Test Monitoring Center

Carnegie Mellon University
6555 Penn Avenue, Pittsburgh, PA 15206, USA

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

A Program of ASTM International

MEMORANDUM: 12-016

DATE: May 22, 2012

TO: Gil Reinhard, Chairman, CBT Surveillance Panel

FROM: Michael T. Kasimirsky

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

A total of 20 CBT tests were 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
Number of Labs	2

Tests reported this period were distributed as shown below:

NUMBER OF TESTS REPORTED BY LAB AND REPORT PERIOD
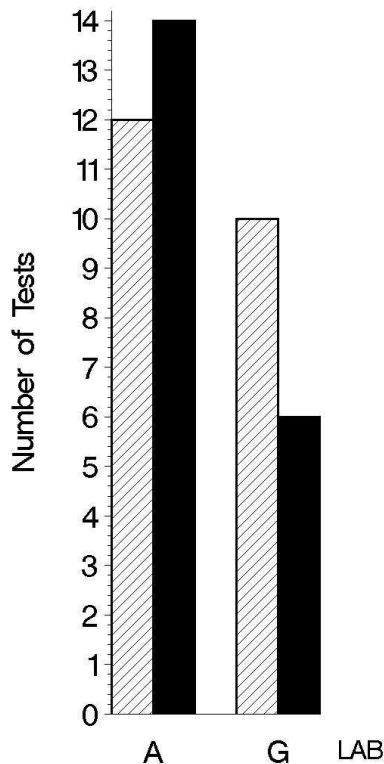
Report Period: ■ Current   ▨ Previous

Test Distribution by Validity

	TMC Validity Codes	No. of Tests
Operationally and Statistically Acceptable	AC	18
Failed Acceptance Criteria	OC	2
Operationally Invalid	LC, RC	0
Aborted	XC	0
Acceptable Donated Tests	AG	0
Invalid Donated Tests	LG	0
Total		20

OPERATIONALLY VALID TESTS
MEETING ACCEPTANCE CRITERIA
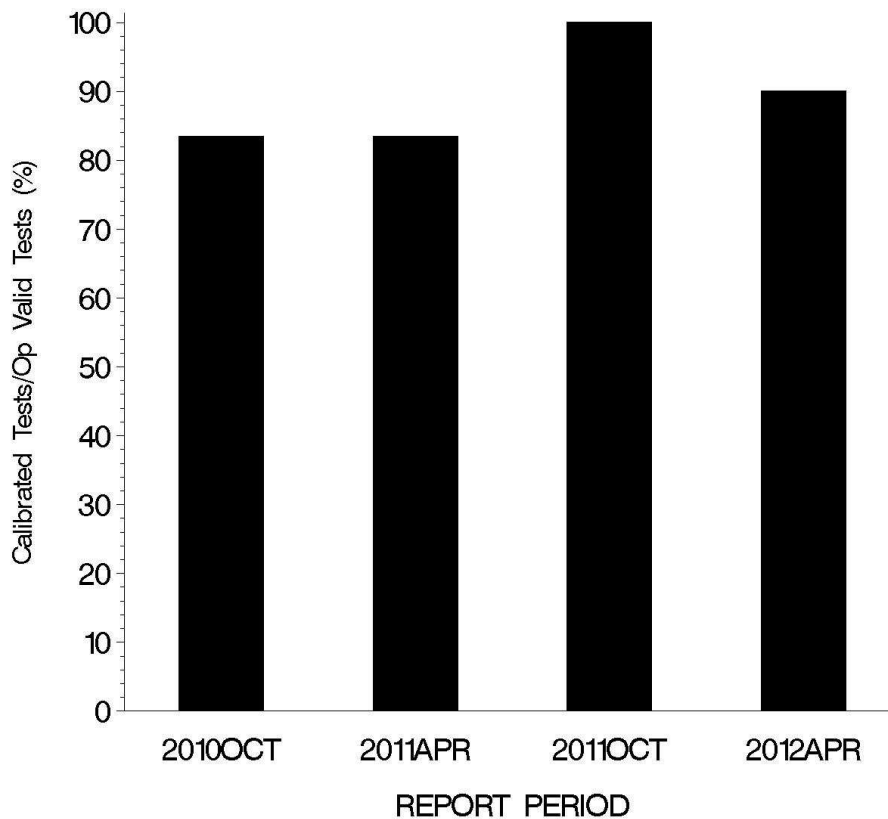
The above chart shows the percentage of accepted operationally valid tests. Two tests failed to meet the acceptance criteria this period.

