



Test Monitoring Center

203 Armstrong Drive, Freeport, PA 16229, USA

www.astmtmc.org
412-365-1000

MEMORANDUM: 22-009
DATE: April 28, 2022
TO: Anthony Lange, Chairman, L-33-1 Surveillance Panel
FROM: Dylan Beck *Dylan Beck*
SUBJECT: L-33-1 Testing from October 1, 2021 through March 31, 2022

Attached is a summary of testing activity this period.

DJB/djb/mem22-009.djb.doc

cc: Frank Farber
Jeff Clark

L-33-1 Surveillance Panel

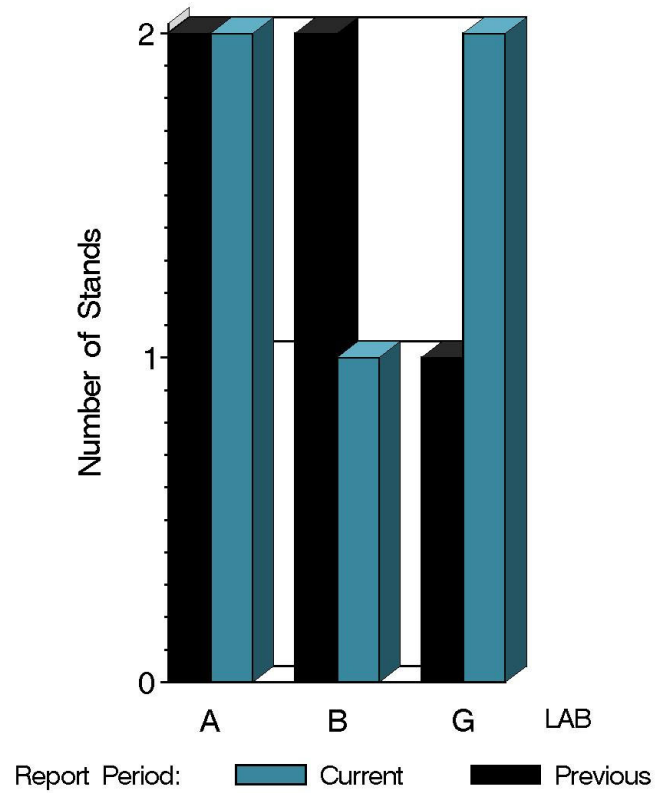
<https://www.astmtmc.org/ftp/docs/gear/1331/semiannualreports/L331-04-2022.pdf>

Distribution: email

L-33-1 (D7038)

