



Test Monitoring Center

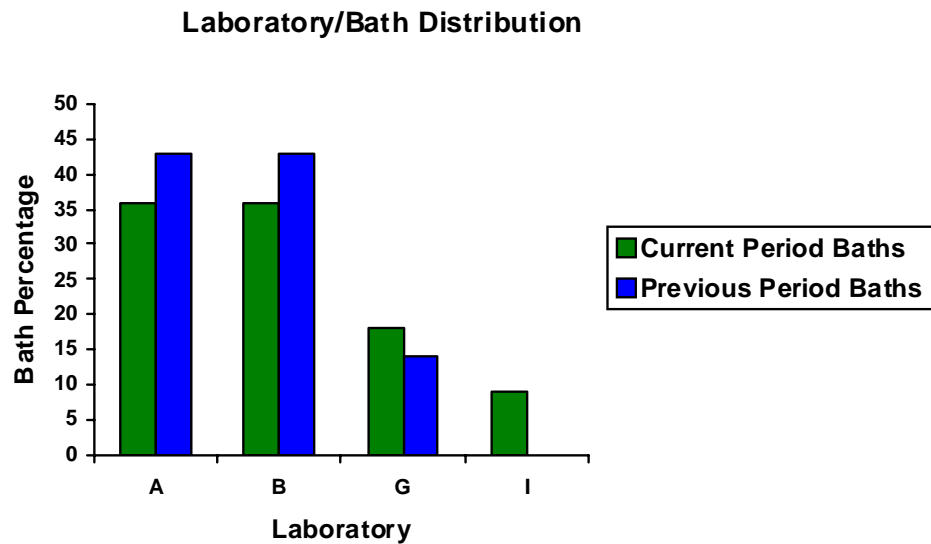
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412-365-1000

MEMORANDUM: 08-070
DATE: November 25, 2008
TO: Gil Reinhard, Chairman, CBT Surveillance Panel
FROM: Michael T. Kasimirsky *Michael T. Kasimirsky*
SUBJECT: High Temperature Corrosion Bench Testing for the October 2008 Report Period

A total of 186 High Temperature Corrosion Bench Test results from 11 baths in four labs were reported to the TMC during the October 2008 ASTM report period, which began on April 1, 2008 and ended on September 30, 2008.

The following chart shows the distribution by laboratory.



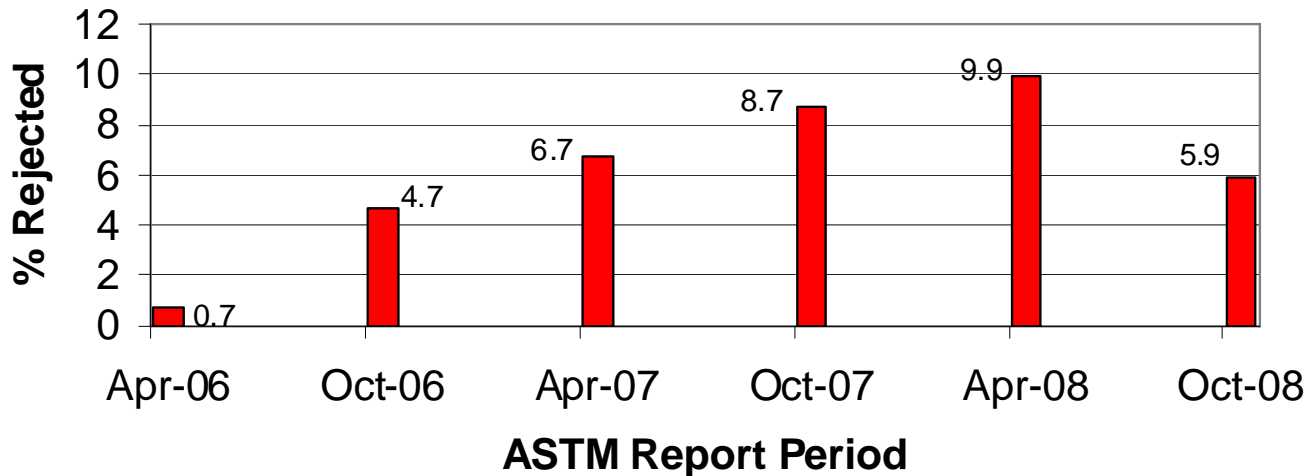
The following summarizes the status of the reference oil tests reported to the TMC:

	TMC Validity Codes	No. of Tests
Operationally and Statistically Acceptable	AC	168
Failed Acceptance Criteria	OC	11
Declared Invalid by Laboratory	LC	3
Aborted	XC	4
Acceptable Donated Tests	AG	0
Unacceptable Donated Tests	OG	0
Total		186

Tables 1, 2, and 3 (attached) summarize any failed, invalid and aborted tests.

The following presents the fail rate for this period with the fail rates of previous periods.

Comparison of Rejection Rates for This Period Versus Previous Periods



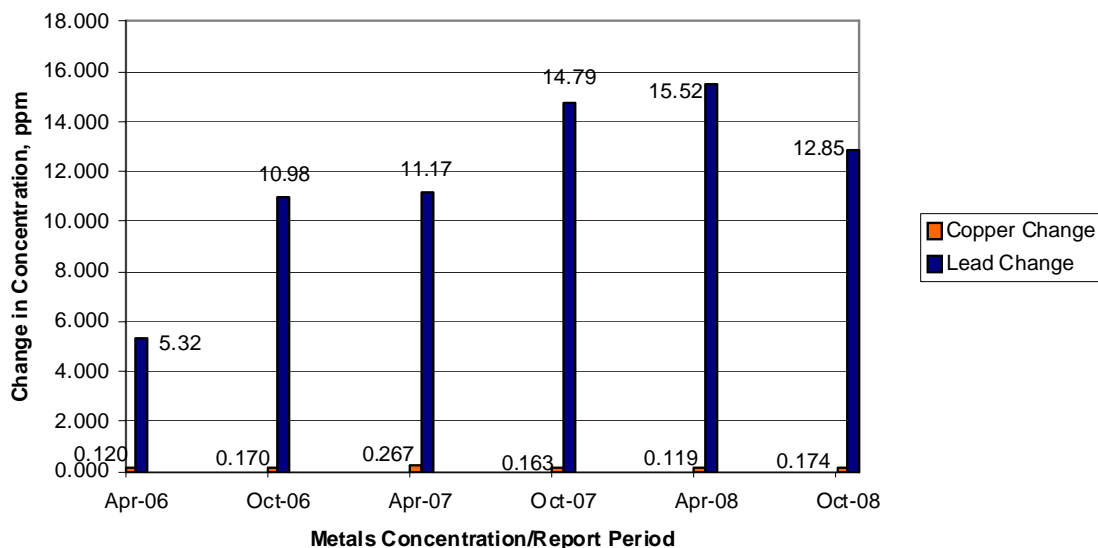
Industry Severity and Precision

The current severity for the change in metals concentration parameters on all operationally valid tests, for the current and previous periods, is tabulated below.

Period	n	Δ Cu Mean Δ/s	Δ Pb Mean Δ/s
4/1/08 through 9/30/08	179	0.79	0.37
10/1/07 through 3/31/08	172	1.27	0.68
4/1/07 through 9/30/07	173	0.84	0.36
10/1/06 through 3/31/07	176	0.58	0.15
4/1/06 through 9/30/06	172	0.90	0.11