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

Summary of Reasons for Failed Tests

	No. of Tests
Mild Lead results	1
Mild Copper and Lead results	1

Summary of Reasons for Invalid Tests

	No. of Tests
No invalid tests	0

Summary of Reasons for Aborted Tests

	No. of Tests
No aborted tests	0

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

Lab	n	CUC	PBC
A	14	-1.510	-1.340
G	6	-1.325	-1.302
Industry	20	-1.454	-1.329

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

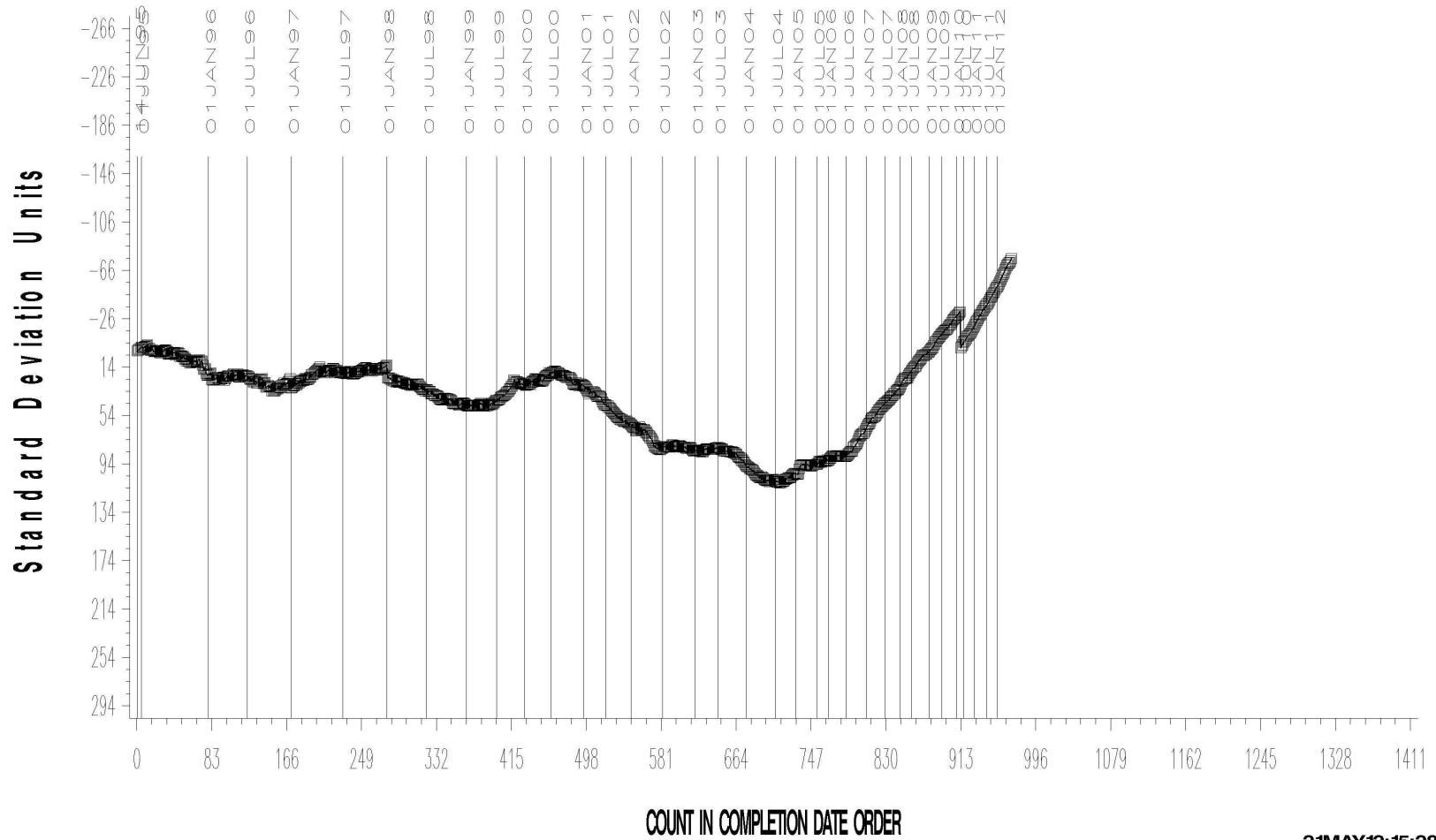ftp://ftp.astmtmc.cmu.edu/refdata/bench/cbt/data/

The plots of summation delta/s from target for change in copper and change in lead, respectively, are shown on the following pages. Both copper and lead concentration results are continuing to trend mild.

