

Test Monitoring Center

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

MEMORANDUM: 14-030

DATE: November 12, 2014

TO: Gil Reinhard, Chairman, CBT Surveillance Panel

FROM: Michael T. Kasimirsky Michael J. Rasimirsky

SUBJECT: HTCBT Testing from April 1, 2014 through September 30, 2014

A total of 272 HTCBT tests were reported to the Test Monitoring Center during the report period from April 1, 2014 through September 30, 2014.

Please find attached a summary of testing activity this period.

MTK/mtk/astm0414.doc/mem14-030.mtk.doc

cc: F. M. Farber J. A. Clark

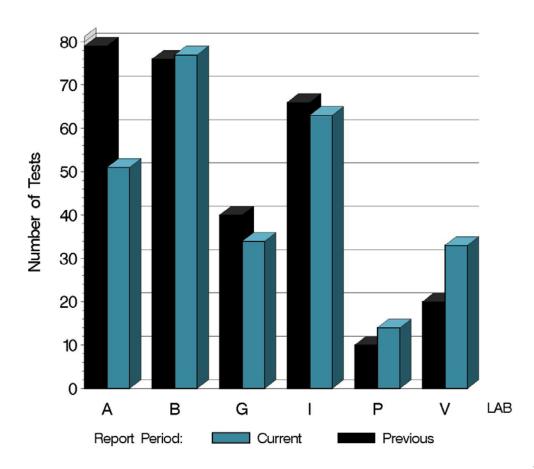
CBT Surveillance Panel

ftp://ftp.astmtmc.cmu.edu/docs/bench/htcbt/semiannualreports/htcbt-10-2014.pdf

Distribution: email

	Reporting Data	
Number of Labs	6	

NUMBER OF TESTS REPORTED BY LAB AND REPORT PERIOD



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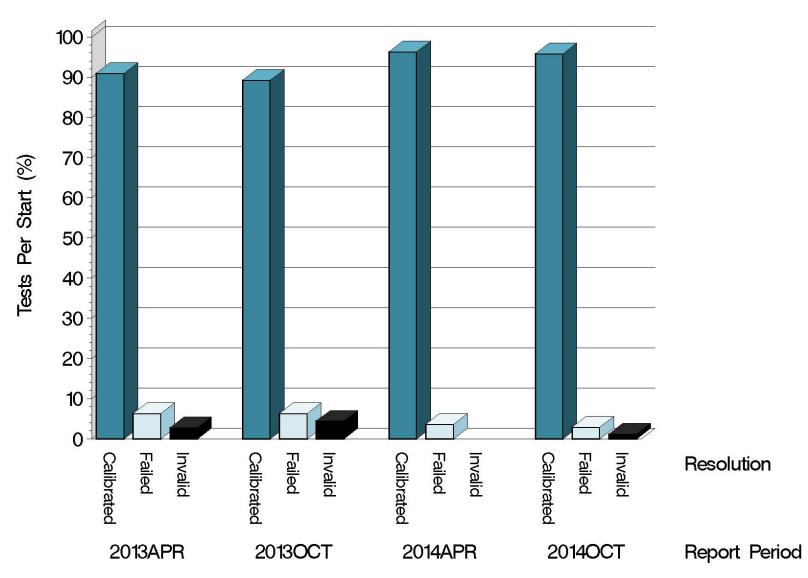


Test Distribution by Validity

		Number of Tests
Accepted for calibration	AC	229
Rejected	OC	7
Invalidated	LC	2
Aborted	XC	1
Acceptable Shakedown Run	AG	5
Unacceptable Shakedown Run	OG	28
Aborted Shakedown Run	XG	0
Total		272



