



Test Monitoring Center

203 Armstrong Drive, Freeport, PA 16229, USA

www.astmtmc.org
412-365-1000

MEMORANDUM: 22-031
DATE: October 25, 2022
TO: Anthony Lange, Chairman, L-33-1 Surveillance Panel
FROM: Dylan Beck *Dylan Beck*
SUBJECT: L-33-1 Testing from April 1, 2022 through September 30, 2022

Attached is a summary of testing activity this period.

DJB/djb/mem22-031.djb.doc

cc: Jeff Clark

Sean Moyer

L-33-1 Surveillance Panel

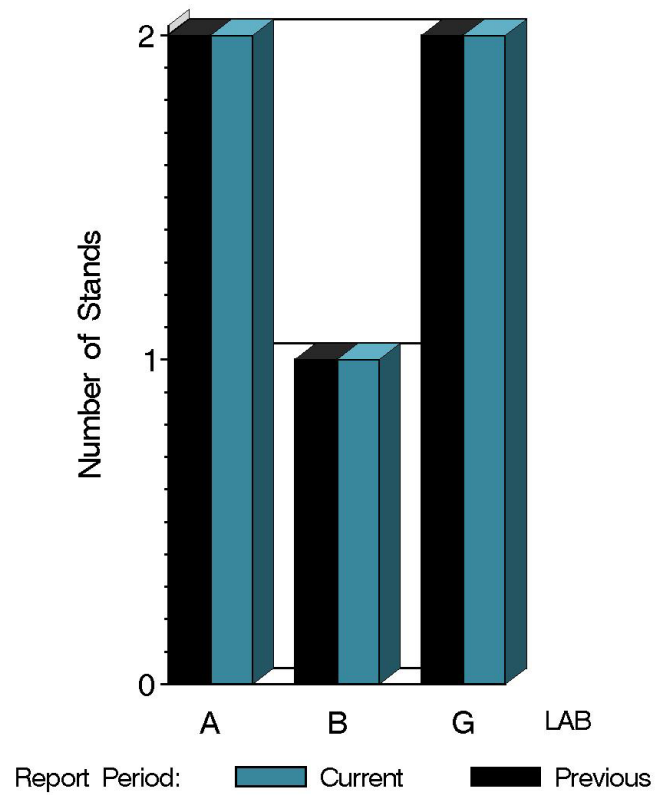
<https://www.astmtmc.org/ftp/docs/gear/1331/semiannualreports/L331-10-2022.pdf>

Distribution: email

L-33-1 (D7038)

	Reporting Data	Calibrated on 09-30-22
Number of Labs	3	3
Number of Stands	5	5

BY-LAB STAND
DISTRIBUTION



13:35:19 20OCT2022



A Program of ASTM International

Test Monitoring Center

203 Armstrong Drive, Freeport, PA 16229, USA

www.astmtmc.org
412-365-1000

L-33-1 (D7038)

