



A Program of ASTM International

Test Monitoring Center

203 Armstrong Drive, Freeport, PA 16229, USA

www.astmtmc.org
412-365-1000

MEMORANDUM: 24-012

DATE: May 14, 2024

TO: Caroline Louis, Chairman, High Temperature Cyclic Durability Test
Surveillance Panel

FROM: Dylan Beck *Dylan Beck*

SUBJECT: HTCT Testing from October 1, 2023 through March 31, 2024

Attached is a summary of testing activity this period.

DJB/djb/mem24-012.djb.doc

cc: Jeff Clark

Sean Moyer

HTCT Surveillance Panel

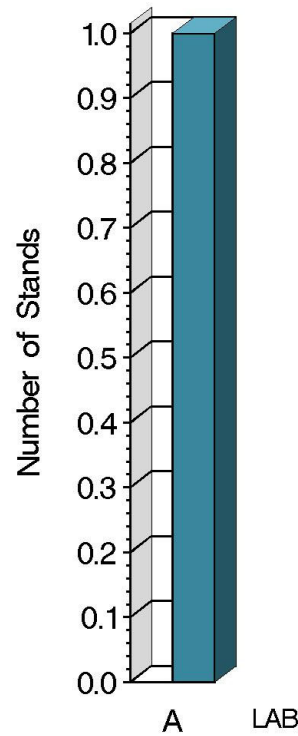
<https://www.astmtmc.org/ftp/docs/gear/htct/semiannualreports/htct-04-2024.pdf>

