

Test Monitoring Center

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

MEMORANDUM: 10-021

DATE: May 19, 2010

TO: Gil Reinhard, Chairman, CBT Surveillance Panel

FROM: Michael T. Kasimirsky Michael J. Rasimisky

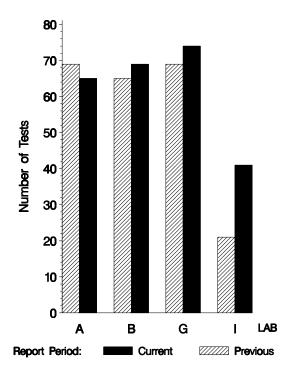
SUBJECT: HTCBT Testing from October 1, 2009 through March 31, 2010

A total of 249 HTCBT 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	
Number of Labs	4	

Tests reported this period were distributed as shown below:

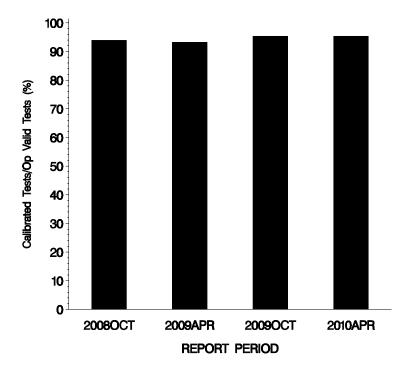
NUMBER OF TESTS REPORTED BY LAB AND REPORT PERIOD



Test Distribution by Validity

	TMC Validity Codes	No. of Tests
Operationally and Statistically Acceptable	AC	226
Failed Acceptance Criteria	OC	11
Operationally Invalid	LC, RC	0
Aborted	XC	2
Acceptable Donated Tests	NI	8
Unacceptable Donated Tests	MI	2
Total		249





The above chart shows the percentage of accepted operationally valid tests. Eleven tests failed to meet the acceptance criteria this period.

The reasons for failed, invalid, or aborted tests are shown in the following tables:

Summary of Reasons for Failed Tests

	No. of Tests
Copper, mild	4
Copper, severe	4
Lead, severe	2
Copper & Lead, both severe	1

Summary of Reasons for Invalid Tests

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		No. of Tests
	No invalid tests	0

Summary of Reasons for Aborted Tests

	No. of Tests
Bath Failure	2

Industry Severity Summary

The following table shows the average Δ /s, by laboratory and for the industry overall, for both copper and lead concentration for this ASTM report period.

Average Δ /s by Lab

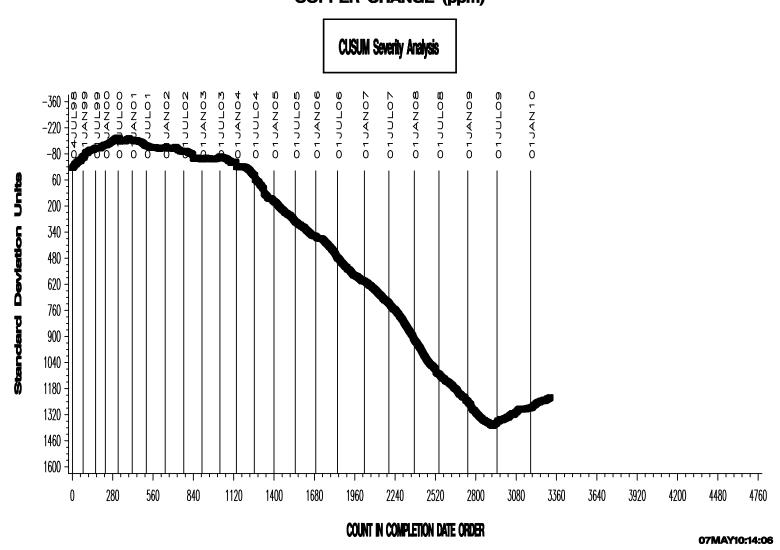
TIVETUGE E/S E/J EUE				
Lab	n	CUC	PBC	
A	61	-0.869	-0.529	
В	66	-0.427	-0.292	
G	71	0.519	1.096	
I	39	-0.810	1.554	
Industry	237	-0.321	0.367	