Test Distribution by Oil and Validity

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



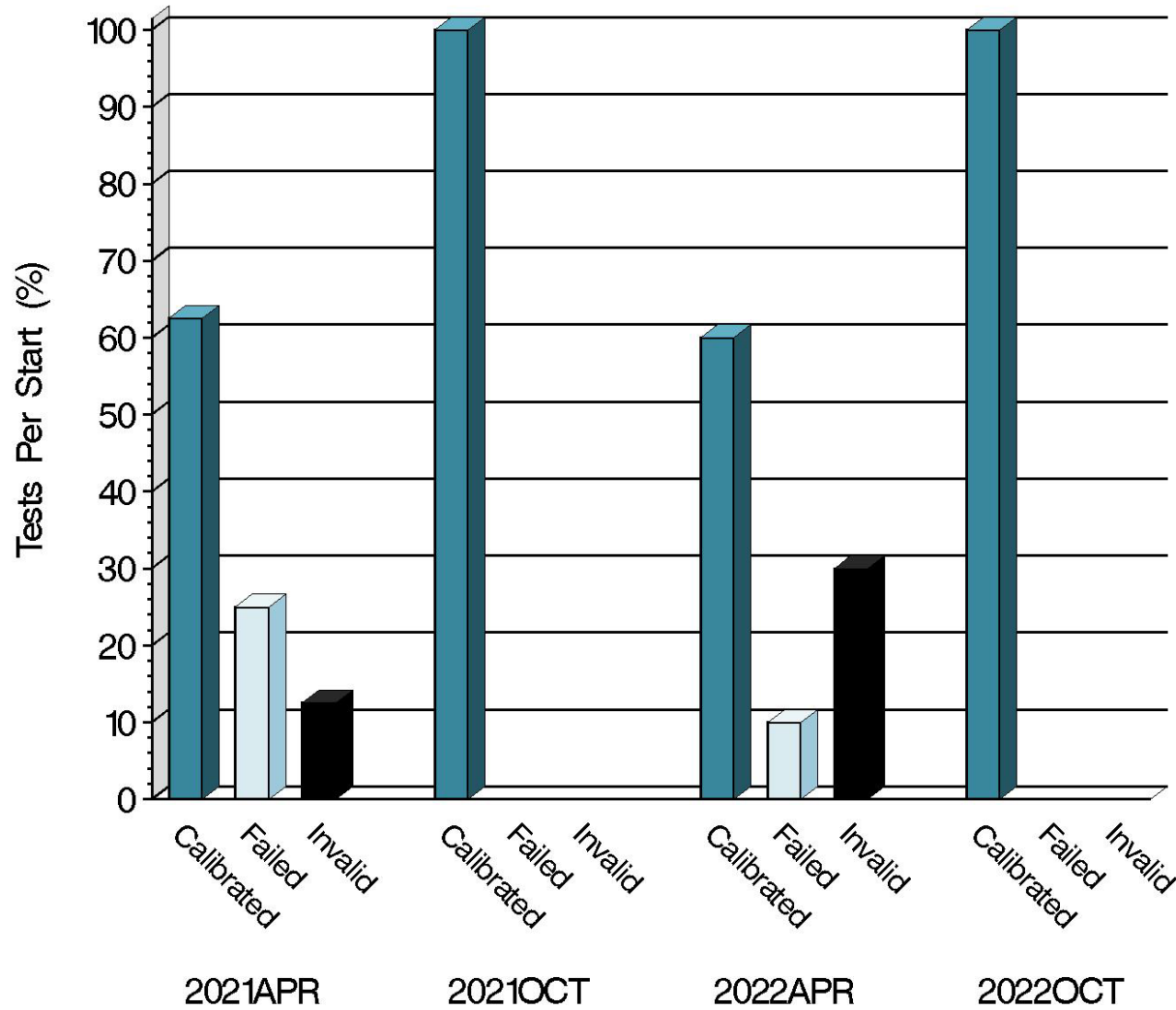
Test Monitoring Center

203 Armstrong Drive, Freeport, PA 16229, USA

www.astmtmc.org
412-365-1000

L-33-1 (D7038)

