

# **Test Monitoring Center**

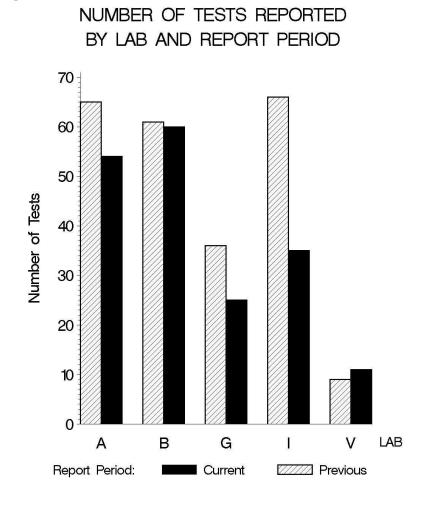
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MEMORANDUM:	12-032
DATE:	November 8, 2012
TO:	Gil Reinhard, Chairman, CBT Surveillance Panel
FROM:	Michael T. Kasimirsky Michael J. Rasimisky
SUBJECT:	HTCBT Testing from April 1, 2012 through September 30, 2012

A total of 185 HTCBT tests were reported to the Test Monitoring Center during the period from April 1, 2012 through September 30, 2012. Following is a summary of testing activity this period.

	Reporting Data
Number of Labs	5

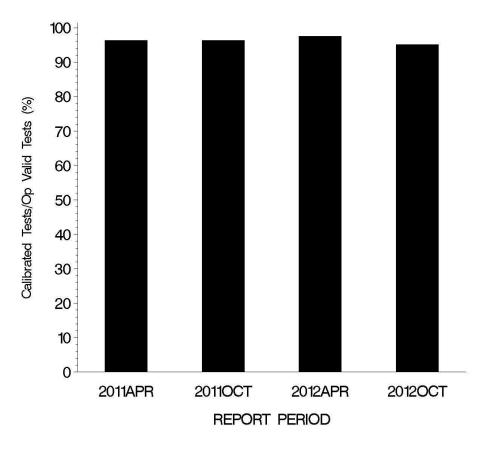
Tests reported this period were distributed as shown below:



## **Test Distribution by Validity**

	TMC Validity Codes	No. of Tests
Operationally and Statistically Acceptable	AC	172
Failed Acceptance Criteria	OC	9
Operationally Invalid	LC, RC	2
Aborted	XC	2
Acceptable Donated Tests	AG	0
Unacceptable Donated Tests	OG	0
Total		185

OPERATIONALLY VALID TESTS MEETING ACCEPTANCE CRITERIA



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

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

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

#### **Summary of Reasons for Failed Tests**

#### Summary of Reasons for Invalid Tests

	No. of Tests
Sample Contamination	2

#### Summary of Reasons for Aborted Tests

	No. of Tests
Incorrect Apparatus Assembly	1
Bath Failure	1

### **Industry Severity Summary**

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

Average $\Delta$ /s by Lab			
Lab	n	CUC	PBC
А	54	0.783	0.258
В	60	-0.395	-0.592
G	25	0.620	0.260
Ι	34	-0.698	0.816
V	8	4.873	0.907
Industry	181	0.273	0.110

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

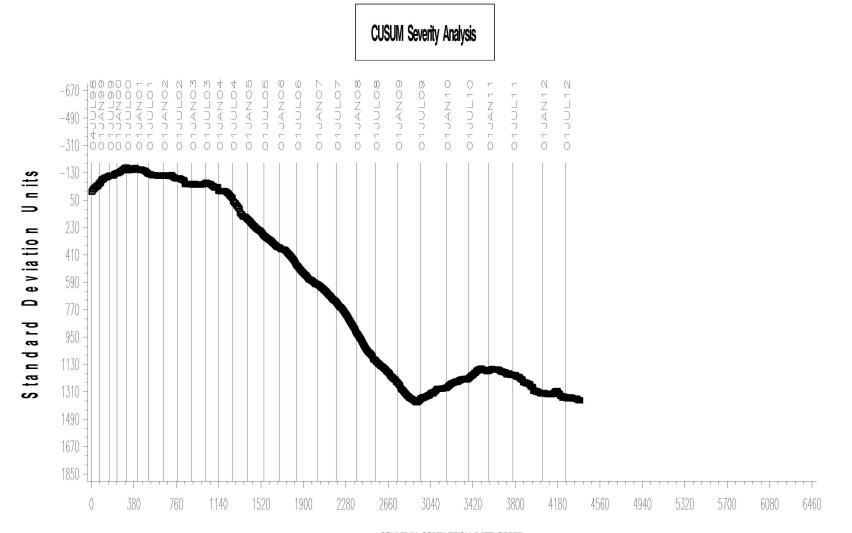
ftp://ftp.astmtmc.cmu.edu/refdata/bench/htcbt/data/

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 very slightly severe and lead concentration results are on target for the period.