Distribution: email

High Temperature Cyclic Transmission

	Reporting Data	Calibrated on 3-31-24
Number of Labs	1	1
Number of Stands	1	1

BY-LAB STAND
DISTRIBUTION



Report Period: ■ Current

10:57:41 22APR2024

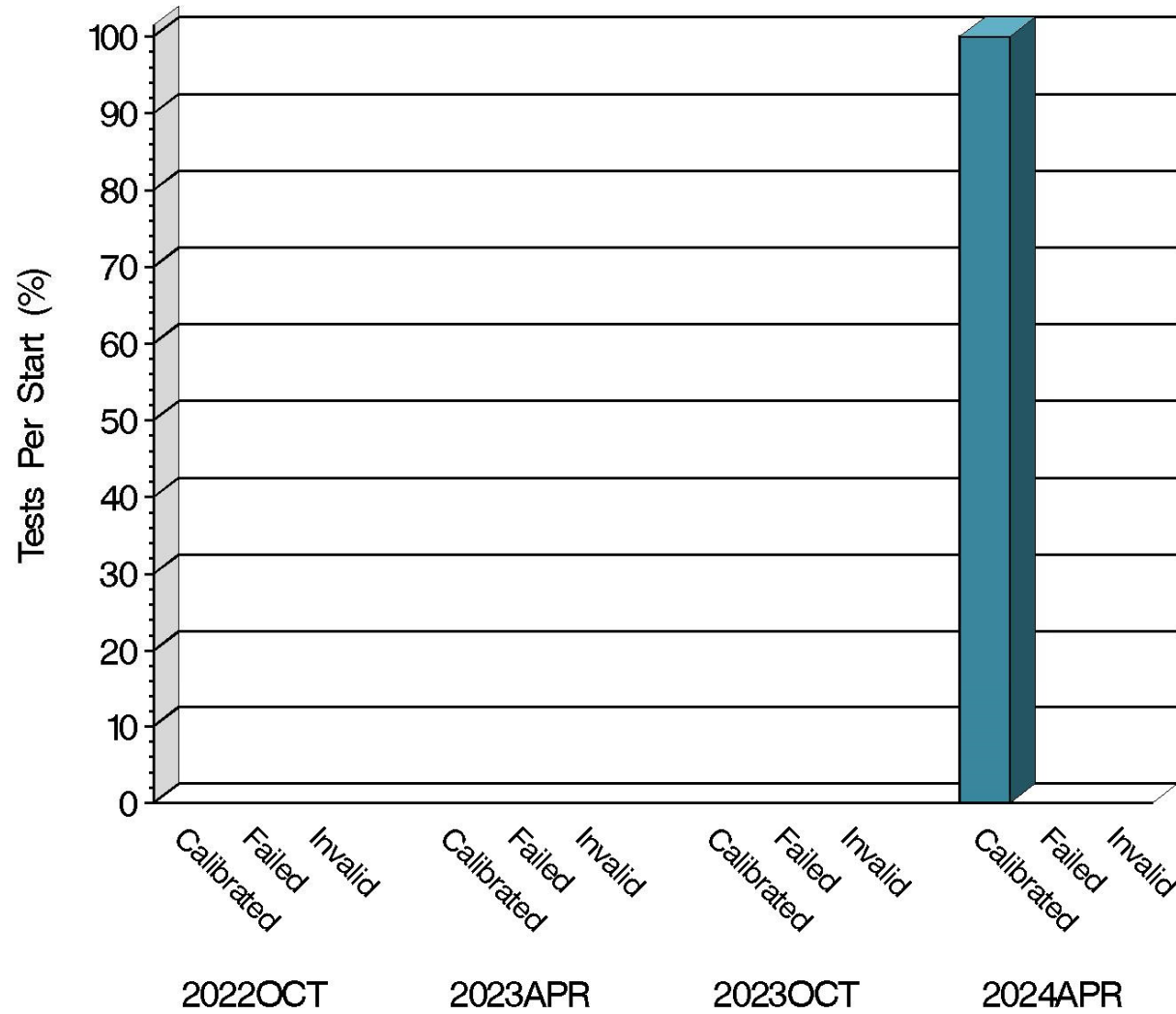
High Temperature Cyclic Transmission

Test Distribution by Oil and Validity

				Totals	
		155	155-1	Last Period	This Period
Accepted for calibration	AC	0	1	0	1
Rejected (Mild)	OC	0	0	0	0
Rejected (Severe)	OC	0	0	0	0
Rejected (Precision)	OC	0	0	0	0
Invalidated calibration	LC	0	0	0	0
Aborted	XC	0	0	0	0
Accepted information run	NI	0	0	0	0
Total		0	1	0	1

High Temperature Cyclic Transmission

CALIBRATION ATTEMPT SUMMARY



Resolution

Report Period

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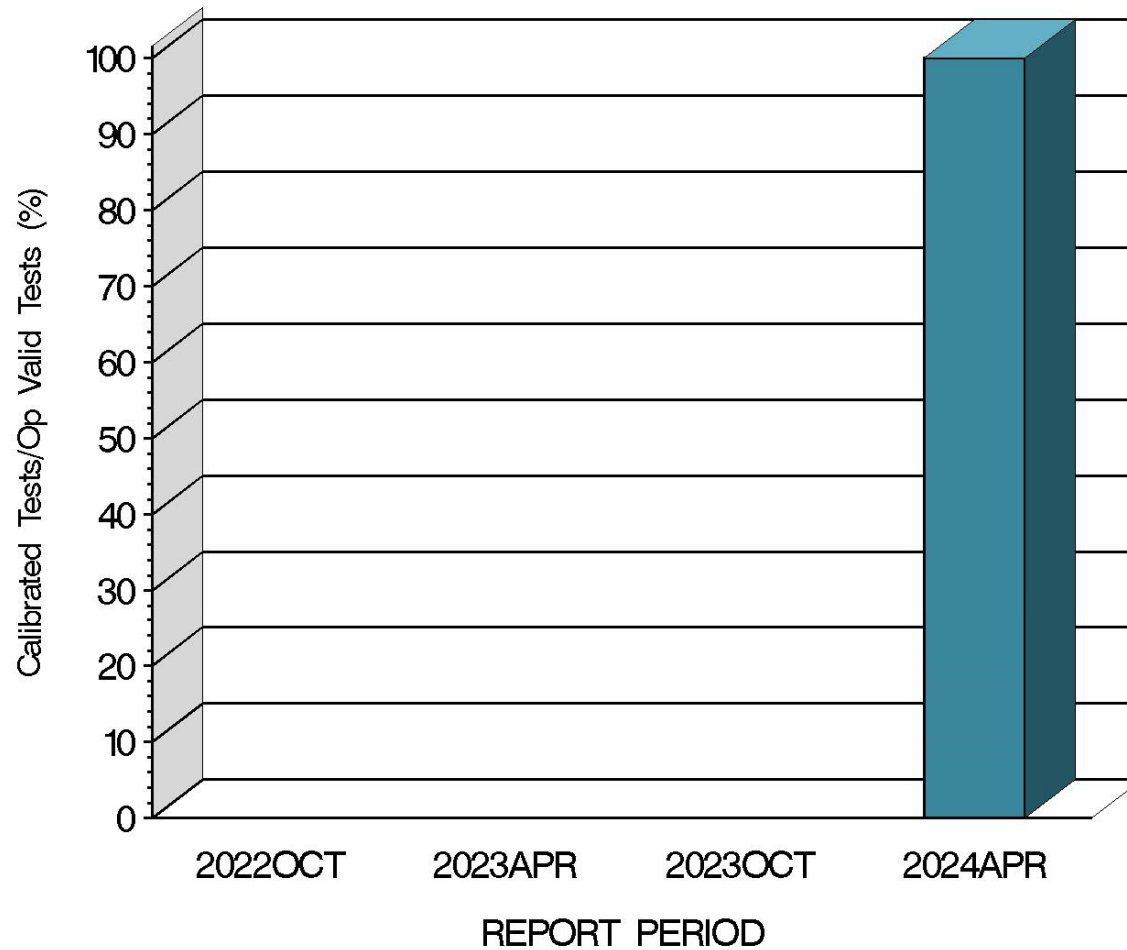
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OPERATIONALLY VALID TESTS
MEETING ACCEPTANCE CRITERIA



