



Test Monitoring Center

203 Armstrong Drive, Freeport, PA 16229, USA

www.astmtmc.org
412-365-1000

MEMORANDUM: 21-043

DATE: October 27, 2021

TO: Rebecca Warden, Chairman, High Temperature Cyclic Durability Test
Surveillance Panel

FROM: Dylan Beck *Dylan Beck*

SUBJECT: HTCT Testing from April 1, 2021 through September 30, 2021

Attached is a summary of testing activity this period.

DJB/djb/mem21-043.djb.doc

cc: Frank Farber
Jeff Clark

HTCT Surveillance Panel

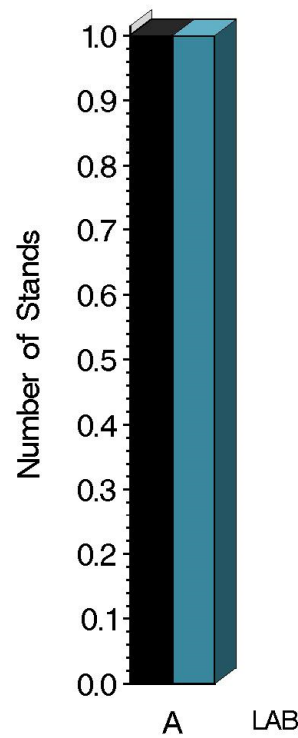
<https://www.astmtmc.org/ftp/docs/gear/htct/semiannualreports/htct-10-2021.pdf>

Distribution: email

High Temperature Cyclic Transmission

	Reporting Data	Calibrated on 9-30-21
Number of Labs	1	1
Number of Stands	1	1

BY-LAB STAND
DISTRIBUTION



Report Period: ■ Current ■ Previous

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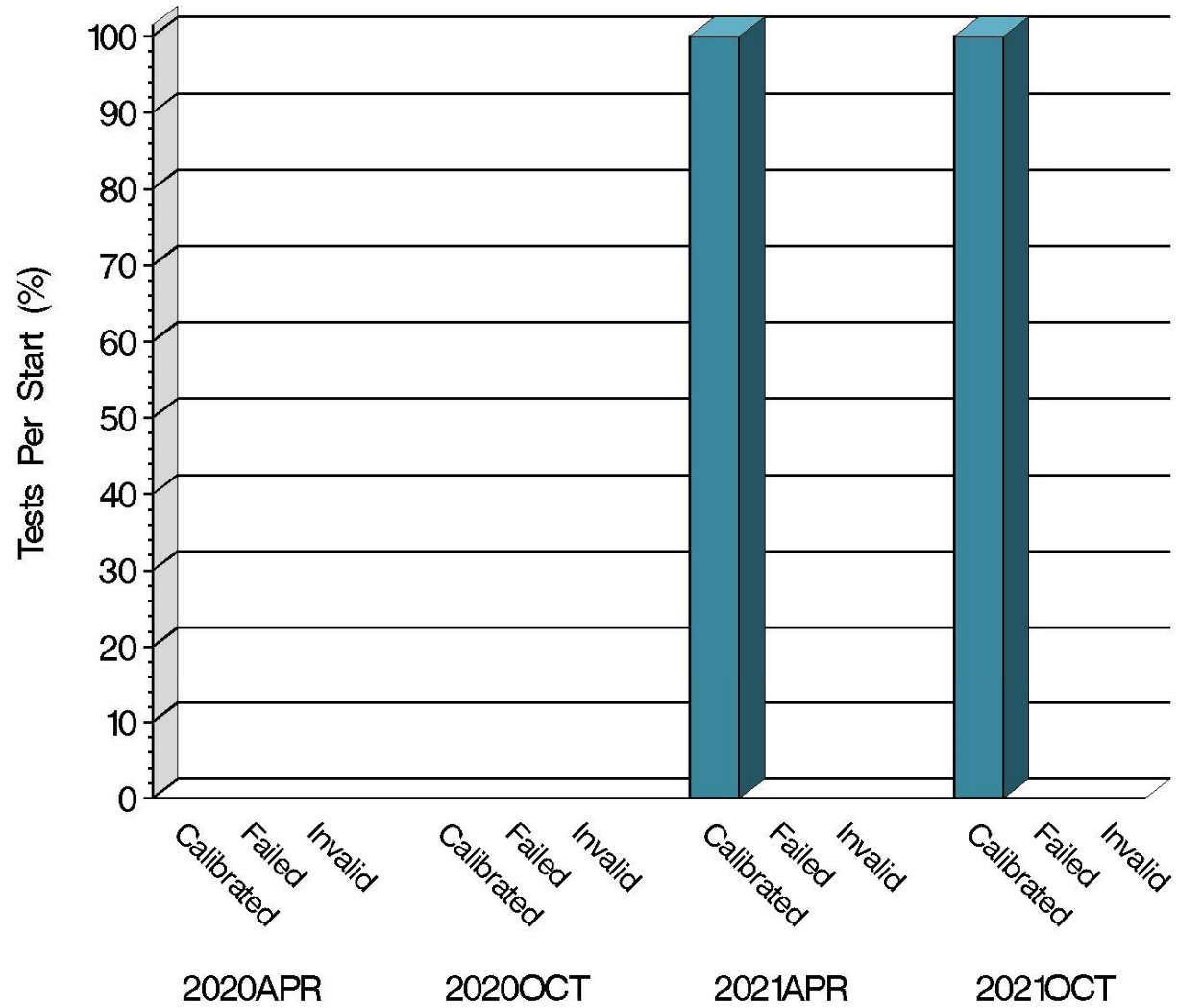
High Temperature Cyclic Transmission