## HIGH TEMP CBT INDUSTRY OPERATIONALLY VALID DATA



## **COPPER CHANGE (ppm)**

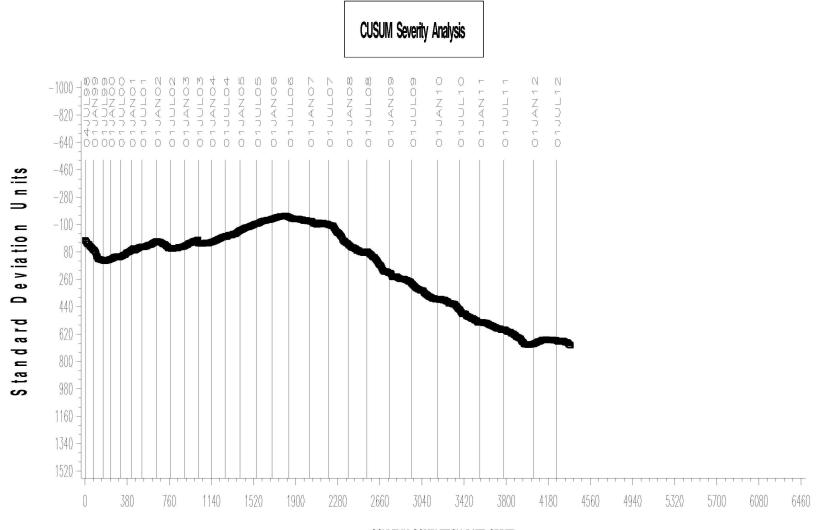


COUNT IN COMPLETION DATE ORDER

## HIGH TEMP CBT INDUSTRY OPERATIONALLY VALID DATA



## LEAD CHANGE (ppm)

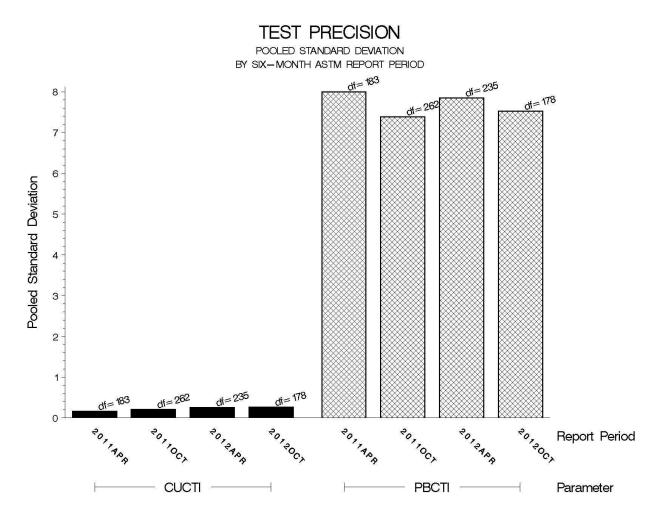


COUNT IN COMPLETION DATE ORDER

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## 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	0	0	0.0
44-2	24	0	0.0
44-3	49	902	28.2
1005-1	0	0	0.0
1005-3	119	988	30.9
Total	192	1890	59.1

The TMC supply of reference oil 44-2 has been depleted. The TMC has procured a reblend of this oil, but it has not been introduced into the reference oil system at this time. A quantity of reference oil 1005-3 has been set aside for HTCBT use exclusively; the quantity remaining of that reserved amount is shown in the table.

#### **INFORMATION LETTERS:**

No information letters were issued this period.

#### **SUMMARY**

- Over the course of this report period, copper severity, as measured by cusum plotting, was very slightly severe.
- Over the course of this report period, lead severity, as measured by cusum plotting, was on target.

Precision, as measured by pooled standard deviation, is still comparable to historical levels, for both copper and lead concentration.

MTK/mtk/astm1012.doc/mem12-032.mtk.doc

F. M. Farber J. A. Clark CBT Surveillance Panel <u>ftp://ftp.astmtmc.cmu.edu/docs/bench/htcbt/semiannualreports/htcbt-10-2012.pdf</u>

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