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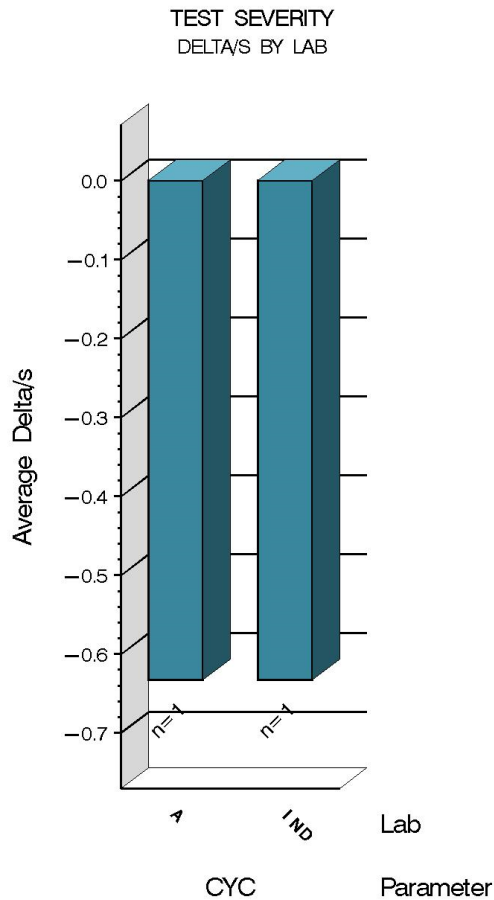
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High Temperature Cyclic Transmission

CAUSES FOR LOST TESTS

		Oil			Validity			Loss Rate		
Lab	Cause	154	155	155-1	RC	LC	XC	Lost	Starts	%
	No tests were lost this period.							0	1	0%
	Lost	0	0	0	0	0	0			
	Starts	0	0	1	1	1	1			
	%	0%	0%	0%	0%	0%	0%			