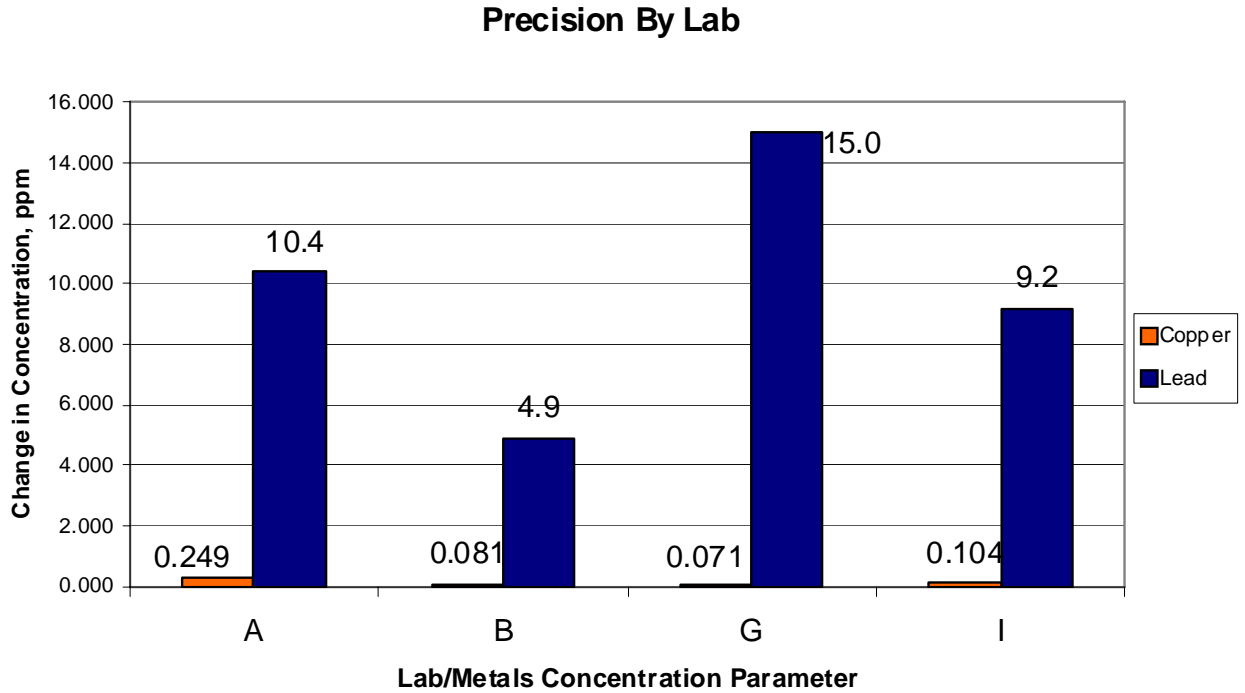
Figures 1 and 2 plot the Summation delta/s from target for change in copper and change in lead, respectively. Figure 1 shows copper change to be severe for the period. Figure 2 shows lead change to be severe for the period. Precision estimates, by report period are depicted below. Compared to past periods, the precision for Pb change shows improvement while precision for Cu shows degradation.