Test Distribution by Oil and Validity

					Totals	
		154	155	155-1	Last Period	This Period
Accepted for calibration	AC	0	0	1	1	1
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
Accepted information run	NI	0	0	0	0	0
Total		0	0	1	1	1

High Temperature Cyclic Transmission

CALIBRATION ATTEMPT SUMMARY



Resolution

Report Period

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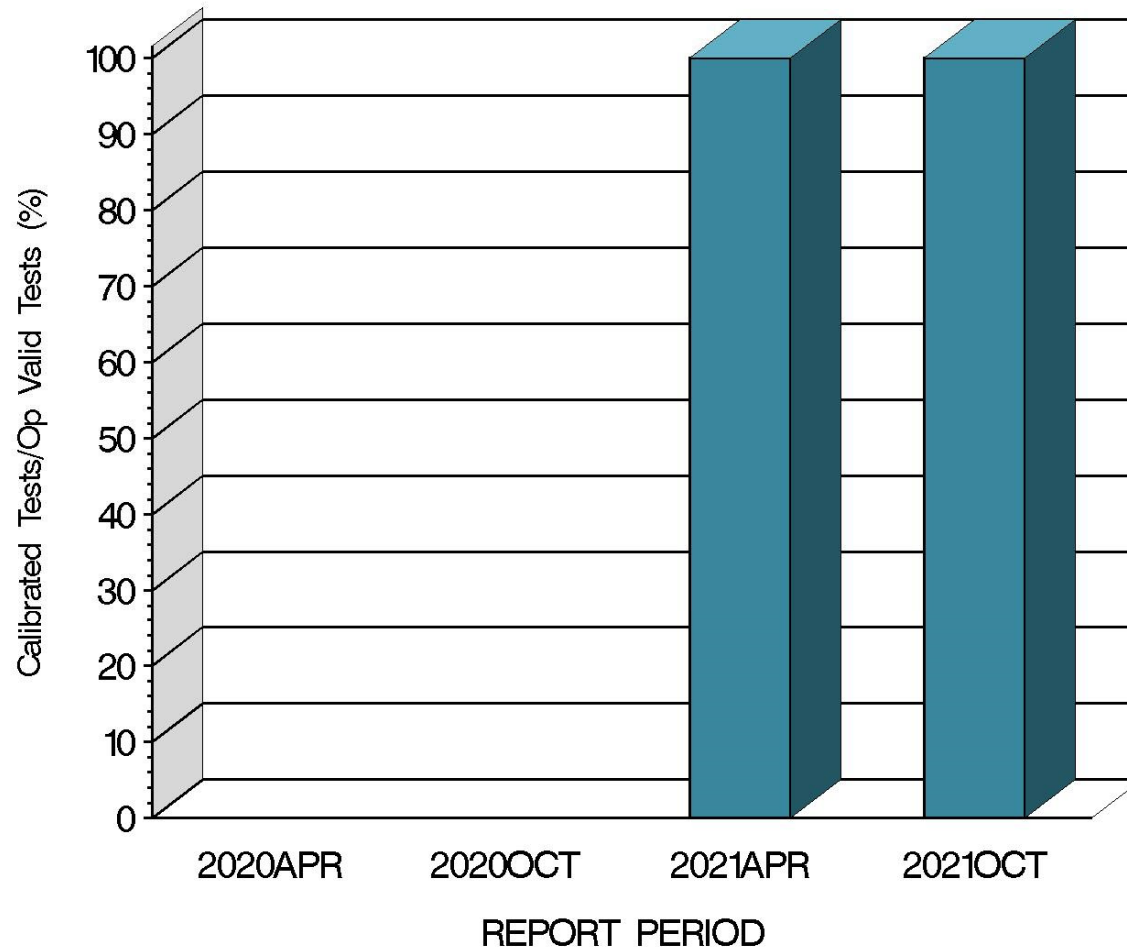
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High Temperature Cyclic Transmission

