

Test Monitoring Center

@ Carnegie Mellon University 6555 Penn Avenue, Pittsburgh, PA 15206, USA http://astmtmc.cmu.edu 412-365-1000

MEMORANDUM: 13-020

DATE: April 16, 2013

TO: Brian Koehler, Chairman, High Temperature Cyclic Durability Test

Surveillance Panel

FROM: Scott Parke

SUBJECT: HTCT Testing from October 1, 2012 through March 31, 2013

Please find attached a summary of testing activity this period.

SDP/sdp/mem13-020.sdp.doc

cc: Frank Farber Jeff Clark

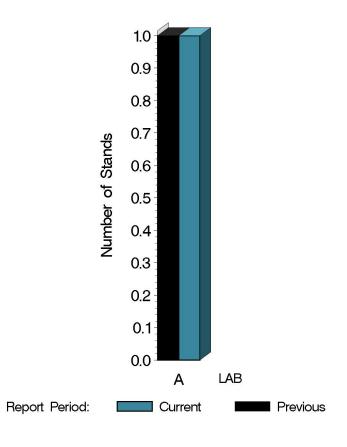
HTCT Surveillance Panel

ftp://ftp.astmtmc.cmu.edu/docs/gear/htct/semiannualreports/htct-04-2013.pdf

Distribution: email

	Reporting Data	Calibrated on 3-31-13
Number of Labs	1	1
Number of Stands	1	1

BY-LAB STAND DISTRIBUTION



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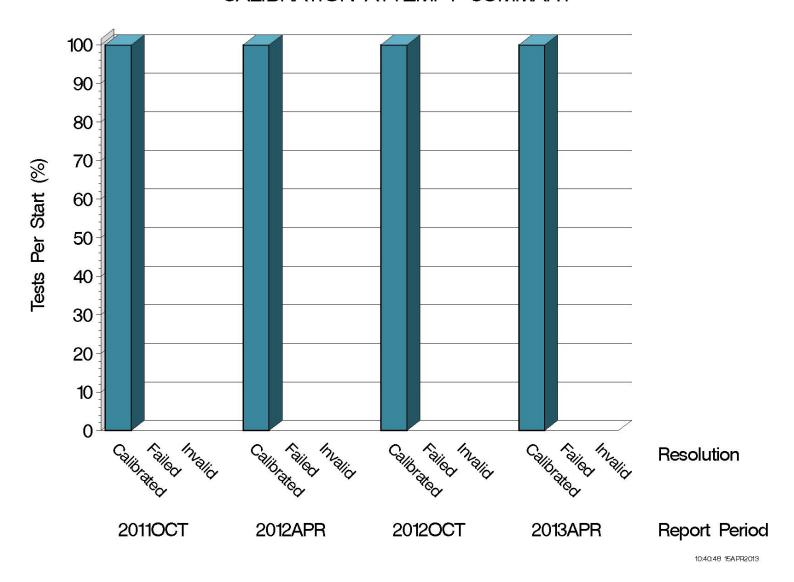


Test Distribution by Oil and Validity

				Totals		
		150-2	155	155-1	Last Period	This Period
Accepted for calibration	AC	0	1	2	1	3
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	1	0
Total		0	1	2	2	3