CALIBRATION ATTEMPT SUMMARY



Resolution

Report Period

13:36:19 20OCT2022



A Program of ASTM International

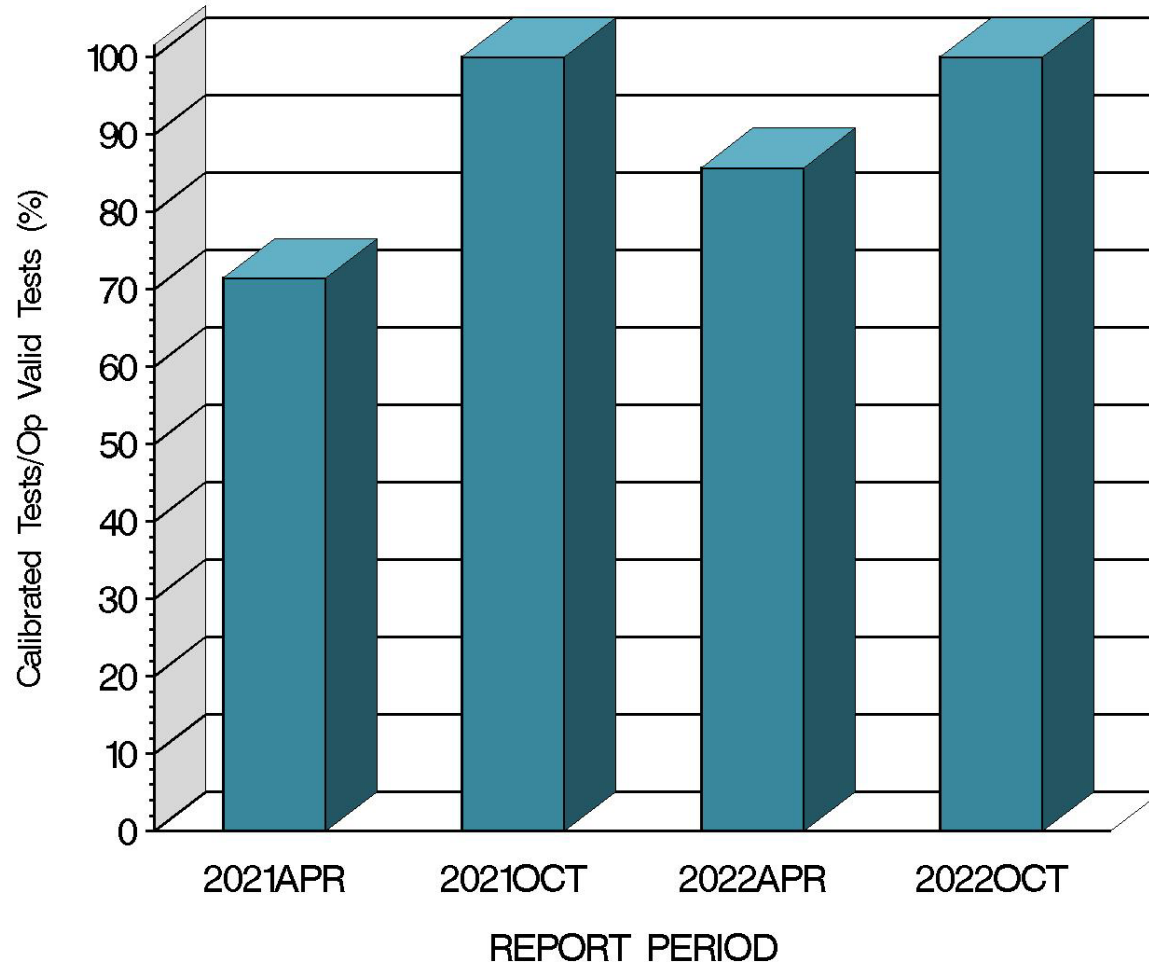
Test Monitoring Center

203 Armstrong Drive, Freeport, PA 16229, USA

www.astmtmc.org
412-365-1000

L-33-1 (D7038)

OPERATIONALLY VALID TESTS
MEETING ACCEPTANCE CRITERIA



13:36:19 20OCT2022



A Program of ASTM International

Test Monitoring Center

203 Armstrong Drive, Freeport, PA 16229, USA

www.astmtmc.org
412-365-1000

L-33-1 (D7038)

CAUSES FOR LOST TESTS

Lab	Cause	Oil			Validity			Loss Rate		
		123-2	155-1	155-2	RC	LC	XC	Lost	Starts	%
	No lost tests during this reporting period.							0	6	0%
	Lost	0	0	0	0	0	2			
	Starts	3	1	2	6	6	6			
	%	0%	0%	0%	0%	0%	0%			