CALIBRATION ATTEMPT SUMMARY

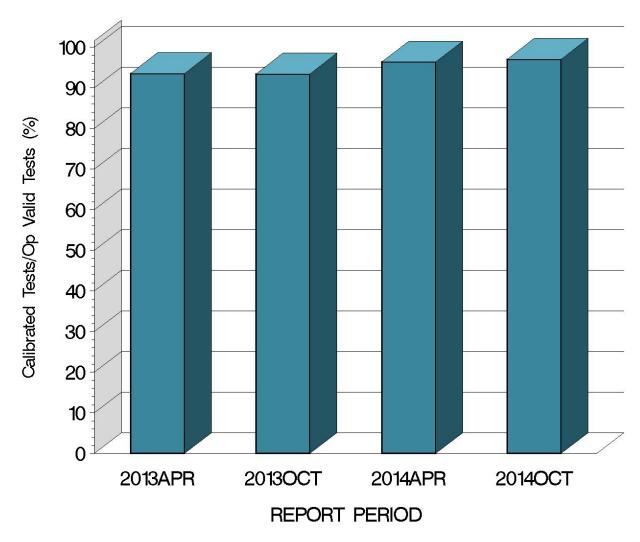


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OPERATIONALLY VALID TESTS MEETING ACCEPTANCE CRITERIA



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CAUSES FOR LOST TESTS

Summary of Reasons for Failed Tests	No. of Tests
Copper, severe	2
Copper, mild	1
Lead, severe	1
Lead, mild	1
Copper & Lead, severe	2



CAUSES FOR LOST TESTS (CONTINUED)

Summary of Reasons for Invalid Tests	No. of Tests
Temperature Controller failed	1
Lead Coupon not run	1



CAUSES FOR LOST TESTS (CONTINUED)

Summary of Reasons for Aborted Tests	No. of Tests
Power Failure	1



Average Δ/s By Laboratory			
Lab	n	CUC	PBC
Α	51	1.149	0.164
В	75	0.798	-0.629
G	34	1.084	0.538
I	62	0.848	0.242
Р	14	2.330	-0.750
V	0	-	-
Industry	236	1.019	-0.068

Individual test results can be found on the TMC Web Page at the following link:

ftp://ftp.astmtmc.cmu.edu/refdata/bench/htcbt/data/



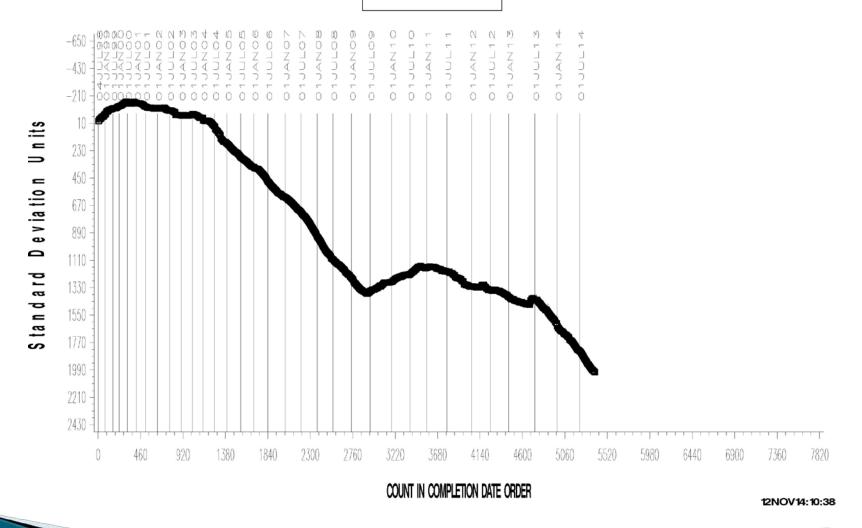


HIGH TEMP CBT INDUSTRY OPERATIONALLY VALID DATA



COPPER CHANGE (ppm)

