



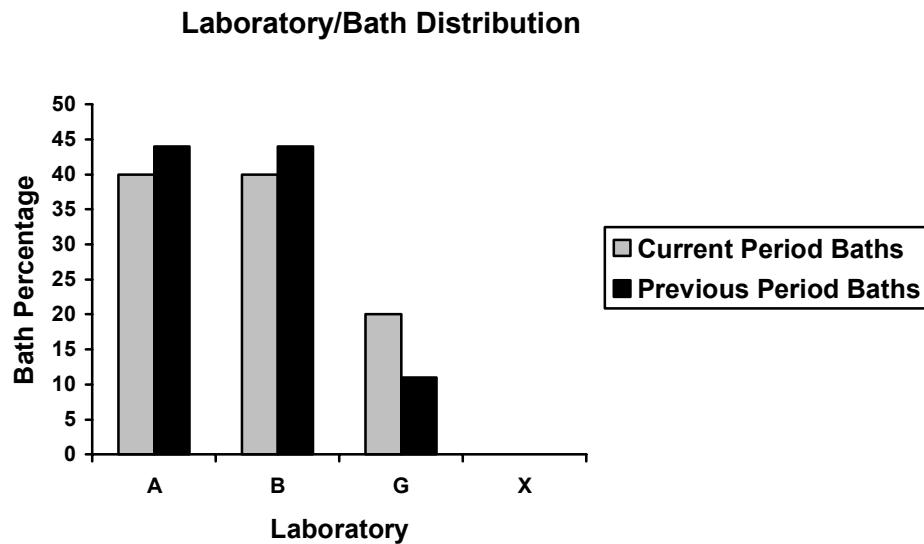
Test Monitoring Center

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Pittsburgh, PA 15206-4489
(412) 365-1000

MEMORANDUM: 04-082
DATE: October 13, 2004
TO: Joe Franklin, Chairman, CBT Surveillance Panel
FROM: Jeff Clark
SUBJECT: High Temperature Corrosion Bench Testing for the October 2004 Report Period

A total of 204 High Temperature Corrosion Bench Test results from ten baths in three labs were reported to the TMC during the October 2004 ASTM report period, which began on April 1, 2004 and ended on September 30, 2004.

The following chart shows the distribution by laboratory.



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

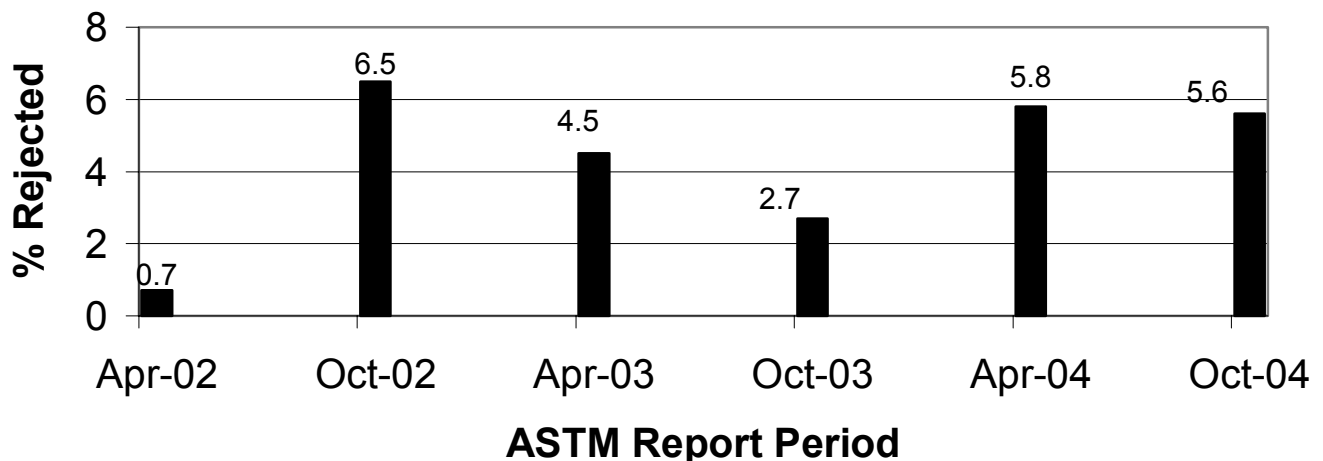
	TMC Validity Codes	No. of Tests
Operationally and Statistically Acceptable	AC	134
Failed Acceptance Criteria	OC	8
Declared Invalid by Laboratory	LC	0
Aborted	XC	2
Acceptable Donated Test	AG	60
Total		204