A Program of ASTM International

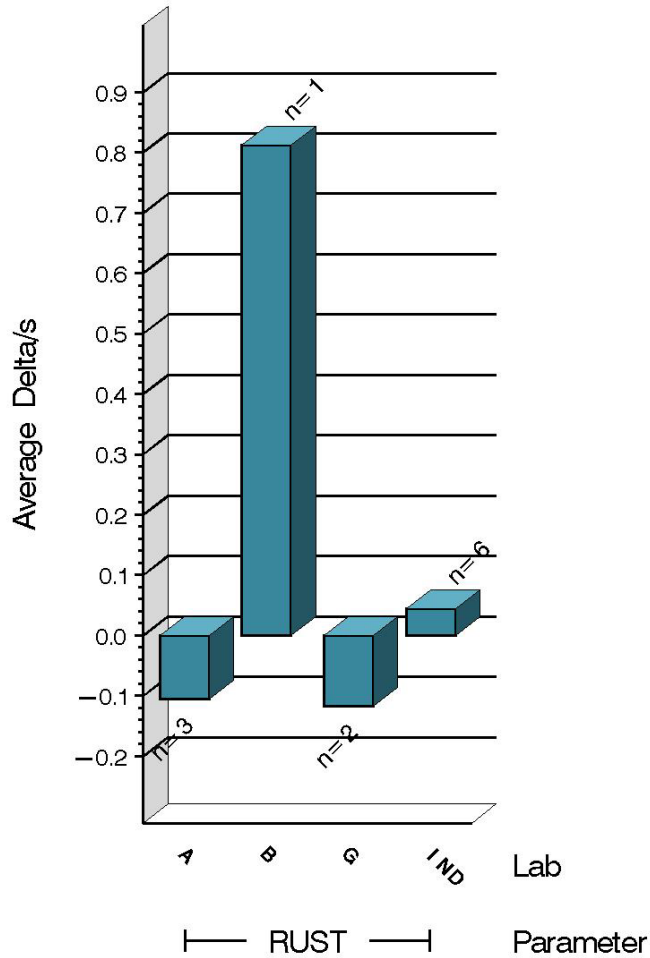
Test Monitoring Center

203 Armstrong Drive, Freeport, PA 16229, USA

www.astmtmc.org
412-365-1000

L-33-1 (D7038)