OPERATIONALLY VALID TESTS
MEETING ACCEPTANCE CRITERIA



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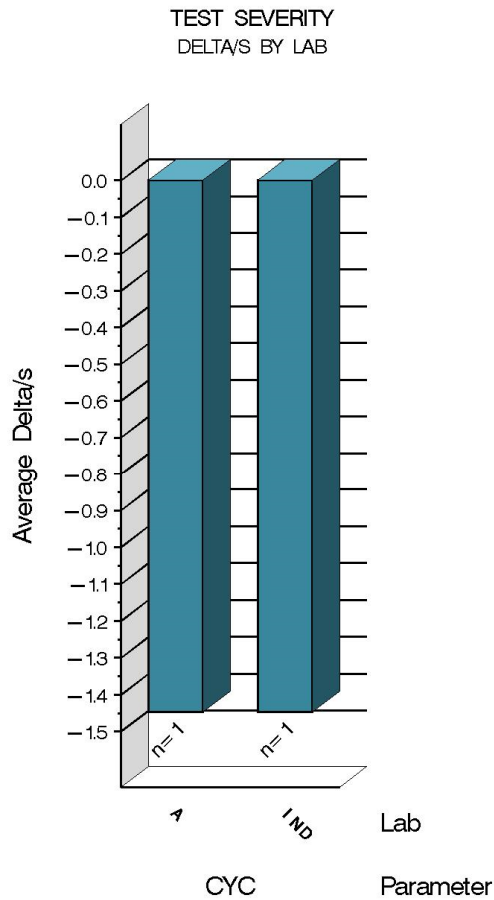
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CAUSES FOR LOST TESTS