	Reporting Data	Calibrated on 03-31-22
Number of Labs	3	3
Number of Stands	5	5

BY-LAB STAND
DISTRIBUTION



9:01:13 25APR2022



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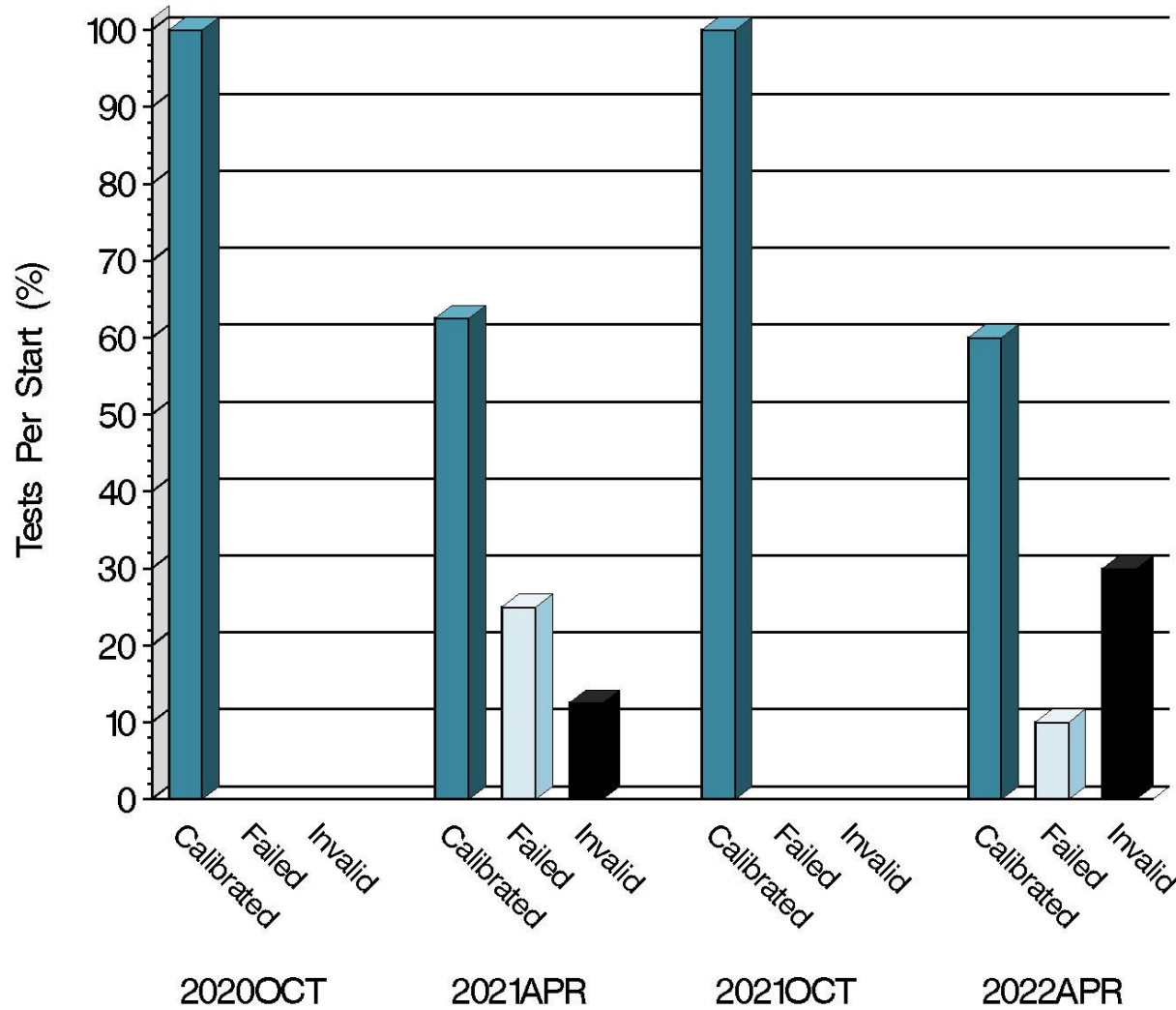
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Test Distribution by Oil and Validity

					Totals	
					Last Period	This Period
		123-2	155-1	155-2		
Accepted for calibration	AC	1	5	0	6	6
Rejected (Mild)	OC	0	0	0	0	0
Rejected (Severe)	OC	0	0	0	0	0
Rejected (Precision)	OC	0	0	1	0	1
Invalidated calibration	LC	0	0	0	0	0
Aborted	XC	1	0	1	0	2
Invalid cal, reported valid	RC	1	0	0	0	1
Accepted information run	NI	0	0	0	0	0
Total		3	5	2	6	10