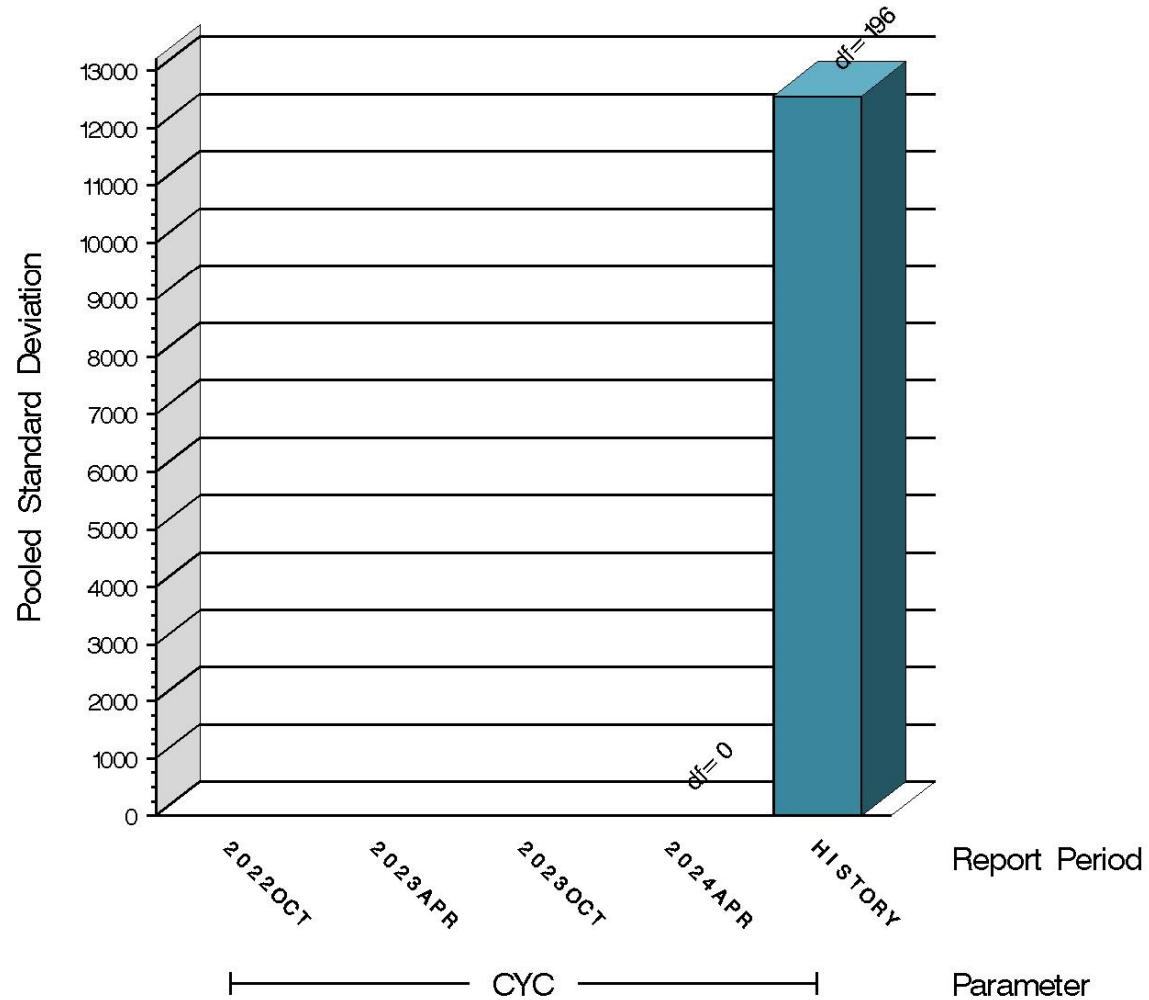
High Temperature Cyclic Transmission



Average Δ/s by Lab		
Lab	n	CYC
A	1	-0.63
Industry	1	-0.63
Shift	1	-6117.38

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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 CYC result reported this period was outside of the EWMA warning limit in the severe direction. The test still received calibration due to the Shewhart severity limit not being exceeded.