		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%			

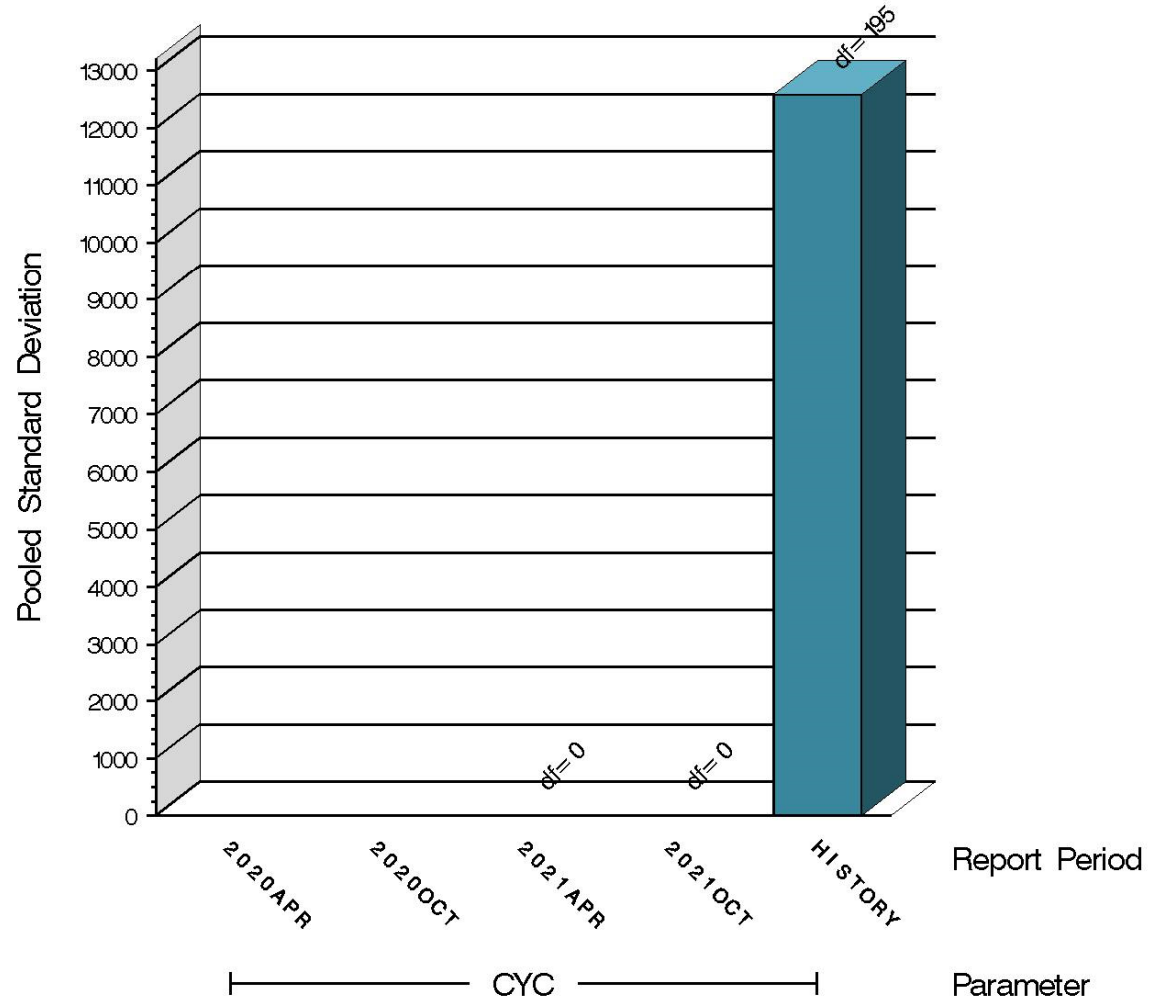
High Temperature Cyclic Transmission



Average Δ/s by Lab		
Lab	n	CYC
A	1	-1.45
Industry	1	-1.45
Shift	1	-13981.02

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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 action limit in the severe direction. The test still received calibration due to the Shewhart severity limit not being exceeded.