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CALIBRATION ATTEMPT SUMMARY



Resolution

Report Period

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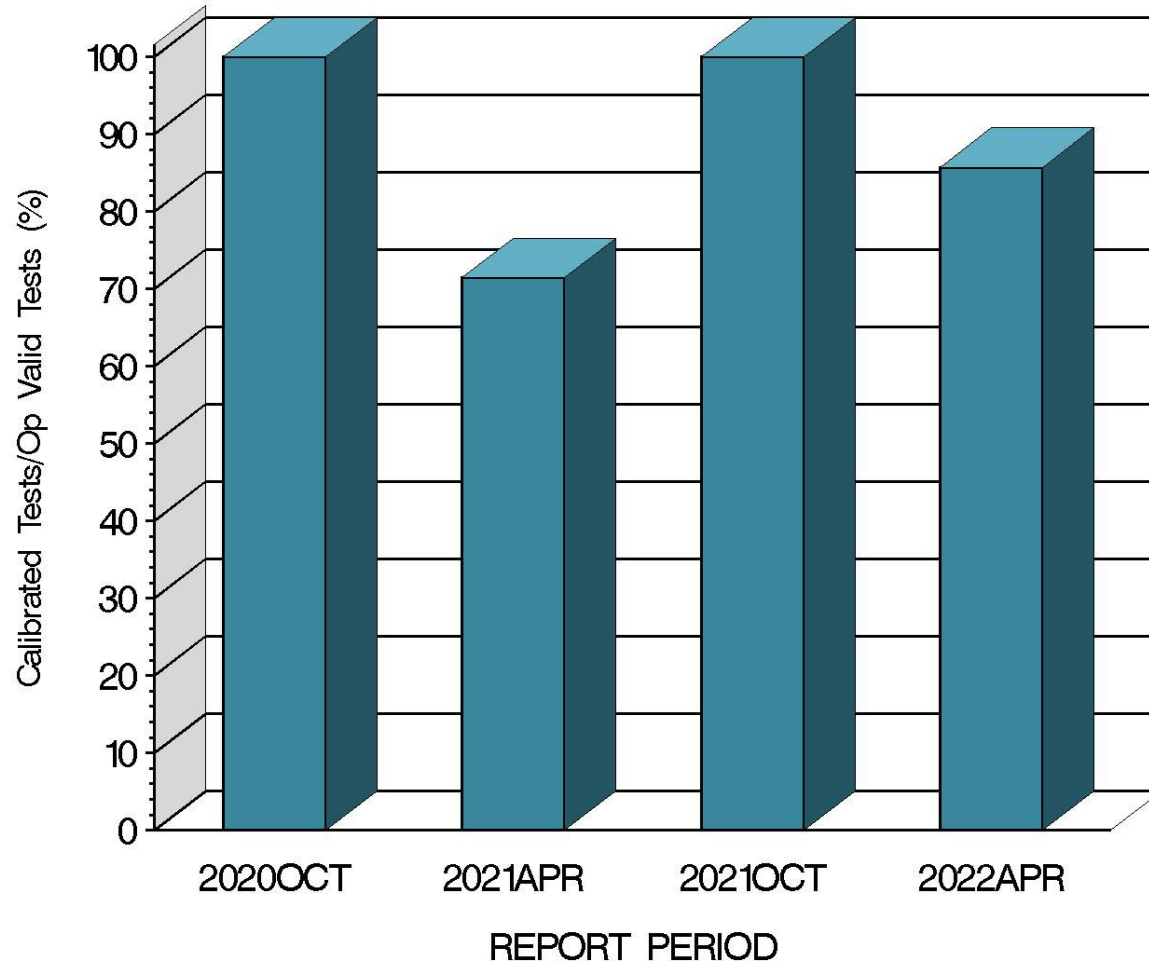
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OPERATIONALLY VALID TESTS
MEETING ACCEPTANCE CRITERIA



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CAUSES FOR LOST TESTS

		Oil			Validity			Loss Rate		
Lab	Cause	123-2	155-1	155-2	RC	LC	XC	Lost	Starts	%
G	Test aborted due to electrical noise	.		.			.	2	7	29%
G	Pinion turning torque out of spec	.			.			1	7	14%
		Lost	2	0	1	0	2			
		Starts	3	5	2	10	10	10		
		%	67%	0%	50%	10%	0%	20%		