One test was aborted by the client and one test was aborted due to a mechanical failure. All 60 donated tests were run as part of an industry-wide matrix to study the effects of changing cleaning solvents. The table below tallies the statistically unacceptable tests:

Reason	Number of Tests
Severe Copper	5
Severe Copper, Severe Lead	2
Mild Copper, Severe Lead	1

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



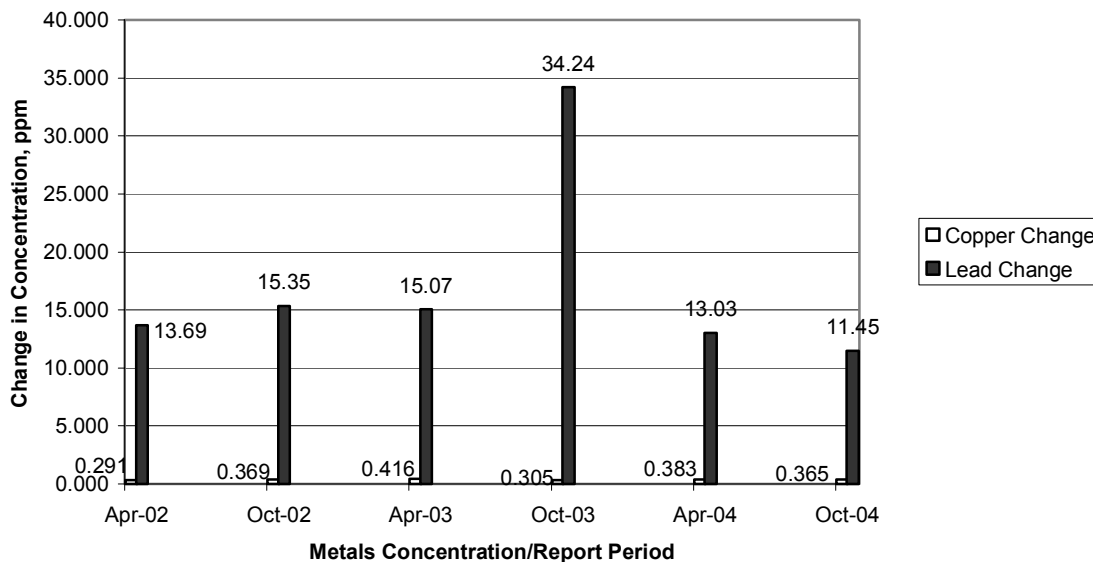
Industry Severity and Precision

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	Δ Pb
		Mean Δ /s	Mean Δ /s
4/1/04 through 9/30/04	142	1.03	-0.26
10/1/03 through 3/31/04	120	0.35	-0.22
4/1/03 through 9/30/03	111	0.01	0.07
10/1/02 through 3/31/03	134	0.01	-0.26
4/1/02 through 9/30/02	124	0.30	0.22

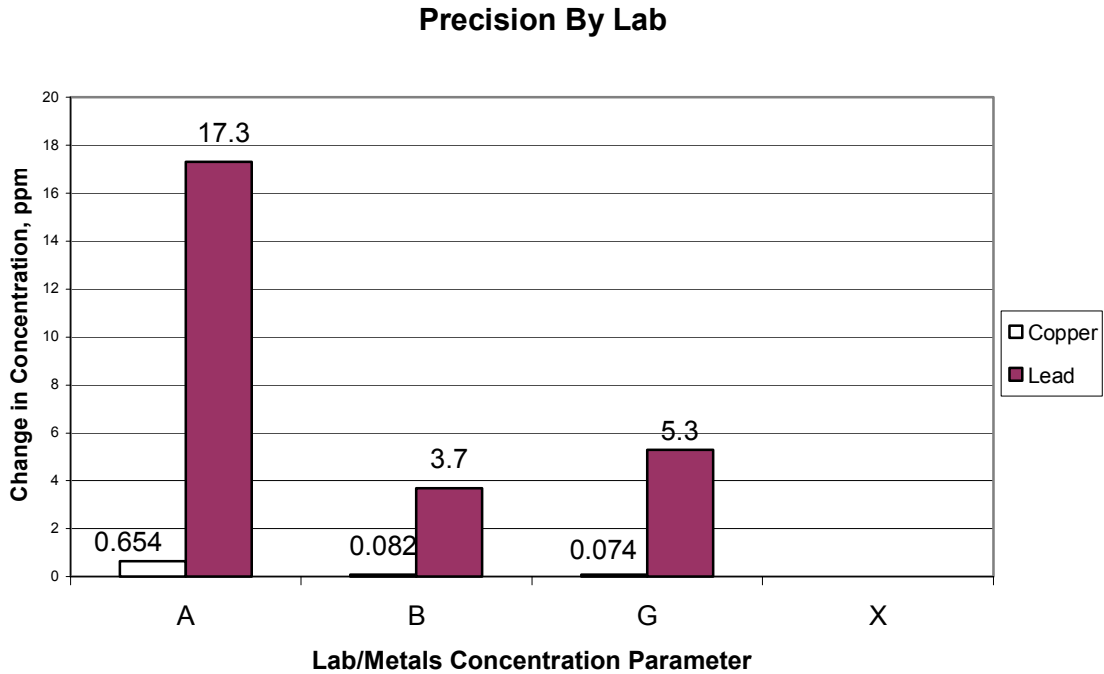
Figures 1 and 2 plot the Summation delta/s from target for both change in copper and change in lead, respectively. Figure 1 shows copper change to be severe for the period. Figure 2 shows lead change to be mild for the period. Precision estimates, by report period are depicted below. Precision for Cu change is within historical levels. Precision for Pb change shows some improvement compared to historical levels.