Precision

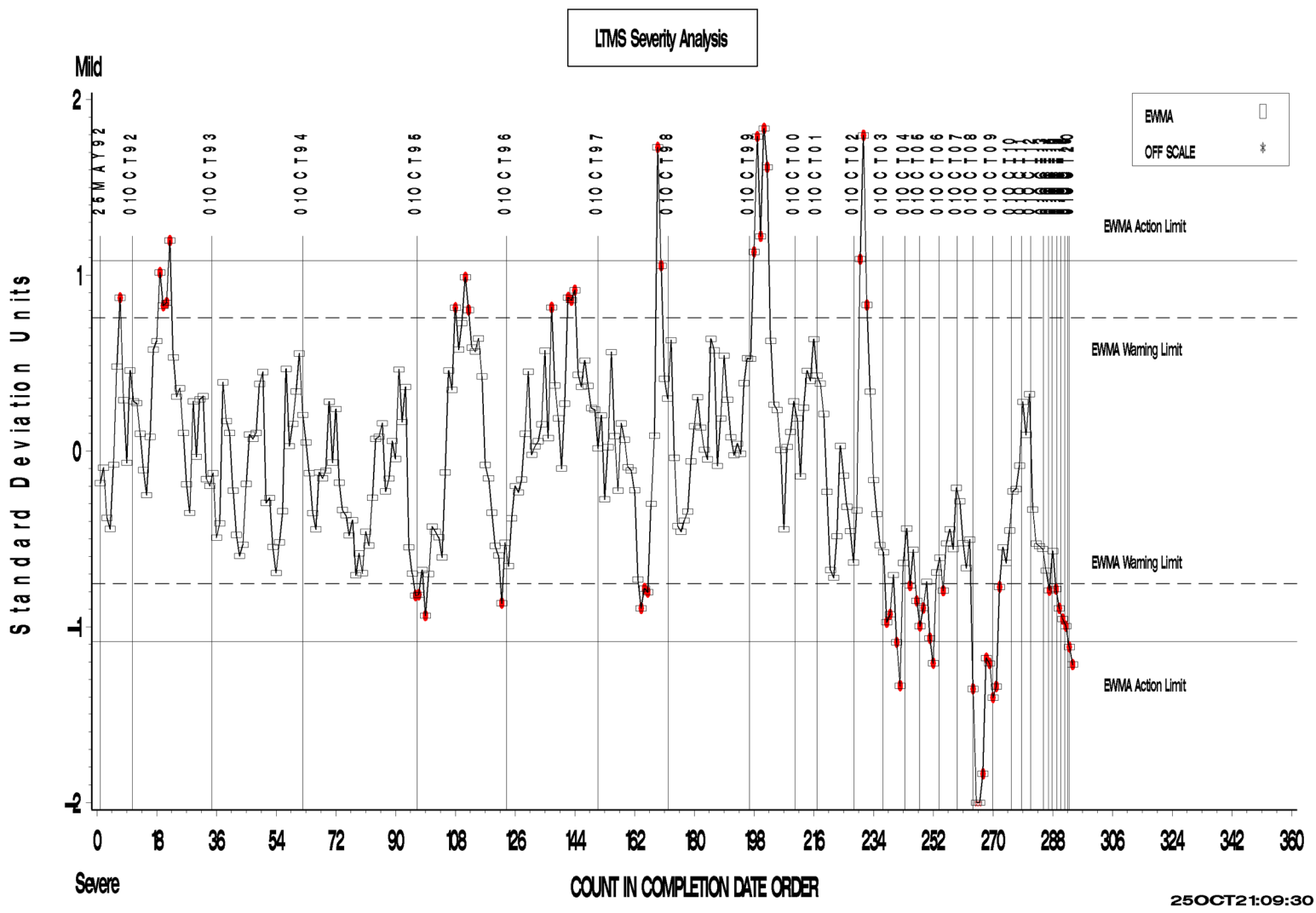
The CYC result reported this period did not result in any precision alarms.

Industry control charts follow.

