

Test Monitoring Center

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MEMORANDUM: 10-031

DATE: June 29, 2010

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

Surveillance Panel

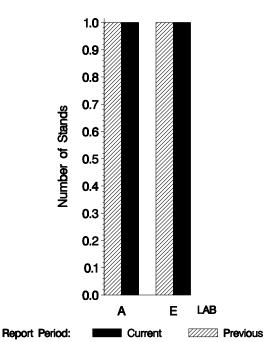
FROM: Scott Parke

SUBJECT: HTCT Testing from October 1, 2009 through March 31, 2010

A total of 4 HTCT tests were reported to the Test Monitoring Center during the period from October 1, 2009 through March 31, 2010. Following is a summary of testing activity this period.

	Reporting Data	Calibrated on 3-31-10
Number of Labs	2	2
Number of Stands	2	2





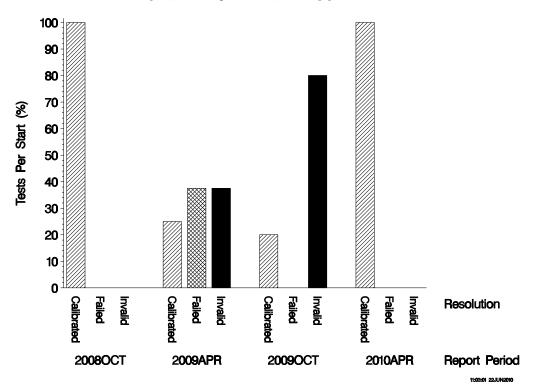
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Test Distribution by Oil and Validity

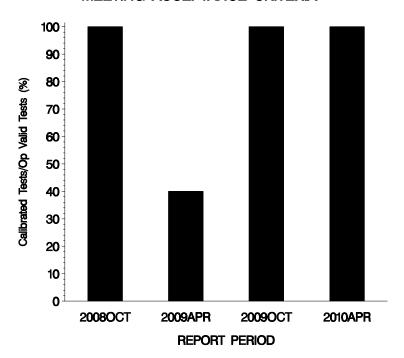
Totals

		150-2	154	155	Last Period	This Period
Accepted for calibration	AC	2	0	2	1	4
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	1	0
Accepted information run	NN	0	0	0	3	0
Total		2	0	2	5	4

CALIBRATION ATTEMPT SUMMARY



OPERATIONALLY VALID TESTS MEETING ACCEPTANCE CRITERIA

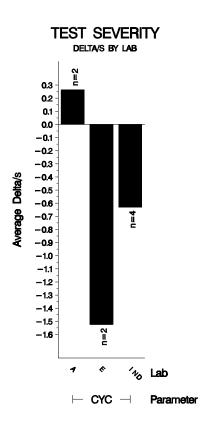


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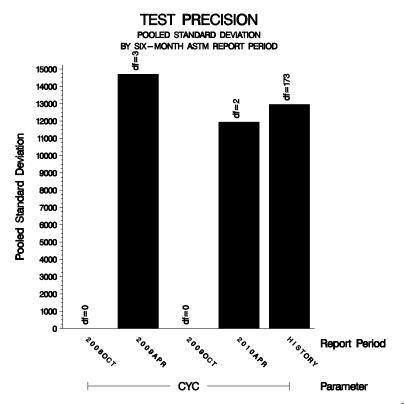
CAUSES FOR LOST TESTS:

				Oil			Validity			Loss Rate	;
Lab	Cause		150-2	154	155	RC	LC	XC	Lost	Starts	%
No tests were lost this period.								0	4	0%	
		Lost	0	0	0	0	0	0			
		Starts	2	0	2	4	4	4			
		%	0%	0%	0%	0%	0%	0%			

Average Δ /s by Lab				
Lab	n	CYC		
A	2	0.26		
Е	2	-1.52		
Industry	4	-0.63		
Shift	4	-6088.61		



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INDUSTRY CONTROL CHART:

The industry control chart is shown below. CYC began the period exceeding the severity action limit but is currently within both severity and precision limits. Average Δ /s reported this period was -0.630.

HTCT INDUSTRY OPERATIONALLY VALID DATA **END OF TEST CYCLES** LTMS Severity Analysis EWMA EWMA Action Limit Standard Deviation Unite EWMA Warning Limit EWMA Warning Limit 34 51 102 119 153 187 68 170 204 221 255 272 COUNT IN COMPLETION DATE ORDER LTMS Precision Analysis 25MAY92 01JAN96 Standard Deviation Units WMA Action Limit 119 COUNT IN COMPLETION DATE ORDER **CUSUM Severity Analysis** 64 - 65 55 - 65 25WAY92 37 -Standard Deviation Units 28 -19 -10 --8 -17 -26 -35 -44 -53

COUNT IN COMPLETION DATE ORDER

102 119 136 153 170 187 204 221 238 255 272 289

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.	

TMC LAB VISITS:

No HTCT lab visits were conducted during this report period.

INFORMATION LETTERS:

Information Letter 09-3 was issued November 25, 2009 to revise part numbers to Volvo part numbers.

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	4	3	33.6	
154	4	16	176.0	
155	3	14	157.0	
Total	11	33	366.6	

The TMC quantity remaining presumes usage only for HTCT testing. Oil 155 is also used in other test areas.

SDP/sdp/astm0410.doc/mem10-031.sdp.doc

c: Frank Farber

Jeff Clark

Don Lind

HTCT Surveillance Panel

ftp://ftp.astmtmc.cmu.edu/docs/gears/htct/semiannualreports/htct-04-2010.pdf

Distribution: email