A Program of ASTM International

Test Monitoring Center

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http://astmtmc.cmu.edu
412-365-1000

MEMORANDUM: 12-004

DATE: April 16, 2012

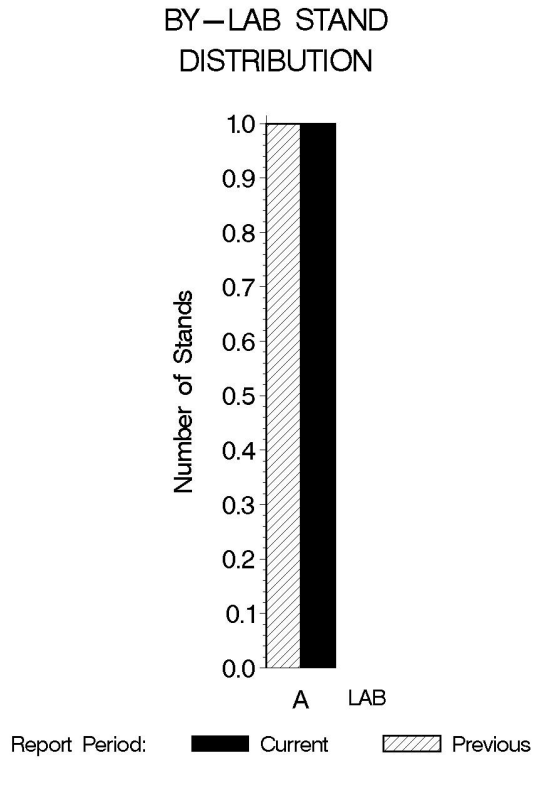
TO: Brian Koehler, Chairman, High Temperature Cyclic Durability Test Surveillance Panel

FROM: Scott Parke

SUBJECT: HTCT Testing from October 1, 2011 through March 31, 2012

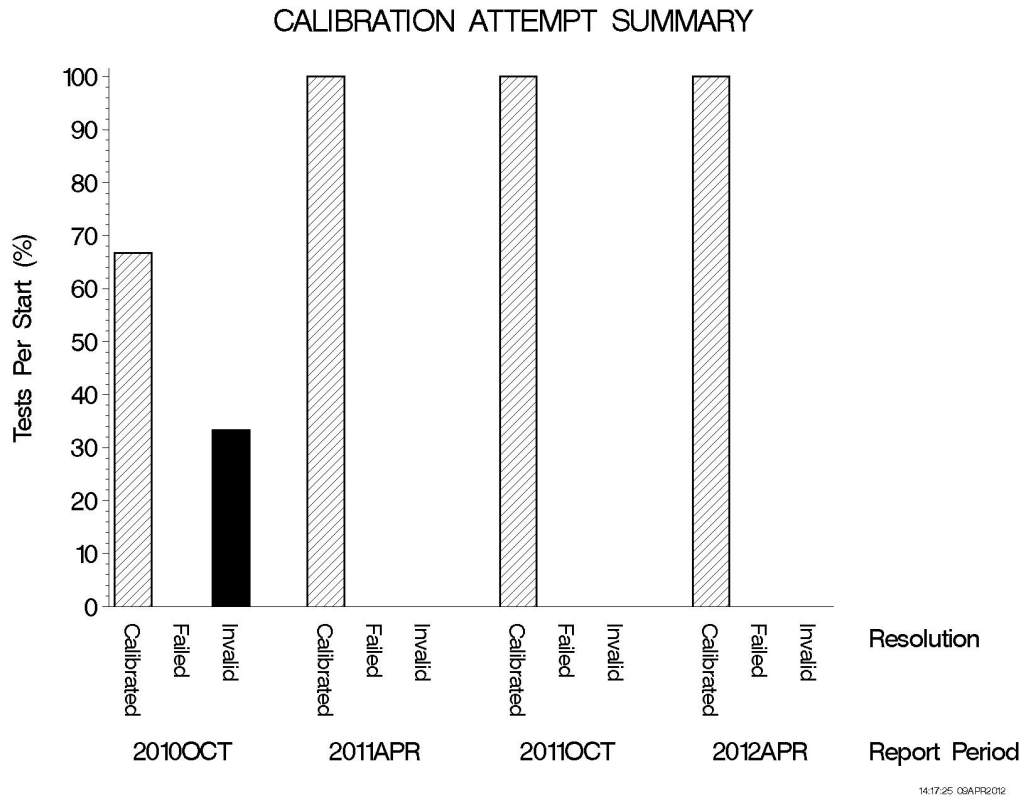
One HTCT test was reported to the Test Monitoring Center during the period from October 1, 2011 through March 31, 2012. Following is a summary of testing activity this period.