High Temperature Cyclic Transmission

HTCT INDUSTRY OPERATIONALLY VALID DATA

END OF TEST CYCLES



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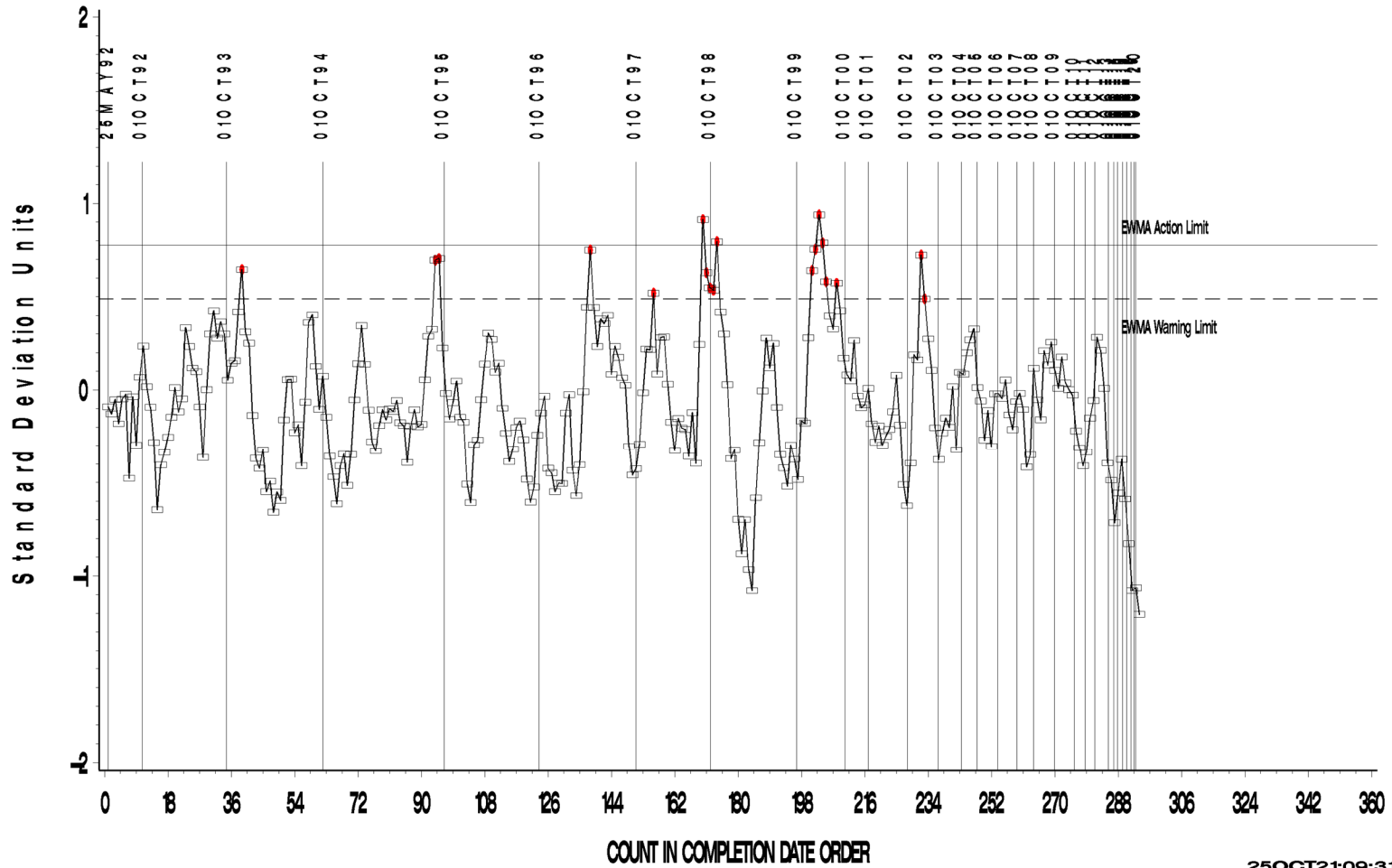
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END OF TEST CYCLES