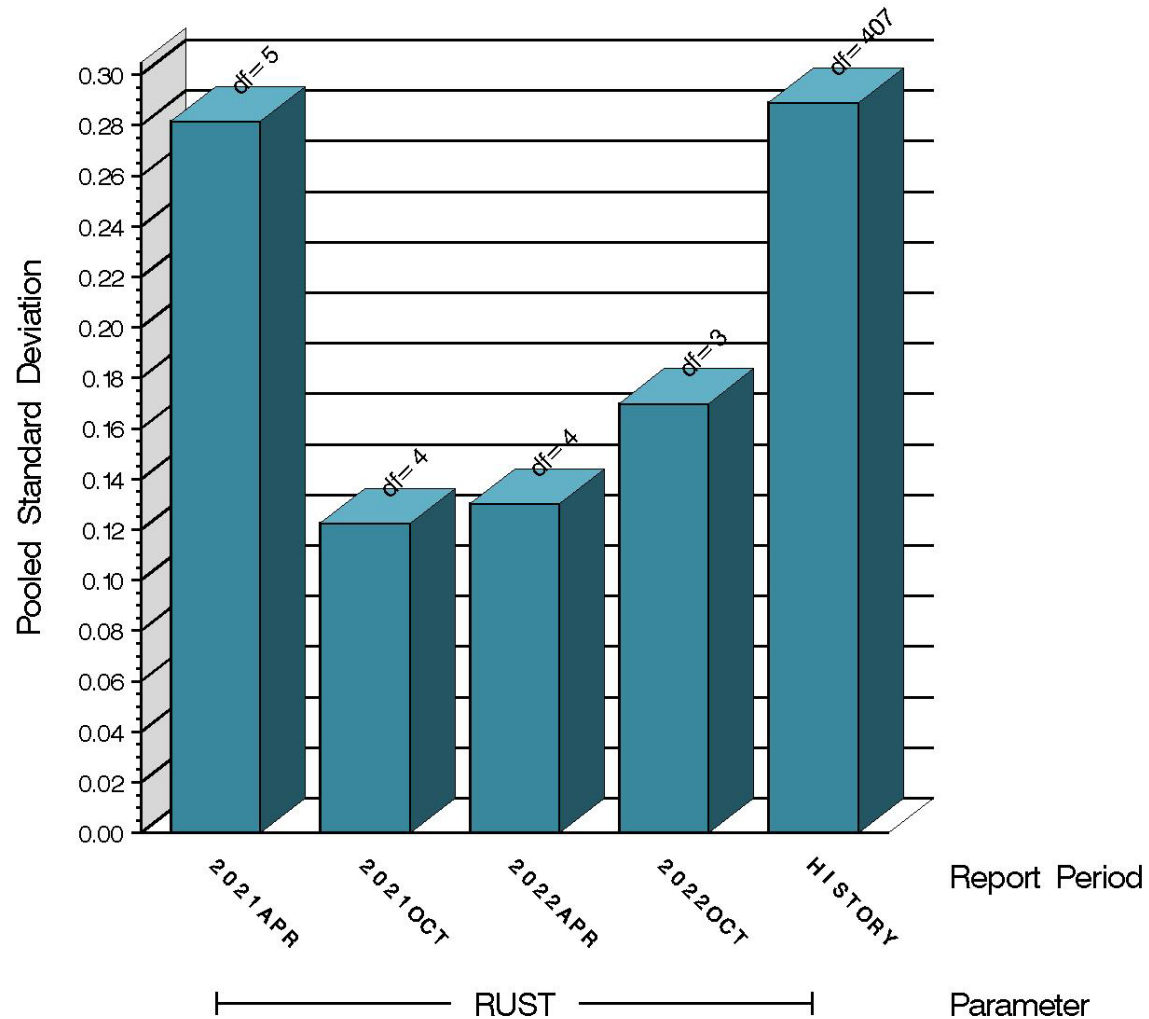
TEST SEVERITY
DELTA/S BY LAB



Average Δ/s by Lab			
Lab	N	RUST	Trend
A	3	-0.105	On Target
B	1	0.812	Trending Mild
G	2	-0.117	On Target
Industry	6	0.043	On Target
Shift	6	0.011 merits	

L-33-1 (D7038)

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



13:36:19 20OCT2022



A Program of ASTM International

Test Monitoring Center

203 Armstrong Drive, Freeport, PA 16229, USA

www.astmtmc.org
412-365-1000

L-33-1 (D7038)

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.