CBT INDUSTRY OPERATIONALLY VALID DATA

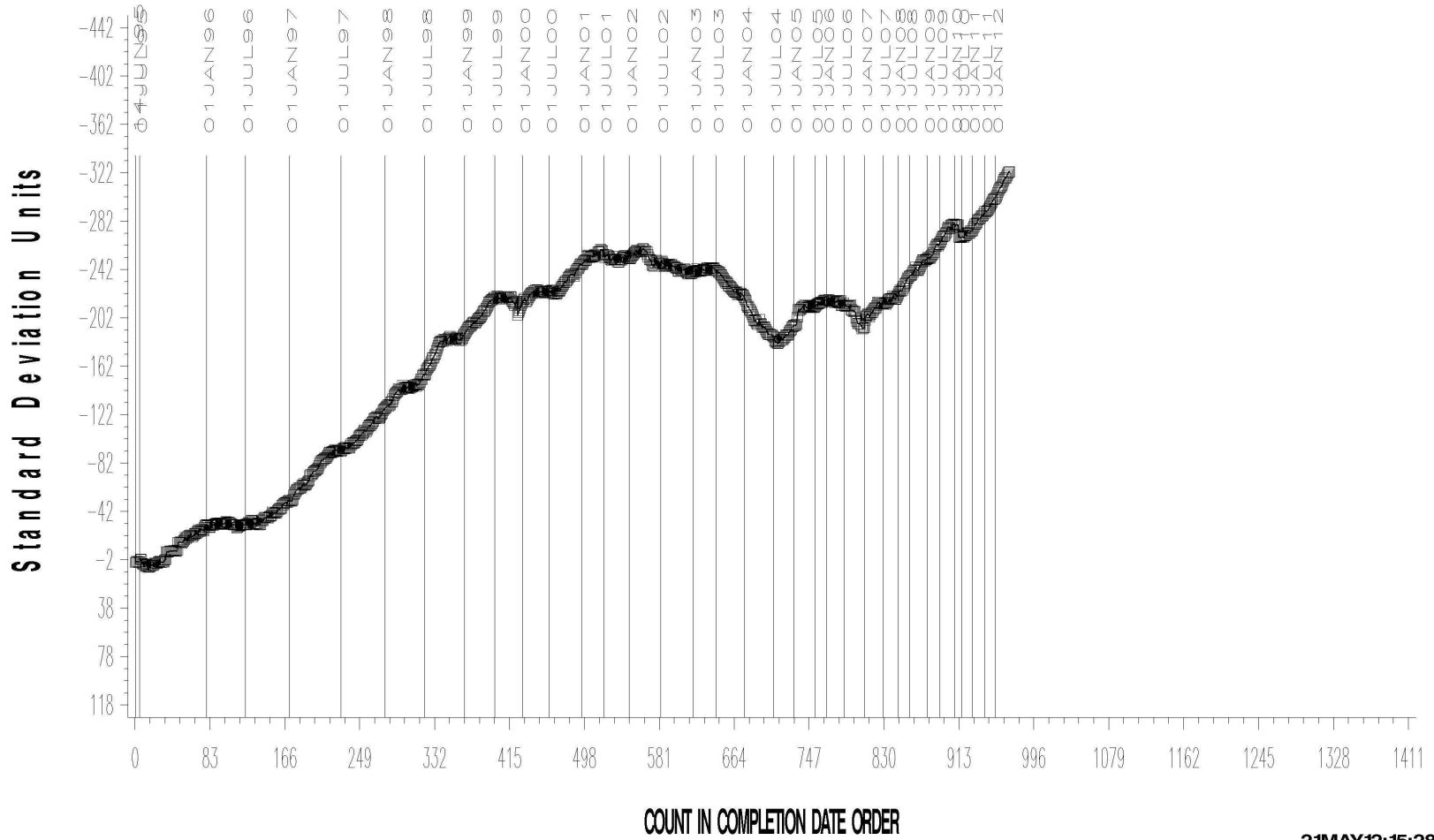## COPPER CHANGE (ppm)

CUSUM Severity Analysis

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CBT INDUSTRY OPERATIONALLY VALID DATA

LEAD CHANGE (ppm)

CUSUM Severity Analysis

Standard Deviation Units

COUNT IN COMPLETION DATE ORDER

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POOLED S:

Precision estimates, by report period are depicted below. The Precision estimate for lead has improved slightly, while the precision estimate for copper has degraded slightly, compared to previous periods.