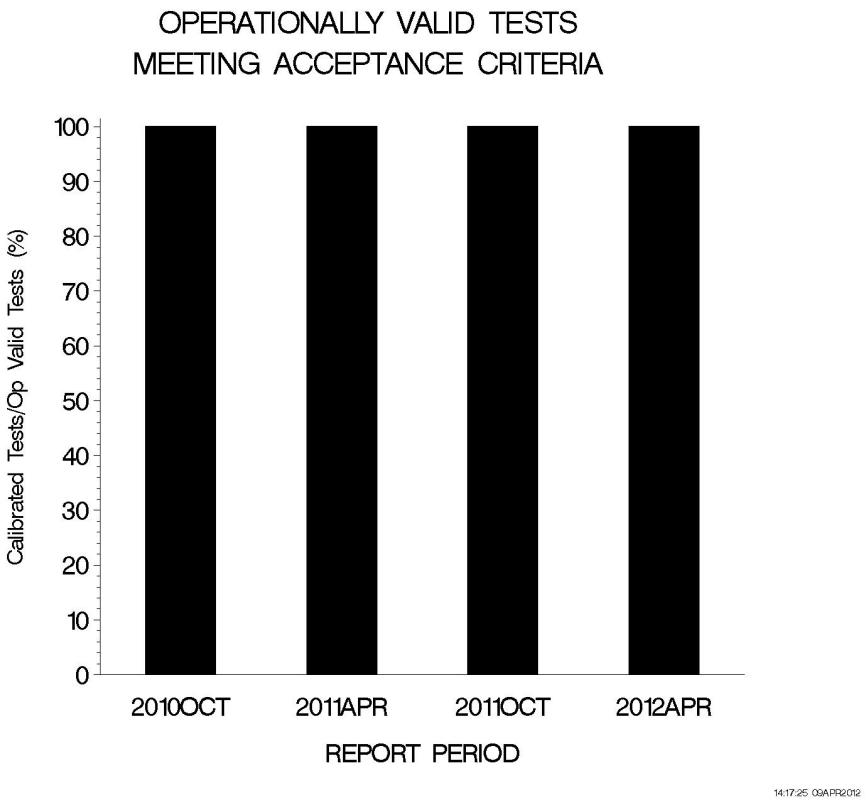
	Reporting Data	Calibrated on 3-31-12
Number of Labs	1	1
Number of Stands	1	1



Test Distribution by Oil and Validity

		150-2	154	155	Totals Last Period	Totals 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	NN	0	0	0	0	0
Total		0	0	1	1	1