Precision

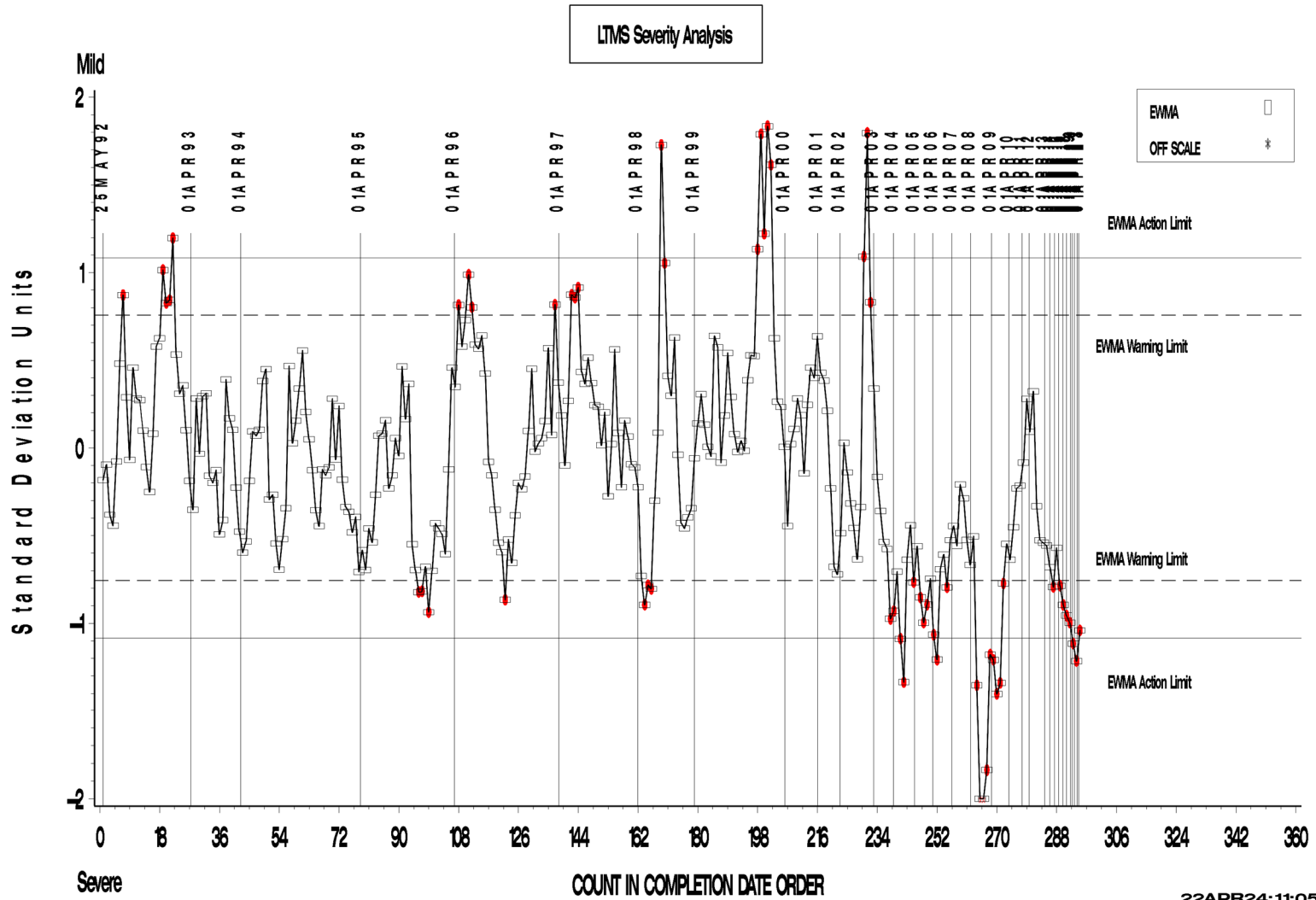
The CYC result reported this period did not result in any precision alarms.

Industry control charts follow.