CUSUM Severity Analysis





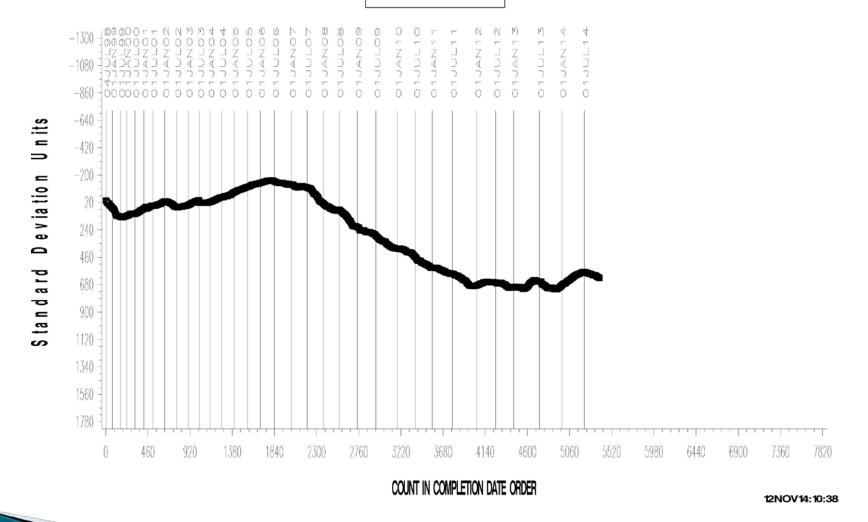


HIGH TEMP CBT INDUSTRY OPERATIONALLY VALID DATA



LEAD CHANGE (ppm)

CUSUM Severity Analysis

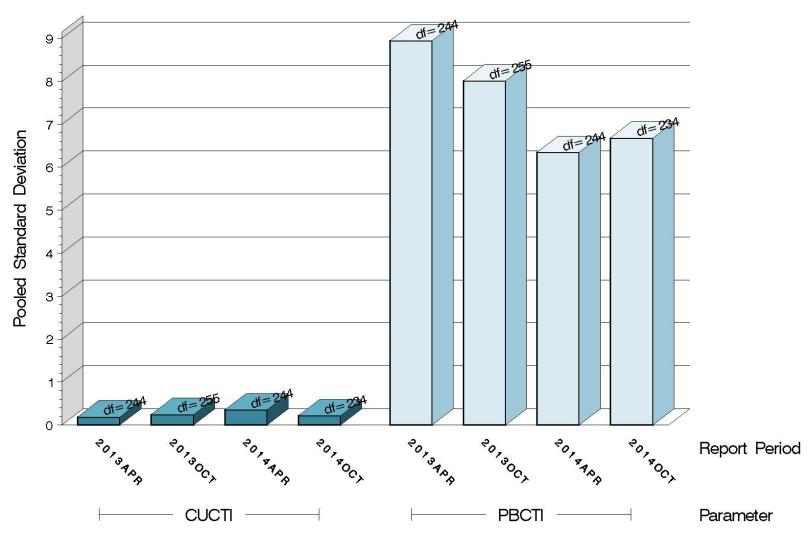






TEST PRECISION

POOLED STANDARD DEVIATION
BY SIX-MONTH ASTM REPORT PERIOD



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HTCBT (D 6594) SUMMARY OF SEVERITY & PRECISION

Severity

Over the course of this report period, copper severity, as measured by cusum plotting, was severe.

Over the course of this report period, lead severity, as measured by cusum plotting, was very slightly mild.

Precision

Pooled s for this period is 0.22 for copper and 6.68 for lead.

Over the course of this report period, Precision, as measured by pooled standard deviation, is slightly better than previous periods for copper and is slightly worse than the previous period for lead, but is still within historical levels.





INFORMATION LETTERS

No HTCBT Information Letters were issued this period.



STATUS OF REFERENCE OIL SUPPLY

		@ TMC		
Reference Oil	Samples @ Labs	Samples (4 oz)	Gallons	
44-1	0	0	0.0	
44-2	0	0	0.0	
44-3	104	396	12.4	
1005-1	0	0	0.0	
1005-3	146	240	7.5	
Total	250	636	19.9	