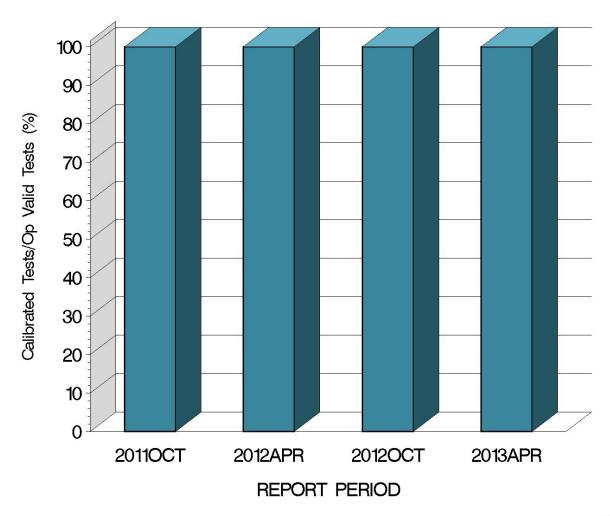
CALIBRATION ATTEMPT SUMMARY







OPERATIONALLY VALID TESTS MEETING ACCEPTANCE CRITERIA



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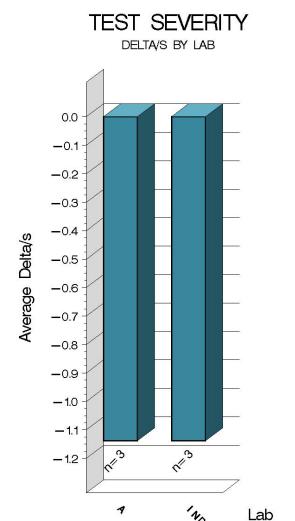




High Temperature Cyclic Transmission CAUSES FOR LOST TESTS

			Oil			Validity			Loss Rate		
Lab	Cause		150-2	155	155-1	RC	LC	XC	Lost	Starts	%
	No tests were lost this period.								0	3	0%
		Lost	0	0	0	0	0	0			
		Starts	0	1	2	3	3	3			
		%	0%	0%	0%	0%	0%	0%			





CYC

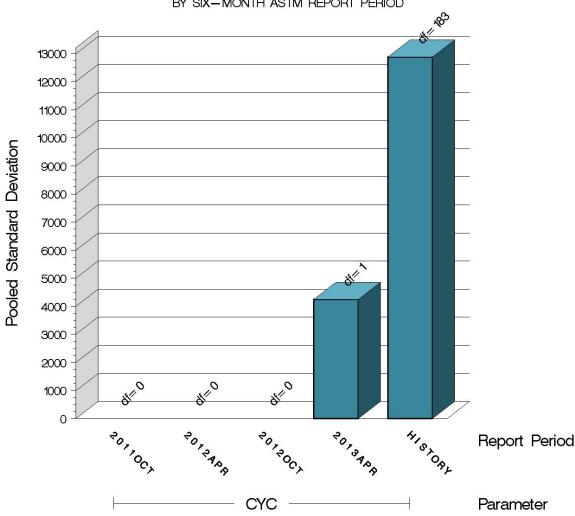
Parameter

Average ∆/s by Lab				
Lab	n	CYC		
А	3	-1.14		
Industry	3	-1.14		
Shift	3	-11004		



TEST PRECISION

POOLED STANDARD DEVIATION
BY SIX-MONTH ASTM REPORT PERIOD



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SUMMARY OF SEVERITY & PRECISION

Severity

CYC severity remained within control chart limits over the three tests reported this period.

Precision

CYC precision remained within control chart limits throughout this period.

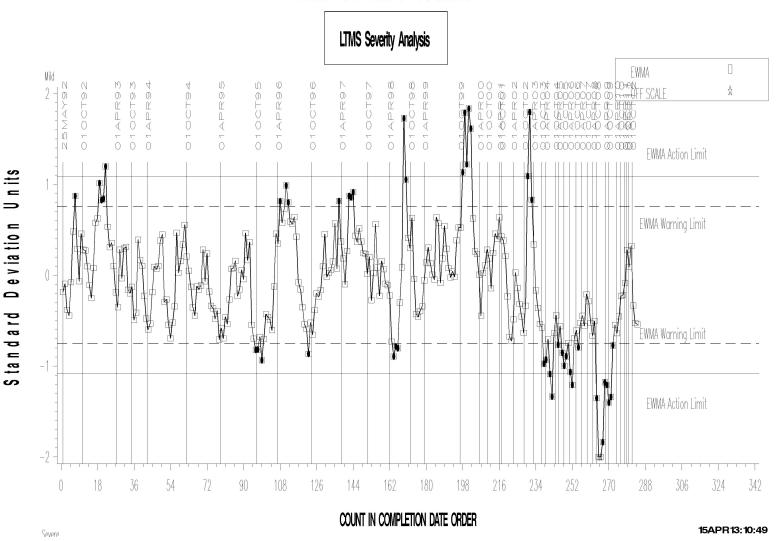
Industry control charts follow.