LTMS Precision Analysis



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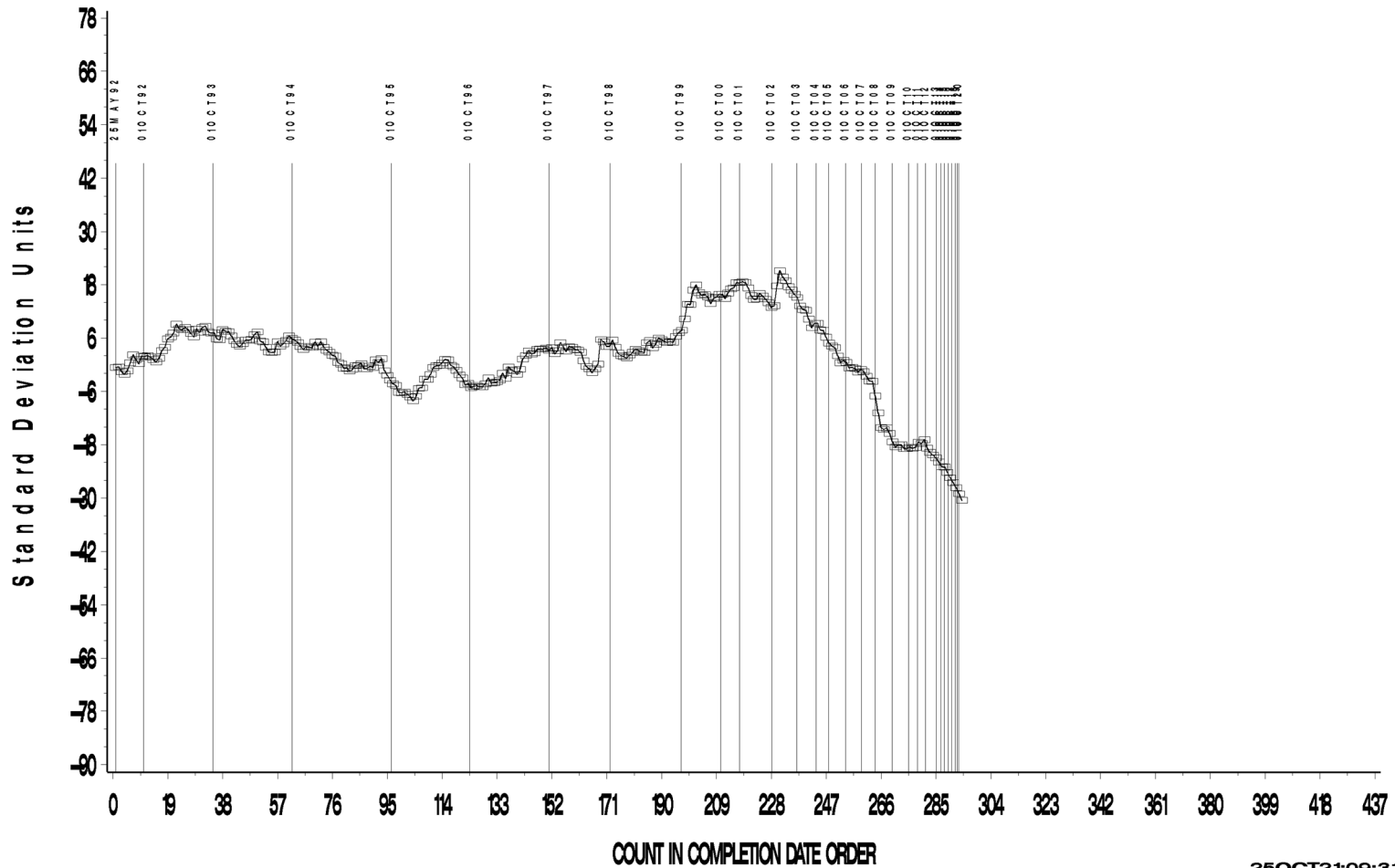
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HTCT INDUSTRY OPERATIONALLY VALID DATA

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	Cans @ Labs	@ TMC	Gallons
		Cans	
154	2	5	55.0
155	0	2	27.5
155-1	2	3	32.8
Total	4	10	115.3

The TMC quantity remaining presumes usage only for HTCT testing. Oil 155/155-1 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.