High Temperature Cyclic Transmission

HTCT INDUSTRY OPERATIONALLY VALID DATA

END OF TEST CYCLES



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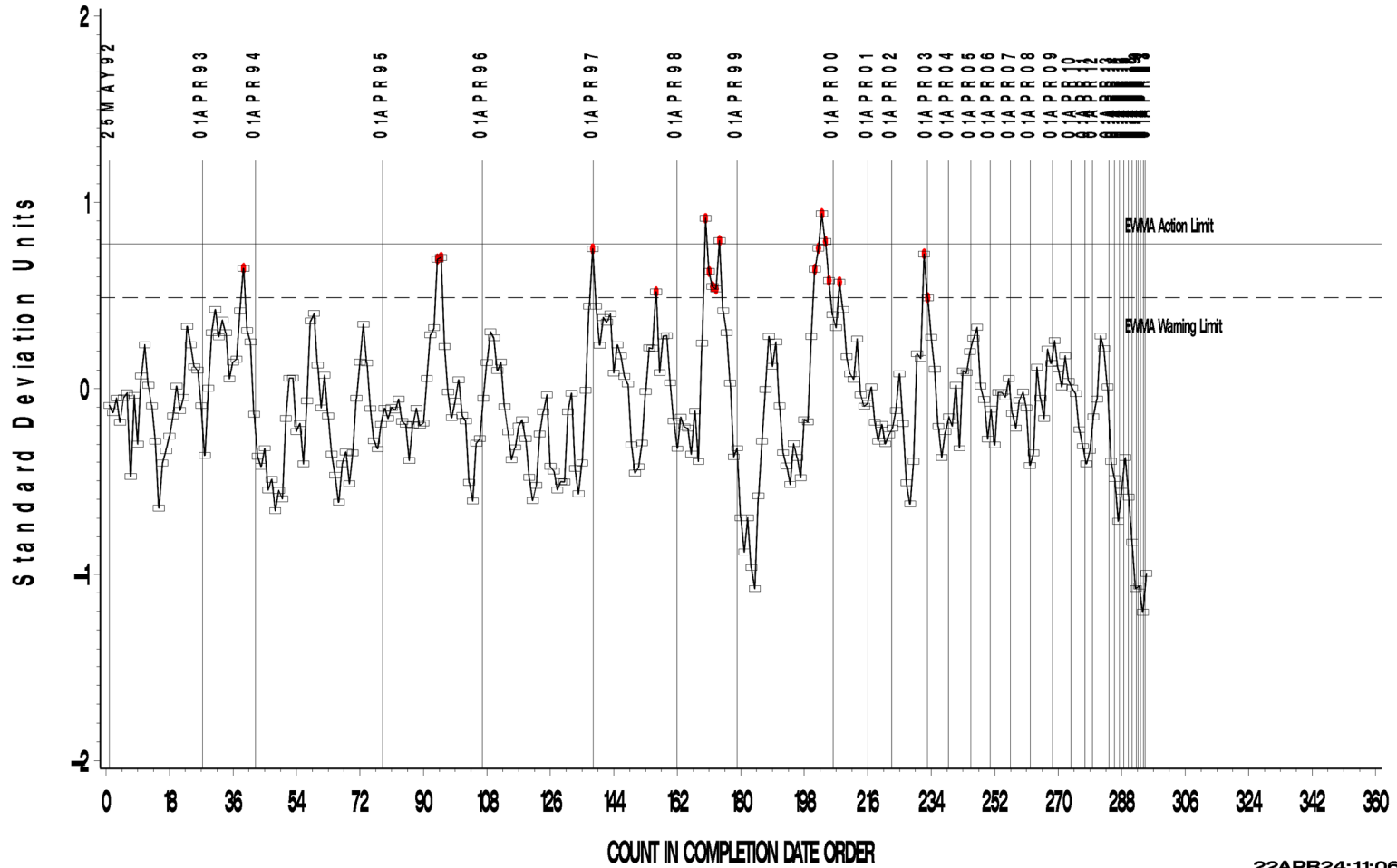
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HTCT INDUSTRY OPERATIONALLY VALID DATA