TEST PRECISION
POOLED STANDARD DEVIATION
BY SIX—MONTH ASTM REPORT PERIOD
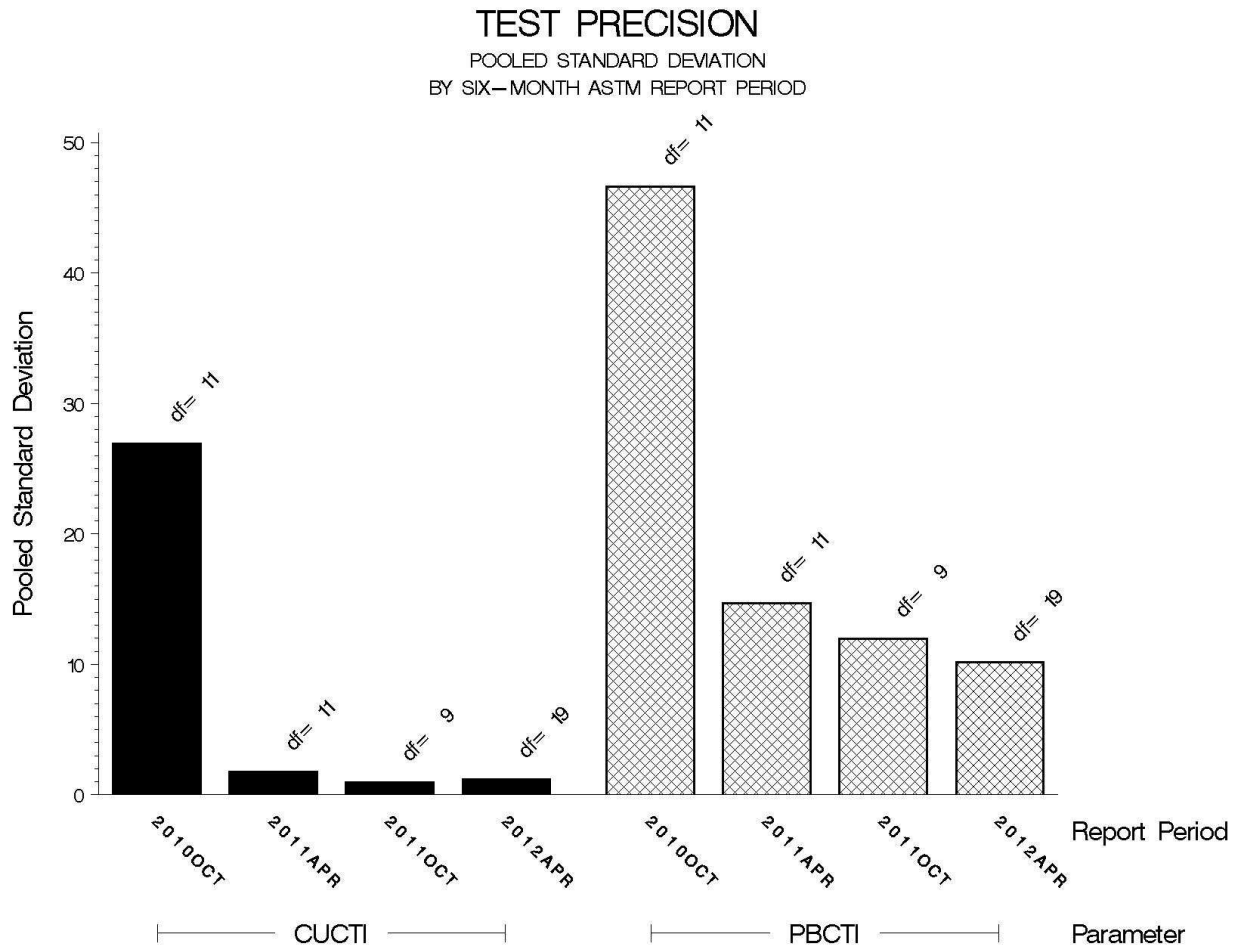
STATUS OF REFERENCE OIL SUPPLY:
At the end of this report period, the testing oil supply stood as outlined in the following table:

		@ TMC	
Oil	Samples @ Labs	Samples	Gallons
43	26	1475	46.1

INFORMATION LETTERS:
No information letters were issued this period.

SUMMARY

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

- Precision as measured by pooled standard deviation is slightly better than previous periods for lead concentration and slightly worse than previous periods for copper concentration.

MTK/mtk/astm0412.doc/mem12-016.mtk.doc
c: F. M. Farber
        J. A. Clark
        CBT Surveillance Panel
        ftp://ftp.astmtmc.cmu.edu/docs/bench/cbt/semiannualreports/cbt-04-2012.pdf

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