Test Monitoring Center

203 Armstrong Drive, Freeport, PA 16229, USA

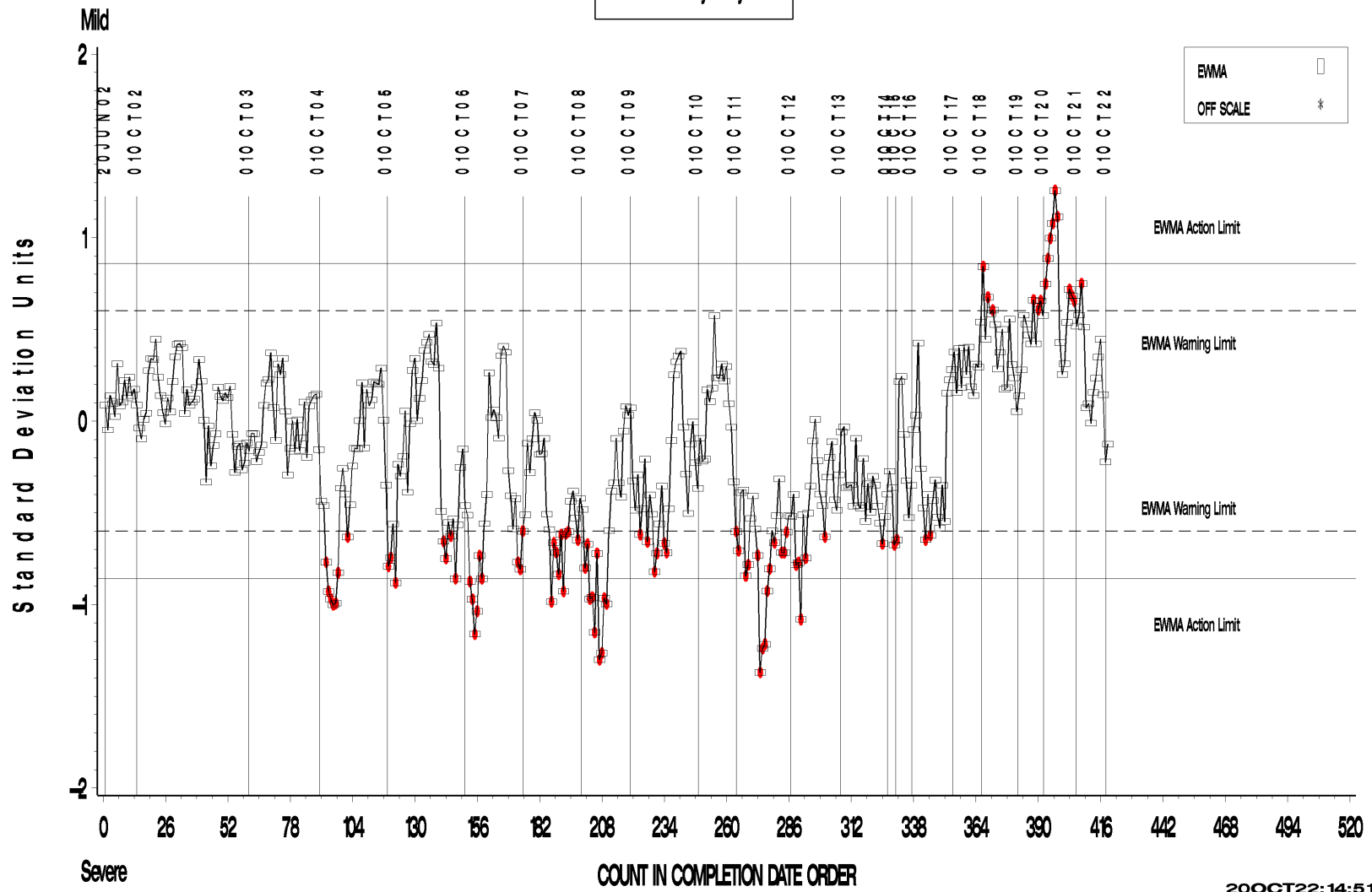
www.astmtmc.org
412-365-1000

L-33-1 (D7038)