END OF TEST CYCLES

LTMS Precision Analysis



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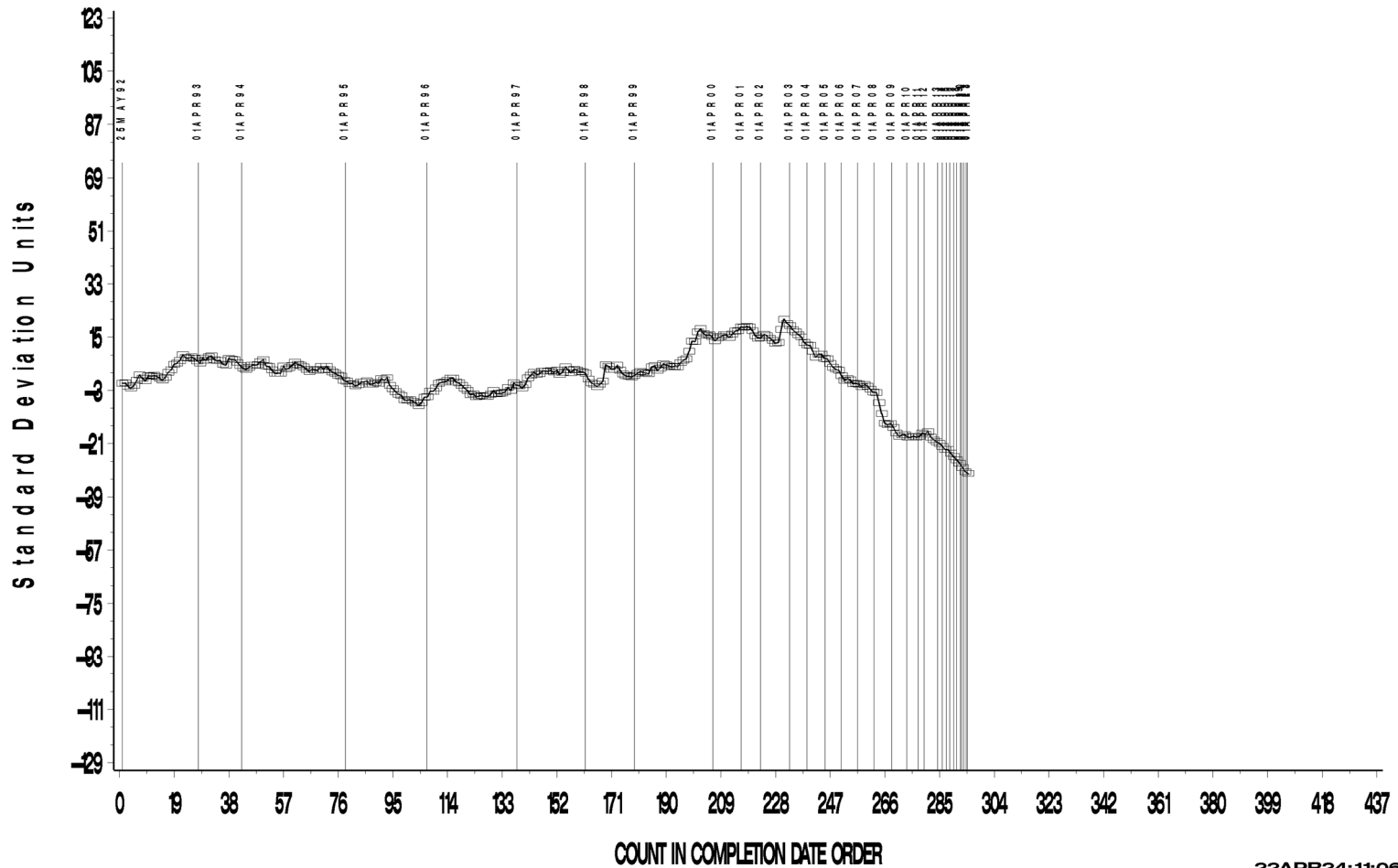
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HTCT INDUSTRY OPERATIONALLY VALID DATA

END OF TEST CYCLES

CUSUM Severity Analysis



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TIMELINE ADDITIONS

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

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LAB VISITS

No lab visits were conducted during this period.

INFORMATION LETTERS

No information letters issued during this reporting period.

High Temperature Cyclic Transmission

STATUS OF REFERENCE OIL SUPPLY

Oil	Tests	Year	Blend Quantity	TMC Inventor	Estimated Life	Comment
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-33-1, L-37, L-60-1 and L-37-1). Oil 154 is the discrimination oil used only for new hardware approval. Reference oil 155-2 is a reblend of 155-1 and has not gone through a surveillance panel approval process yet.