HTCT INDUSTRY OPERATIONALLY VALID DATA

END OF TEST CYCLES



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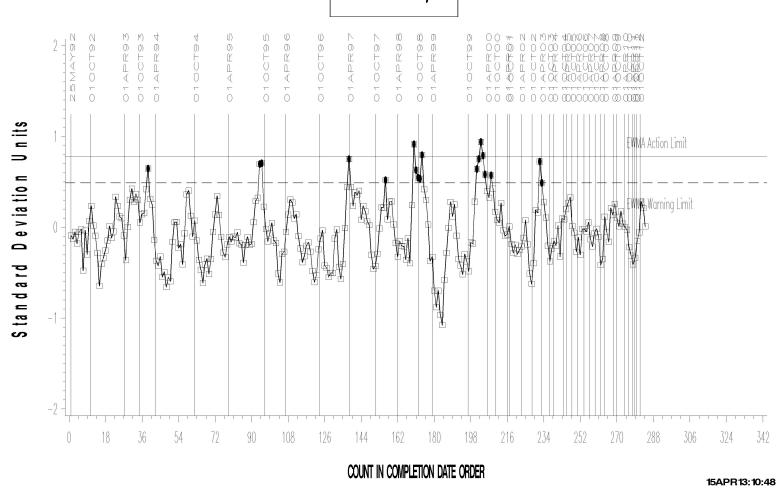
http://astmtmc.cmu.edu



HTCT INDUSTRY OPERATIONALLY VALID DATA

END OF TEST CYCLES

LTMS Precision Analysis



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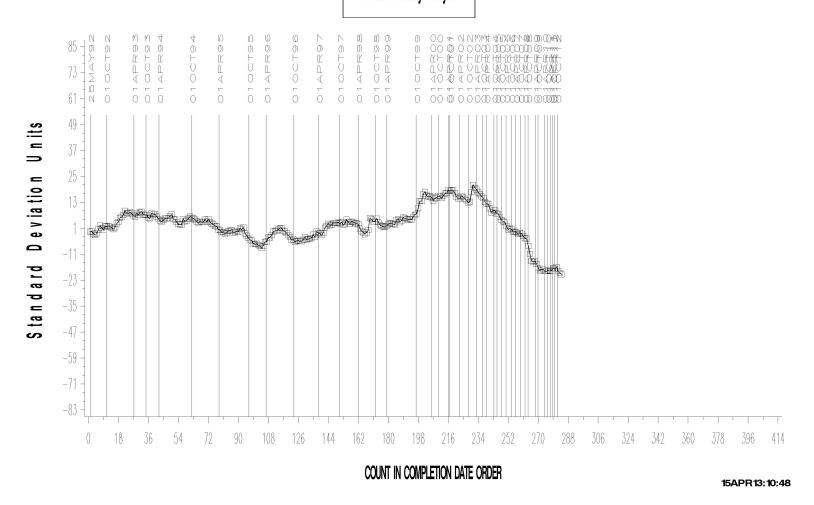
http://astmtmc.cmu.edu



HTCT INDUSTRY OPERATIONALLY VALID DATA

END OF TEST CYCLES

CUSUM Severity Analysis







TIMELINE ADDITIONS

Effective Date	Information Letter	Event	
20130206	13-1	Documentation of tests using FSB 431-003 range clutch synchronizer components as "CONFIGURATION3".	



LAB VISITS

No HTCT lab visits were conducted during this period.

INFORMATION LETTERS

Information Letter 13-1 was issued during this period to add instructions for documenting tests using FSB 431-003 range clutch synchronizer components as "CONFIGURATION3".





High Temperature Cyclic Transmission STATUS OF REFERENCE OIL SUPPLY

		@ TMC		
Oil	Cans @ Labs	Cans	Gallons	
150-2	0	3	33.7	
154	2	16	176.0	
155	0	3	36.4	
155-1	2	36	406.8	
Total	4	58	652.8	

The TMC quantity remaining presumes usage only for HTCT testing. Oil 155/155-1 is also used in other test areas (most notably L-37 and L-37-1). The reblended oil 155-1 was introduced last period. A total of 3 tests-worth of oil 150-2 remain. Oil 154 is the replacement and is ready for introduction. The Surveillance Panel has not yet devised a scheme for introducing this oil.