L-33-1 INDUSTRY OPERATIONALLY VALID DATA

FINAL RUST RESULT

LTMS Severity Analysis



20OCT22:14:51



A Program of ASTM International

Test Monitoring Center

203 Armstrong Drive, Freeport, PA 16229, USA

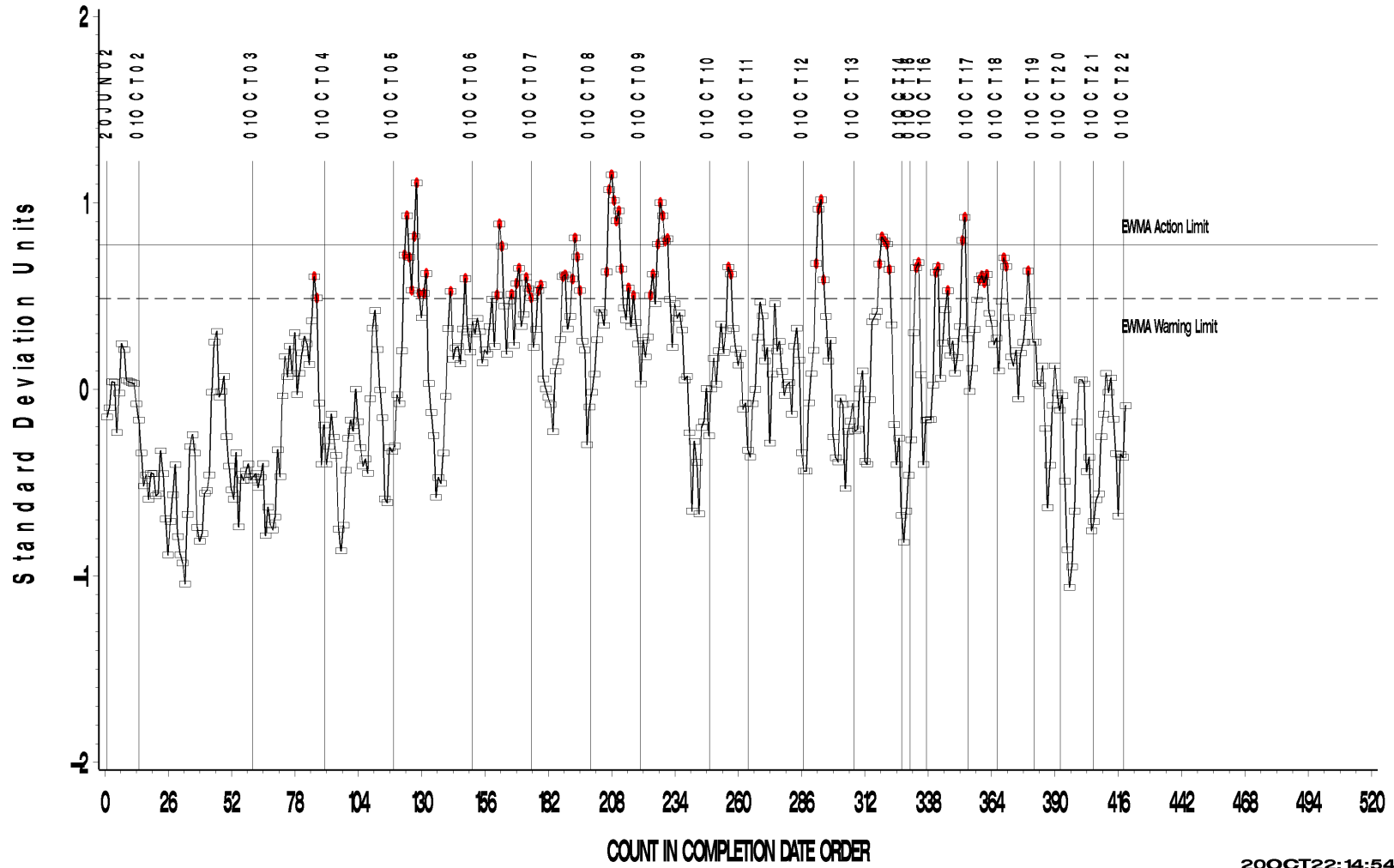
www.astmtmc.org
412-365-1000

L-33-1 (D7038)