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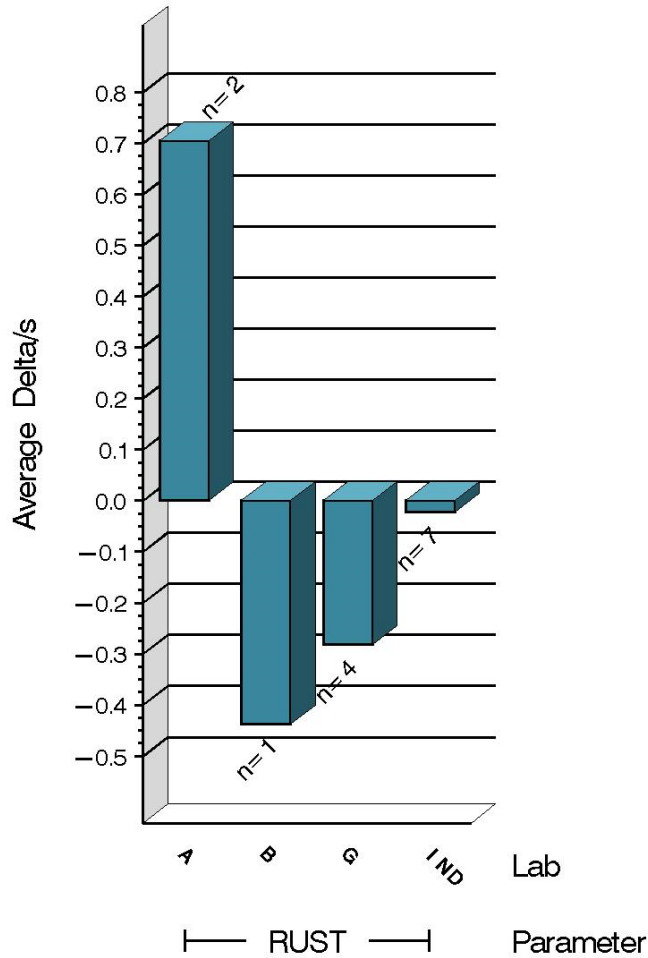