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

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

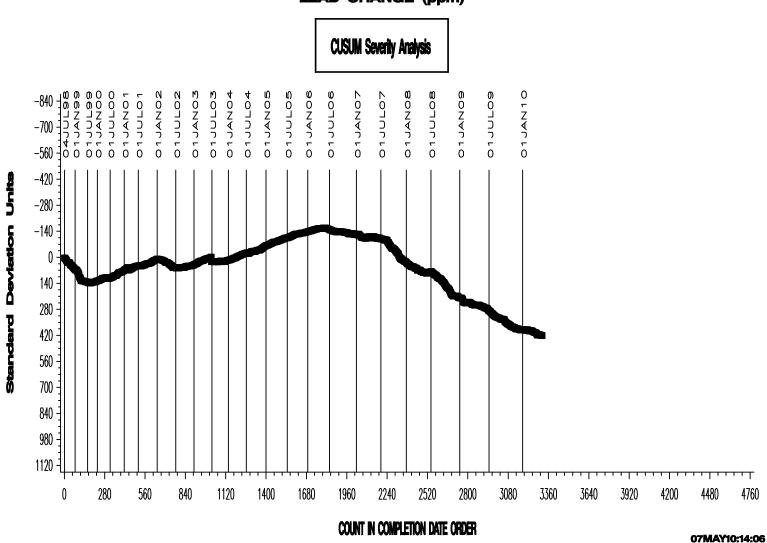
The plots of summation delta/s from target for change in copper and change in lead, respectively, are shown on the following pages. Copper concentration results are continuing the mild trend begun in mid-2009. Lead concentration results are continuing the severe trend begun in 2007.

HIGH TEMP CBT INDUSTRY OPERATIONALLY VALID DATA COPPER CHANGE (ppm)



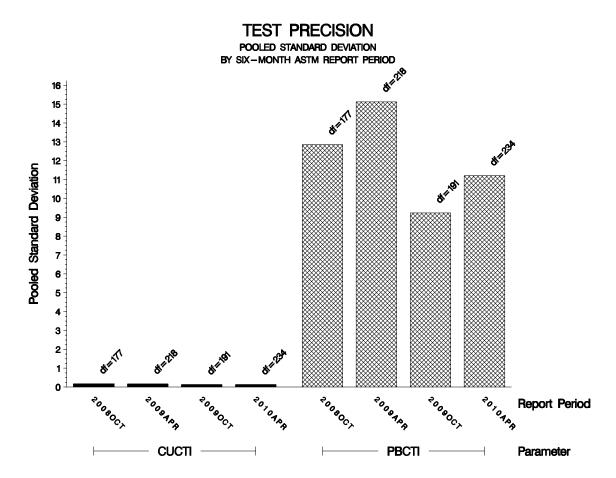
HIGH TEMP CBT INDUSTRY OPERATIONALLY VALID DATA

LEAD CHANGE (ppm)



POOLED S:

Precision estimates, by report period are depicted below. Precision estimates for both copper and lead are within historical levels.



STATUS OF REFERENCE OIL SUPPLY:

At the end of this report period, the testing oil supply stood as outlined in the following table:

		@ TMC	
Oil	Samples @ Labs	Samples	Gallons
44-1	11	89	2.8
44-2	21	435	13.6
1005-1	8	57	1.8
1005-3	21	1280	40.0
Total	61	1861	58.2

As approved by the HTCBT Surveillance Panel, Reference Oil 1005-1 was introduced into the calibration system using test targets based upon eight data points. The initial targets are shown in Table 1, below:

Table 1: Reference Oil 1005-1 Initial Test Targets (N=8)			
Parameter	Mean	Standard Deviation	Acceptance Range
Copper Concentration	2.5986	0.1069	10.9 to 16.6
Lead Concentration	56.2	6.8	42.7 to 69.6

These targets were effective on December 21, 2009.

INFORMATION LETTERS:

No information letters were issued this period.

SUMMARY

- Over the course of this report period, copper severity, as measured by cusum plotting, continued the existing mild trend.
- Over the course of this report period, lead severity, as measured by cusum plotting, continued the existing severe trend.

Precision as measured by pooled standard deviation is worse than last period for lead concentration, while copper concentration is comparable to previous levels.

MTK/mtk/astm0410.doc/mem10-021.mtk.doc

c: F. M. Farber

J. A. Clark

CBT Surveillance Panel

ftp://ftp.astmtmc.cmu.edu/docs/bench/htcbt/semiannualreports/htcbt-04-2010.pdf

Distribution: email