Precision Estimates by ASTM Report Period



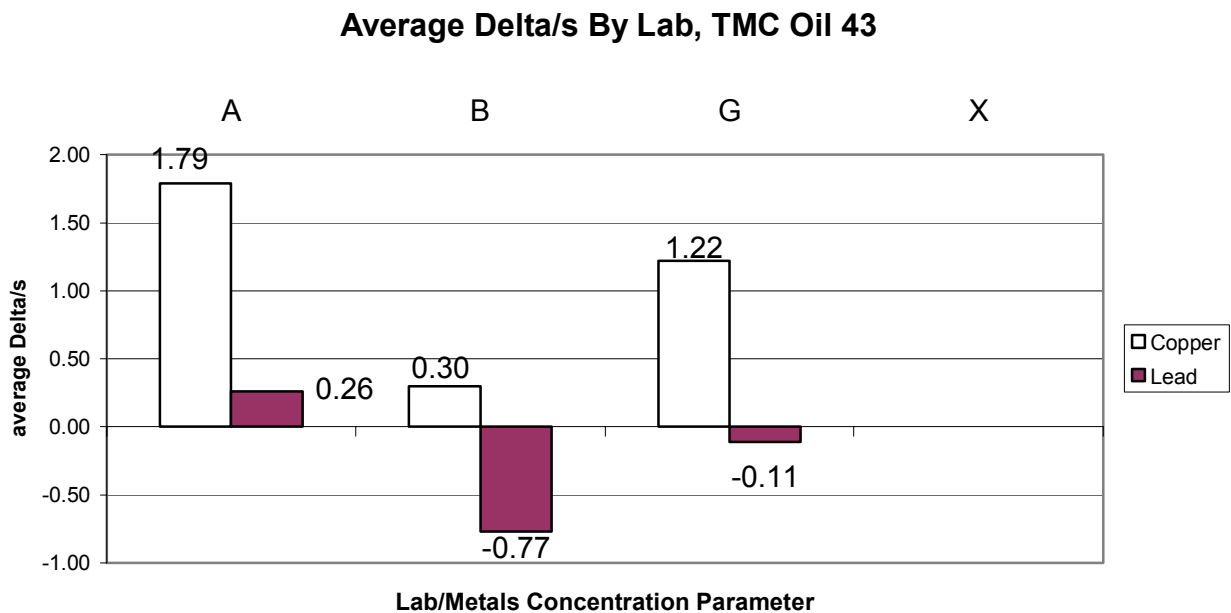
Laboratory Severity and Precision

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



A. Precision estimates for both Copper and Lead show better precision at labs B and G than at lab

The following plot shows the average Δ/s by laboratory and concentration parameter for this ASTM report period.



For both copper and lead, Lab A was the most severe and lab B the most mild.

Reference Oil Supply

Reference oil quantities available at the laboratories and TMC, as well as estimated life of these oils, are tabulated below.

Oil	TMC Inventory, in gallons	TMC Inventory, in tests	Laboratory Inventory, in tests	Estimated life
42	0	0	6	1 month
1005	57.3	~1834	52	6+ years

The TMC supply of oil 42 has been exhausted. The TMC is in the process of obtaining a new reference oil.