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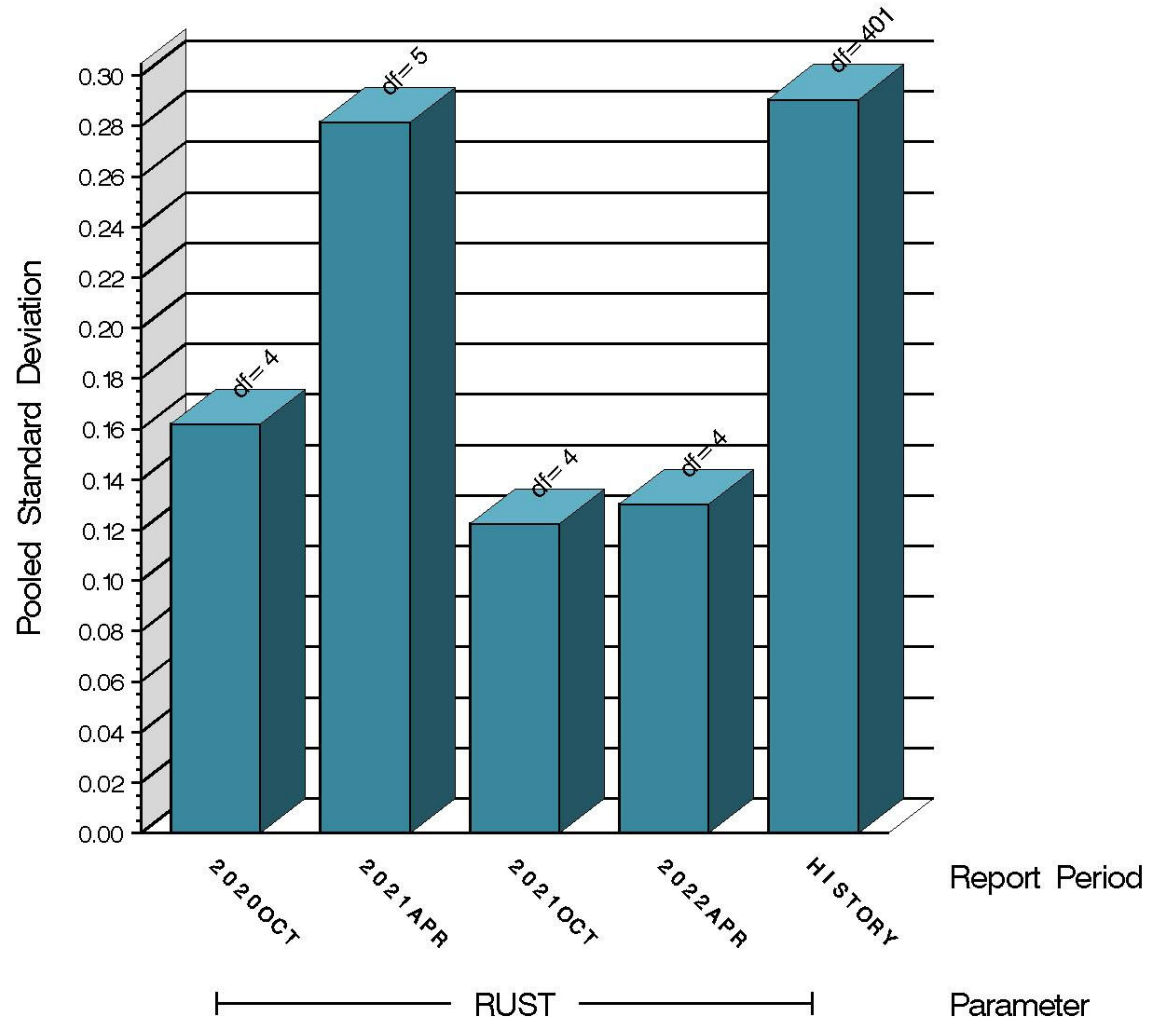
TEST SEVERITY
DELTA/S BY LAB