L-33-1 INDUSTRY OPERATIONALLY VALID DATA

FINAL RUST RESULT

LTMS Precision Analysis



20OCT22:14:54



A Program of ASTM International

Test Monitoring Center

203 Armstrong Drive, Freeport, PA 16229, USA

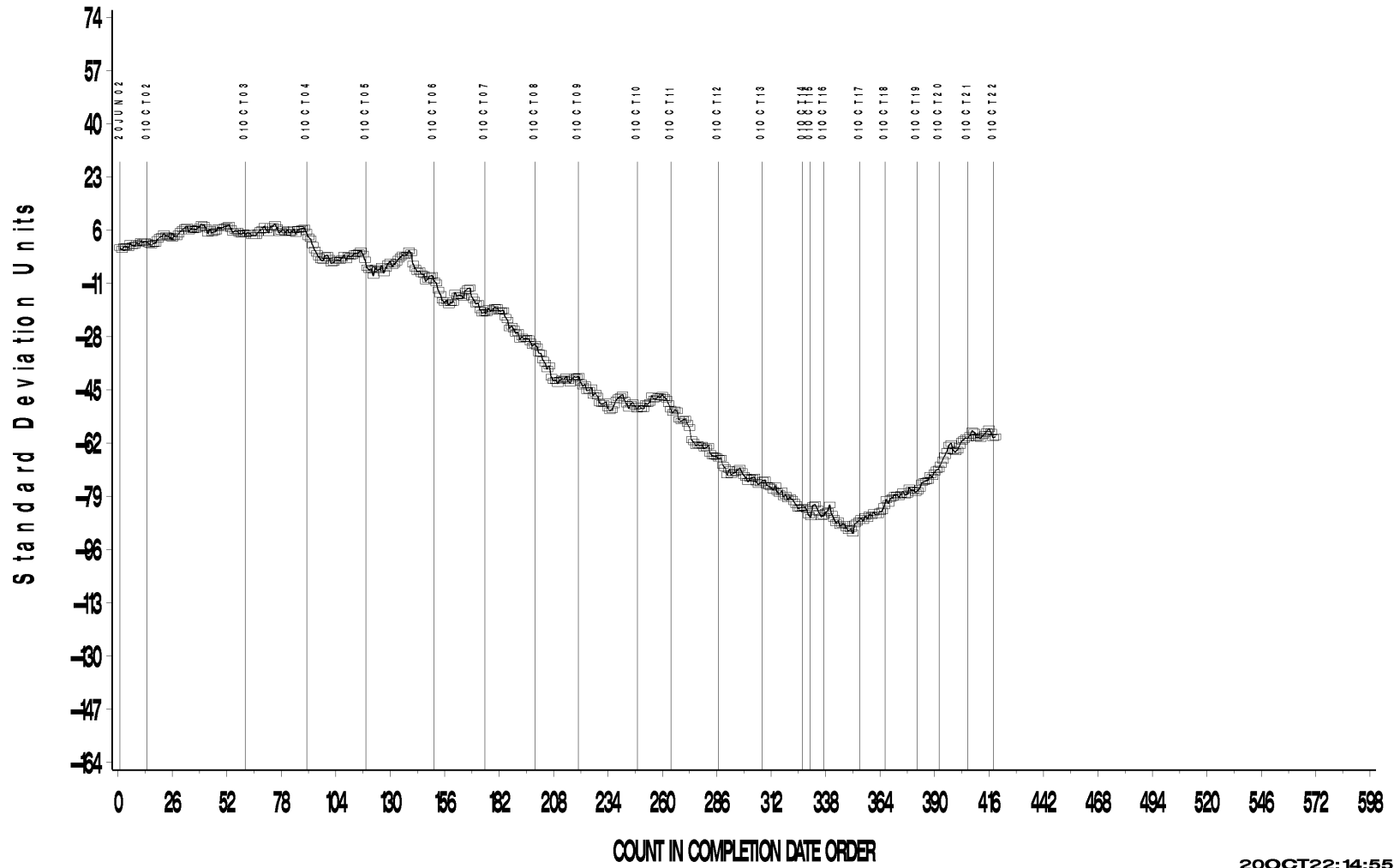
www.astmtmc.org
412-365-1000

L-33-1 (D7038)

L-33-1 INDUSTRY OPERATIONALLY VALID DATA

FINAL RUST RESULT

CUSUM Severity Analysis



20OCT22:14:55



A Program of ASTM International

Test Monitoring Center

203 Armstrong Drive, Freeport, PA 16229, USA

www.astmtmc.org
412-365-1000

L-33-1 (D7038)

TIMELINE ADDITIONS

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

L-33-1 (D7038)

LAB VISITS

A lab visit to lab A was conducted in May. All inspected areas were found to be in accordance with the test procedure.

INFORMATION LETTERS

No information letters were issued during this reporting period.



A Program of ASTM International

Test Monitoring Center

203 Armstrong Drive, Freeport, PA 16229, USA

www.astmtmc.org
412-365-1000

L-33-1 (D7038)

STATUS OF REFERENCE OIL SUPPLY

Oil	Cans @ Labs	@ TMC	
		Cans	Gallons
123-2	11	73	73.7
155-1	14	30	30.6
155-2	2	255	255.3
Total	27	358	359.6

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 has been received and approved by the TMC. 126 has not yet been approved by the L-33-1 surveillance panel for reference test use.