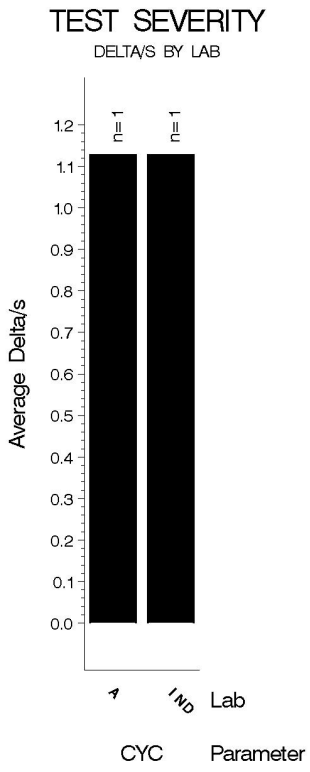


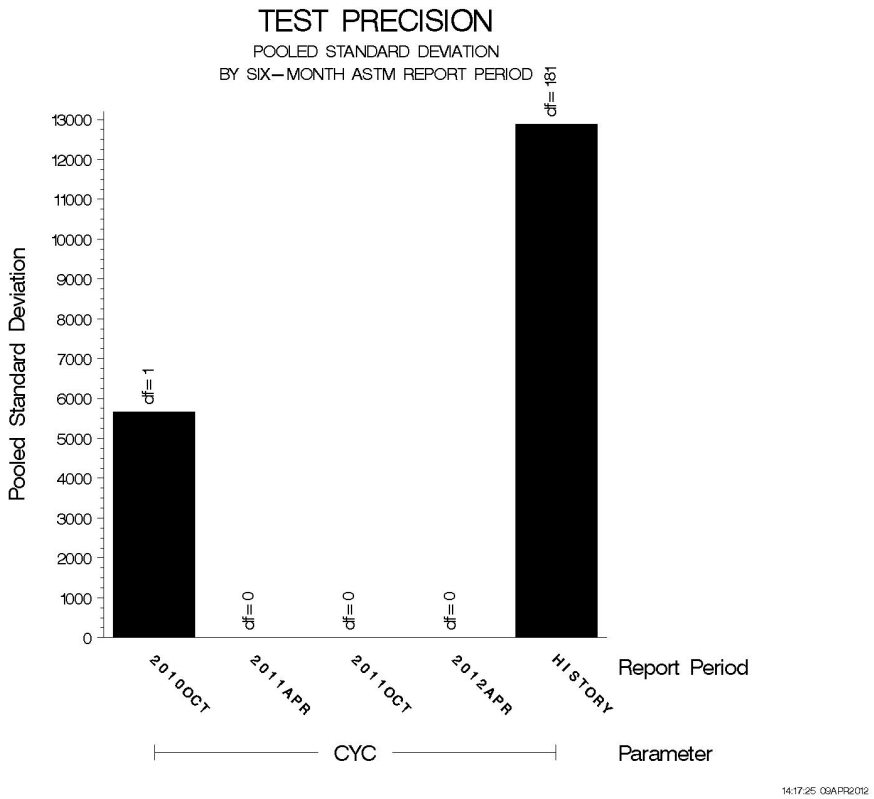

OPERATIONALLY VALID TESTS
MEETING ACCEPTANCE CRITERIA
Calibrated Tests/Op Valid Tests (%)
100
90
80
70
60
50
40
30
20
10
0
2010OCT
2011APR
2011OCT
2012APR
REPORT PERIOD
14:17:25 09APR2012

CAUSES FOR LOST TESTS:

			Oil			Validity			Loss Rate		
Lab	Cause		150-2	154	155	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%			

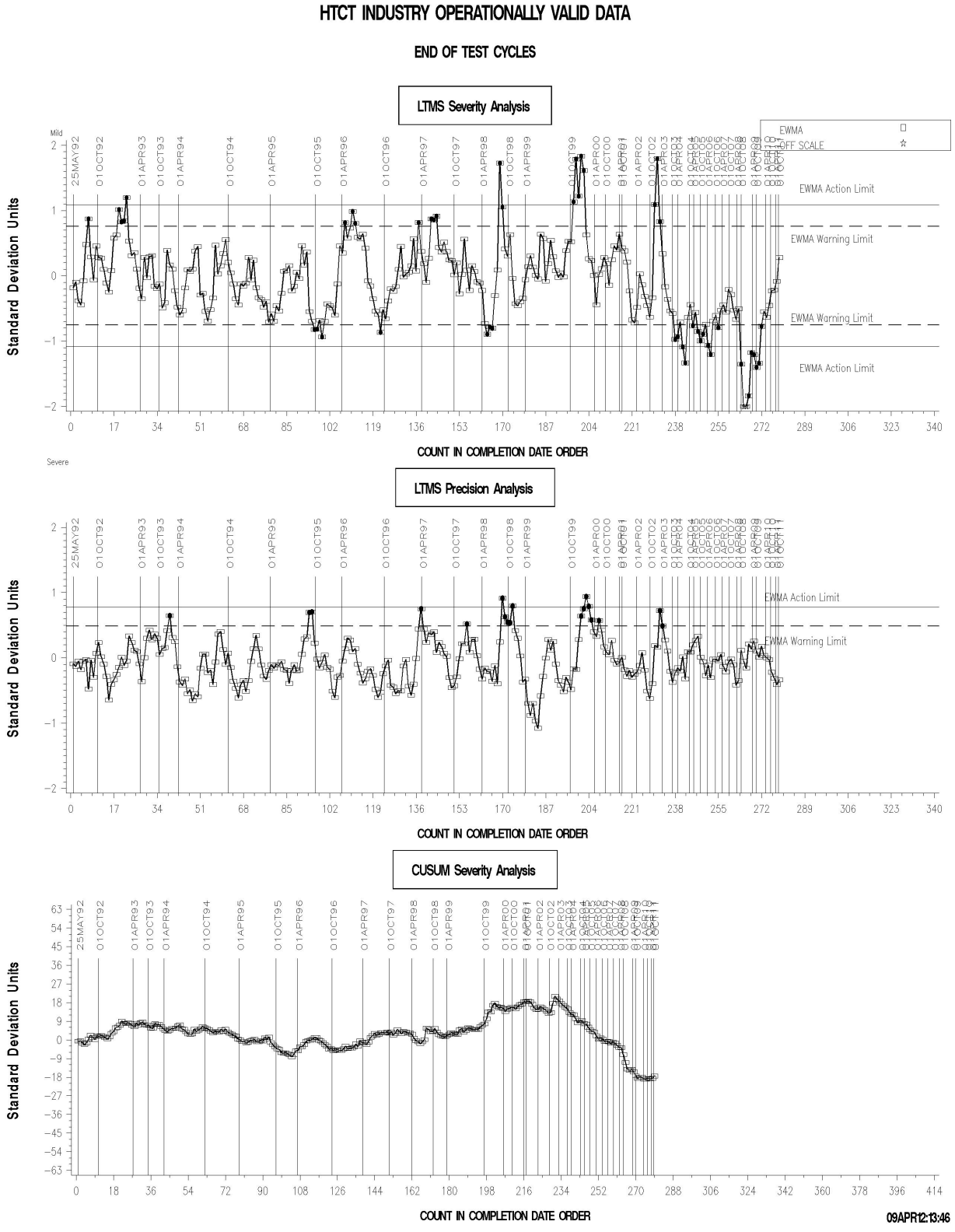
Average Δ/s by Lab		
Lab	n	CYC
A	1	1.13
Industry	1	1.13
Shift	1	10896