Average Δ/s by Lab			
Lab	N	RUST	Trend
A	2	0.704	Trending Mild
B	1	-0.437	On Target
G	4	-0.022	On Target
Industry	7	-0.219	On Target
Shift	7	-0.005 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 started with the warning limit being exceeded, but has since returned within the acceptable limits.

Precision

The precision action limit was not exceeded during this period.

Industry control charts follow.



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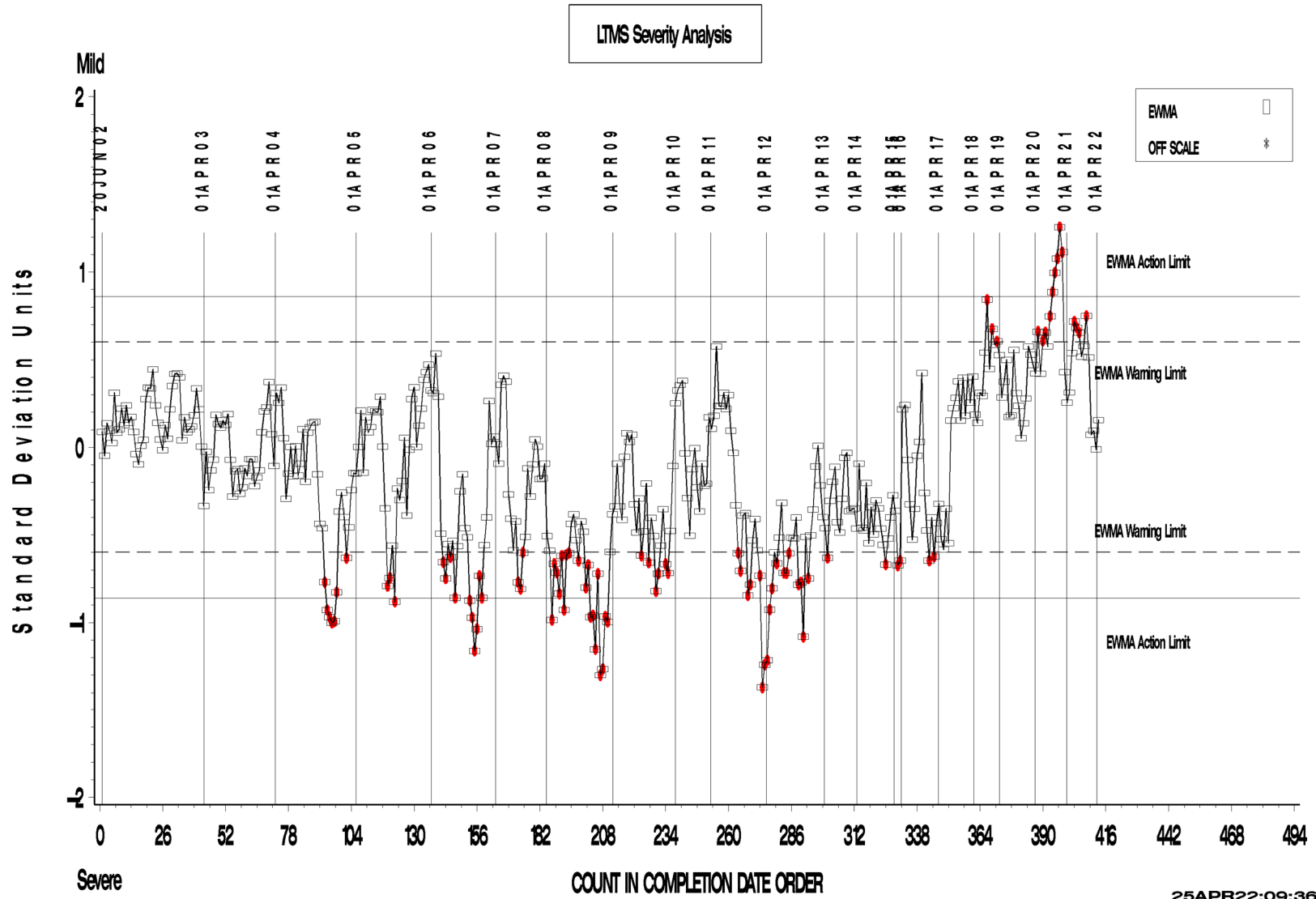
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L-33-1 INDUSTRY OPERATIONALLY VALID DATA