Information Letters and Memorandum

No information letters were issued this report 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.

JAC/jac/mem04-082.jac.doc

c: HTCBT Surveillance Panel

<ftp://ftp.astmtmc.cmu.edu/docs/bench/htcbt/semiannualreports/htcbt-10-2004.pdf>

J. L. Zalar

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Distribution: Email

Figure 1
HIGH TEMP CBT INDUSTRY OPERATIONALLY VALID DATA

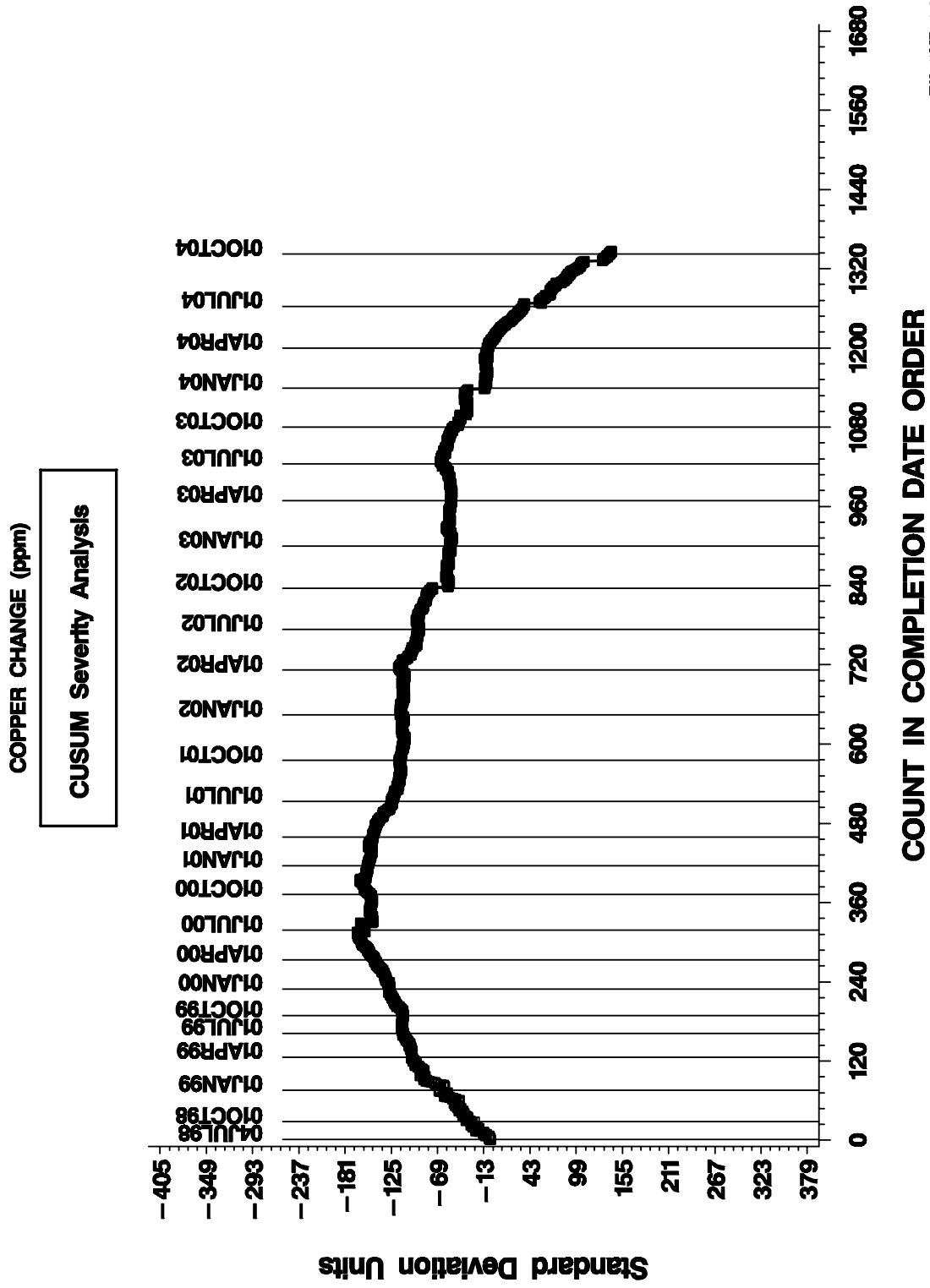


Figure 2
HIGH TEMP CBT INDUSTRY OPERATIONALLY VALID DATA