TEST PRECISION
POOLED STANDARD DEVIATION
BY SIX-MONTH ASTM REPORT PERIOD
Pooled Standard Deviation
13000
12000
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
df= 1
df= 0
df= 0
df= 0
df= 181
2010OCT
2011APR
2011OCT
2012APR
HISTORY
Report Period
CYC
Parameter
14:17:25 09APR2012

INDUSTRY CONTROL CHART:

The industry control chart is shown below. CYC is currently within both severity and precision limits. Average Δ/s reported this period was 1.13.



TIMELINE OF SIGNIFICANT EVENTS IN THE HISTORY OF THE HTCT TEST:

Effective Date	Information Letter	Event
19960701		Surveillance panel approved acceptance bands and targets
19961210	97-1	Change to allow replacement of main box shift rail cover with aluminum plate
19970324	97-1	Forms and data dictionary changes, version 19970128
19970918	97-2	Replacement of appendix x1 with annex a5 (editorial changes)
19971110	97-3	Revison to shift time definition and inclusion of shift time plot
19980209	98-1	Revison to shift time definition and inclusion of shift time plot
19980215		First test on new sychronizer assembly reported
19980626	98-2	Defined acceptable hardare configuations, revised forms and data dictionary to document hardware configuration utilized
19990413	99-1	Clarified the calibration period, allows non-reference oil tests to start up to and including
19990413	99-1	The last day of the calibration period.
19990625	99-2	Redefined acceptable hardware configurations
20000613	00-1	Requires use of TESTWMPC5460 friction plates
20020920	02-1	Failing reference oil run requirement
20020920	02-1	Test hardware correction and revisions
20030916	03-1	Report Forms and Data Dictionary
20040101	03-1	Cleaning Solvent Specification
20041203	04-1	One Quart Test Oil EOT Save Requirement Dropped
20050221	05-1	Revised Solvent Specification
20050504	05-2	Surveillance Panel Use of Donated Reference Oil Test Programs
20050504	05-2	Guidelines for Shortening or Lengthening Reference Oil Calibration Periods
20050504	05-2	Updated Test Precision
20050504	05-2	Rounding Test Results Using ASTM E 29
20050504	05-2	Piston, High Low Range Shift Outside Diameter Specification
20050504	05-2	Company Name Change
20060911		Reference oil targets set using only configuration 2 data
20090327	09-1	Revision to Percent Deviation Calculation
20090519	09-2	Shift Time RPM Correction
20091002	09-3	P/Ns revised to Volvo part numbers.
20110601	11-1	Remove requirement for mailing paper test report to TMC.

TMC LAB VISITS:
No HTCT lab visits were conducted this report period.

INFORMATION LETTERS:
No information letters were issued this period.

STATUS OF REFERENCE OIL SUPPLY:
At the end of this report period, the testing oil supply stood as outlined in the table below:

		@ TMC	
Oil	Cans @ Labs	Cans	Gallons
150-2	3	3	33.7
154	4	16	176.0
155	0	9	102.9
155-1	3	40	446.8
Total	10	68	759.3

The TMC quantity remaining presumes usage only for HTCT testing. Oil 155 is also used in other test areas. TMC has recently acquired a reblend of oil 155. This oil is ready for introduction. A total of 6 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 the new oils.

SDP/sdp/mem12-004.sdp.doc
cc: Frank Farber
Jeff Clark
HTCT Surveillance Panel
ftp://ftp.astmtmc.cmu.edu/docs/gear/htct/semiannualreports/htct-04-2012.pdf

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