Precision Estimates by ASTM Report Period



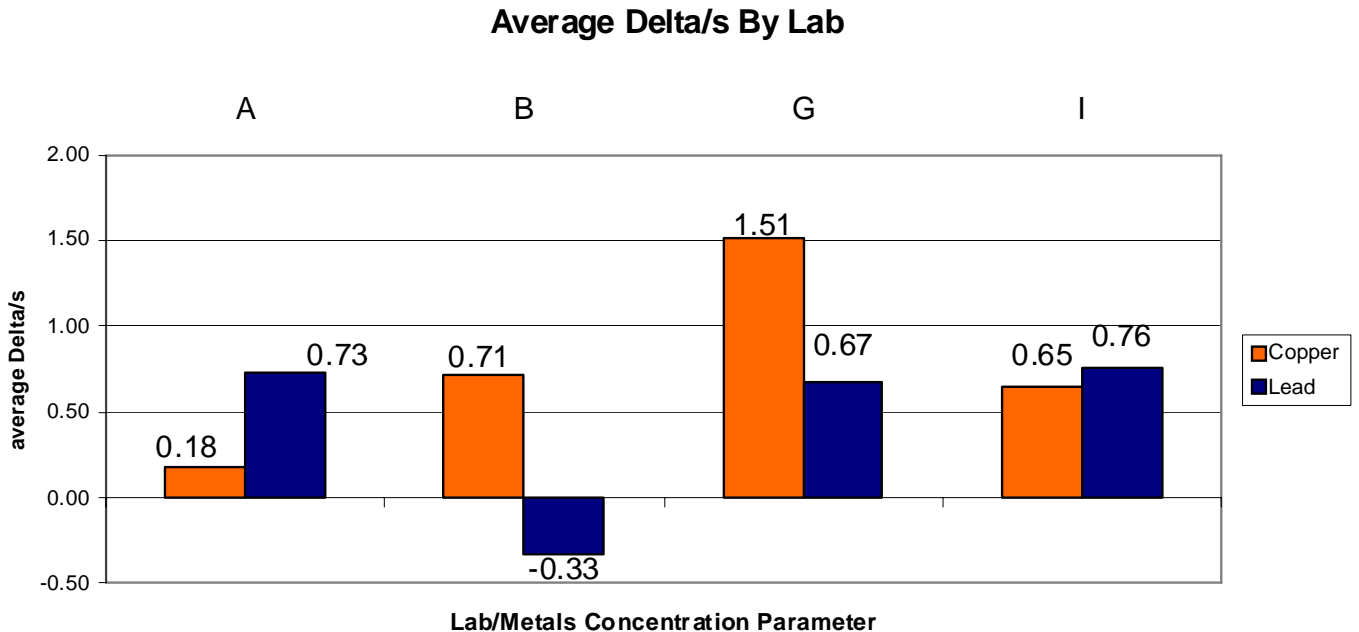
Laboratory Severity and Precision

The following plot shows the precision for this period, by lab.



Precision estimates for Lead show better precision at Lab B than at Labs A, G, and I, while precision estimates for Copper show better precision at Lab G than at Labs A, B, and I.

The following plot shows the average Δ/s by laboratory and concentration parameter for this ASTM report period. For Copper, Lab A was the mildest and for Lead, Lab B was the mildest. Lab G was the most severe for Copper and Lab I was the most severe for Lead.



Reference Oil and Hardware

Reference oil quantities available at the laboratories and TMC, as well as estimated life of these oils, are tabulated below. The TMC is out of oil 44. A reblend of this oil, reference oil 44-1, has been procured by the TMC and is awaiting Surveillance Panel approval for introduction.

Oil	TMC Inventory (gallons)	TMC Inventory (tests)	Lab Inventory (tests)	Usage Ratio (%)	Estimated life
1005	9.6	~307	92	~75	~1.4 years*
44	0	0	0	N/A	None
44-1	15.0	~480	0	~25	~5 years*

* Estimated life of reference oils based upon introduction of oil 44-1 into system.

Information Letters

No information letters were issued this period.

Additional Information

The HTCBT database is available on the TMC's website. If you have any questions on how to access this information, contact the TMC.

