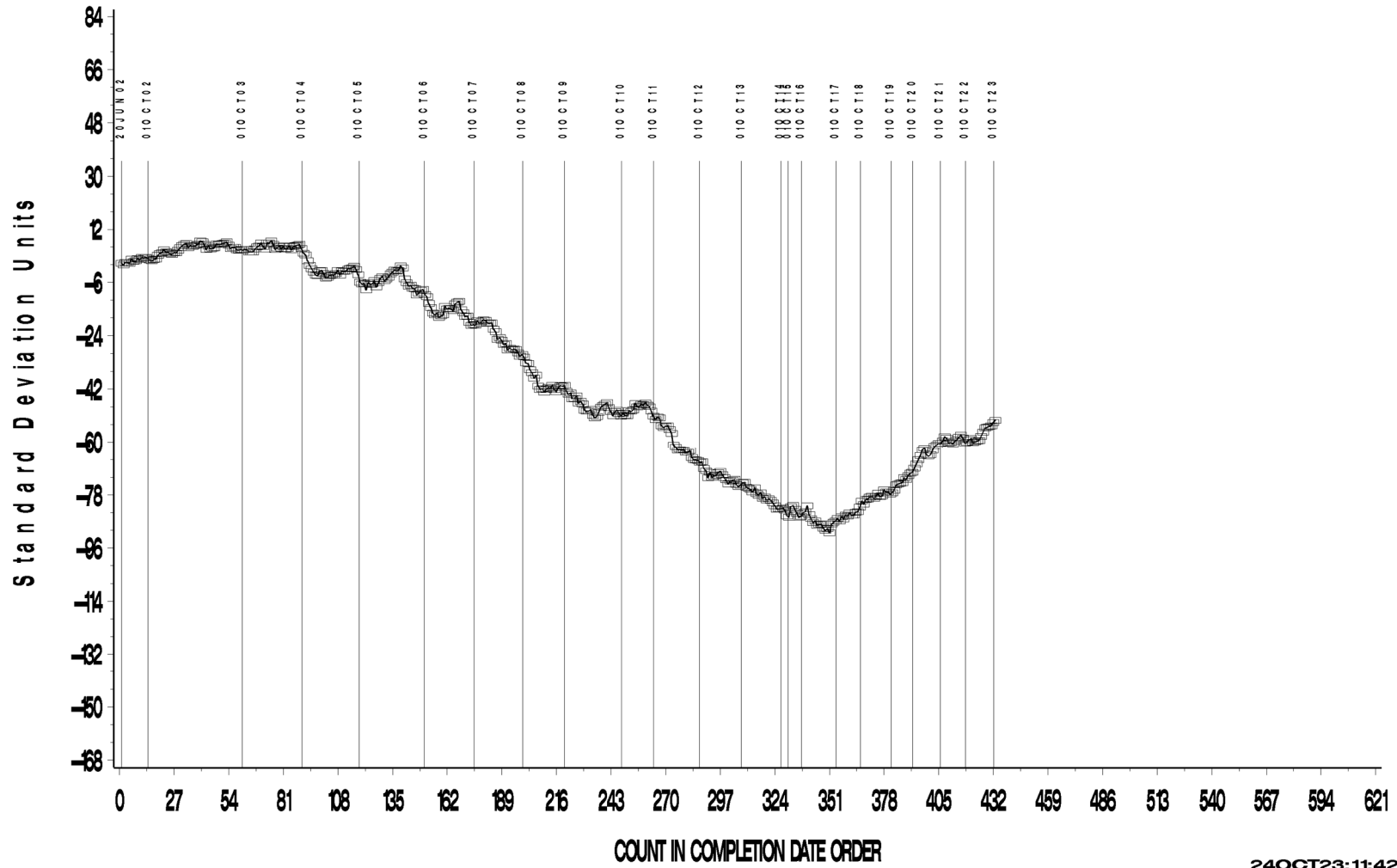
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L-33-1 INDUSTRY OPERATIONALLY VALID DATA

FINAL RUST RESULT

CUSUM Severity Analysis



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TIMELINE ADDITIONS

Effective Date	Information Letter	Event
08/09/2023	23-1	Edit test method to allow for the use of E-type thermocouples.



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LAB VISITS

No lab visits were conducted during this reporting period.

INFORMATION LETTERS

Information letters 23-1 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	Cans @ Labs	@ TMC	
		Cans	Gallons
123-2	5	73	73.7
126	22	75	75.0
155-1	12	13	13.4
155-2	15	234	234.9
Total	54	395	397.0

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.



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