FINAL RUST RESULT



25APR22:09:36



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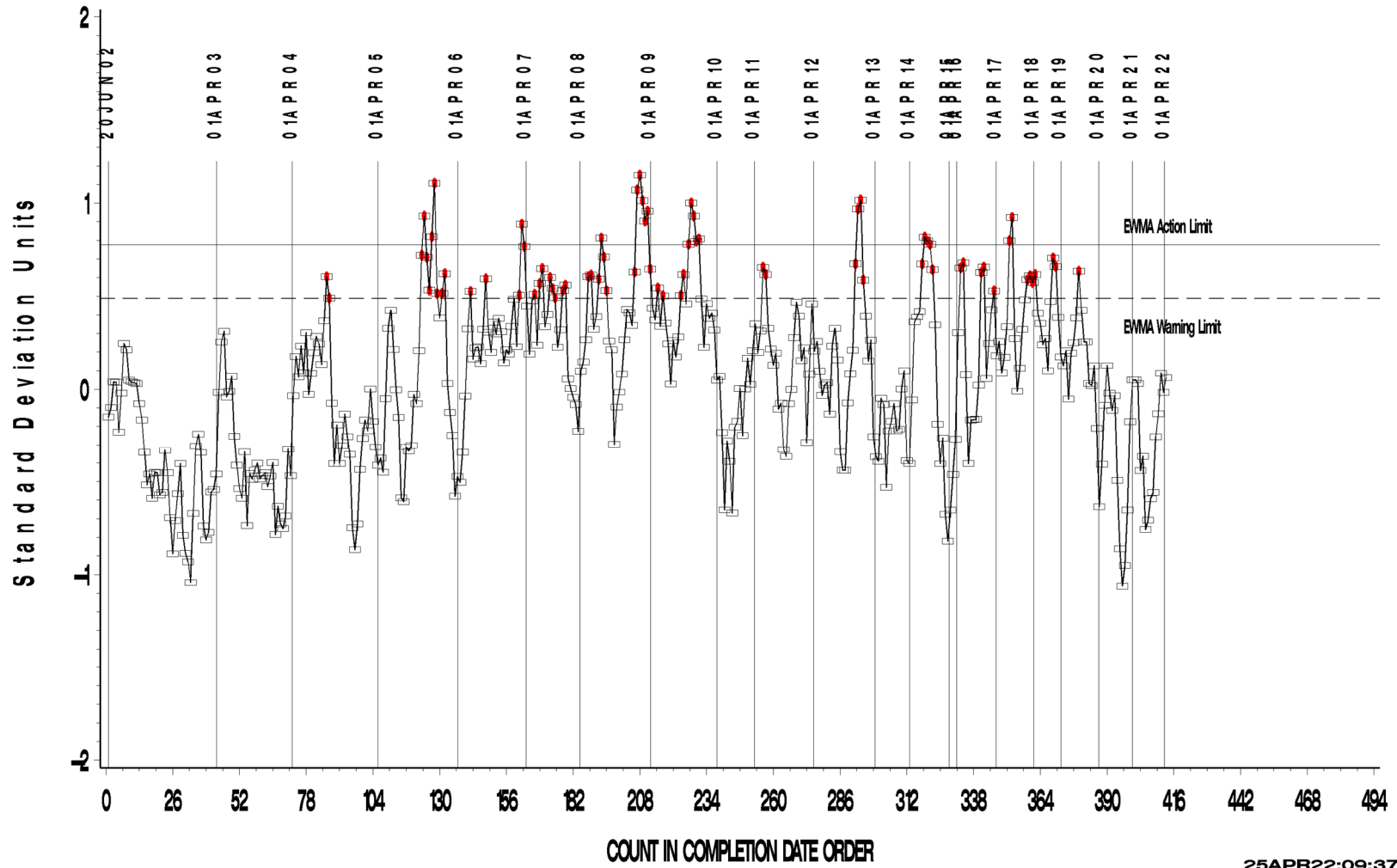
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L-33-1 INDUSTRY OPERATIONALLY VALID DATA