MTK/mtk/mem08-070.mtk.doc

c: HTCBT Surveillance Panel

<ftp://ftp.astmtmc.cmu.edu/docs/bench/htcbt/semiannualreports/htcbt-10-2008.pdf>

J. L. Zalar

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Distribution: Email

Table 1
Summary of Reasons for Failed Tests

	No. of Tests
Lead, severe	3
Copper, severe	3
Copper and Lead, severe	5

Table 2
Summary of Reasons for Invalid Tests

	No. of Tests
Loss of airflow	2
Cooling water failure	1

Table 3
Summary of Reasons for Aborted Tests

	No. of Tests
Power failure	4

Figure 1
HIGH TEMP CBT INDUSTRY OPERATIONALLY VALID DATA

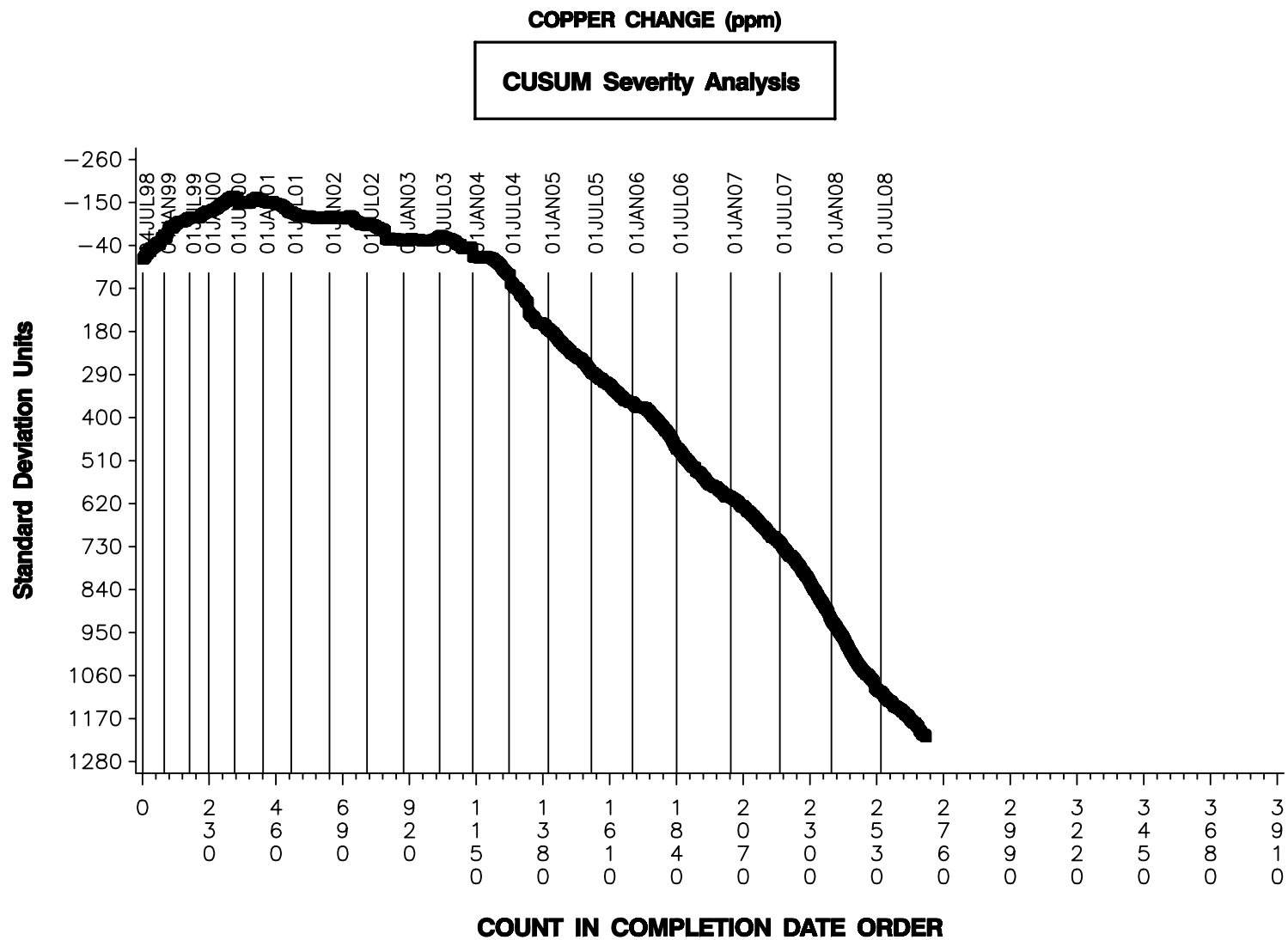


Figure 2
HIGH TEMP CBT INDUSTRY OPERATIONALLY VALID DATA