FINAL RUST RESULT

LTMS Precision Analysis



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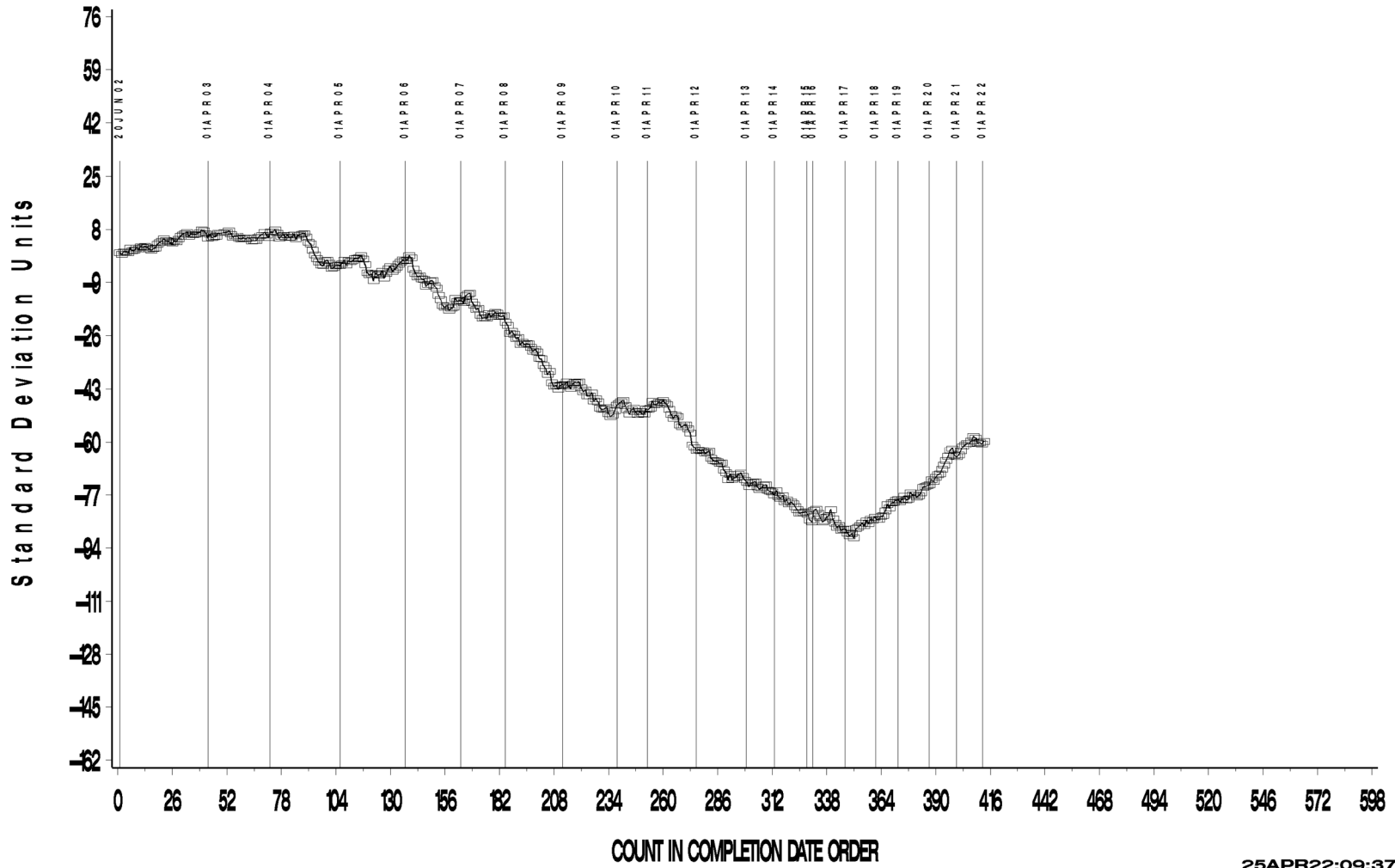
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L-33-1 INDUSTRY OPERATIONALLY VALID DATA

FINAL RUST RESULT

CUSUM Severity Analysis



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TIMELINE ADDITIONS

Effective Date	Information Letter	Event
12/02/2022	21-02	Web link to L-33-1 critical parts list added to the test procedure
01/16/2022	22-01	References added to the RCMS document for rater calibration requirements
03/08/2022	22-02	Updated wording for instructions of post test washing of parts



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LAB VISITS

No lab visits were conducted during this reporting period.

INFORMATION LETTERS

Information letters 21-02, 22-01, and 22-02 were all issued during this period. See the previous page on timeline additions for more details on these information letters.



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STATUS OF REFERENCE OIL SUPPLY

Oil	Cans @ Labs	@ TMC	
		Cans	Gallons
123-2	14	75	75.0
155-1	14	31	31.5
155-2	4	257	257.2
Total	32	363	363.7

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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