Test Monitoring Center
6555 Penn Avenue
Pittsburgh, PA 15206-4489
(412) 365-1000

MEMORANDUM: 06-070

DATE: October 5, 2006

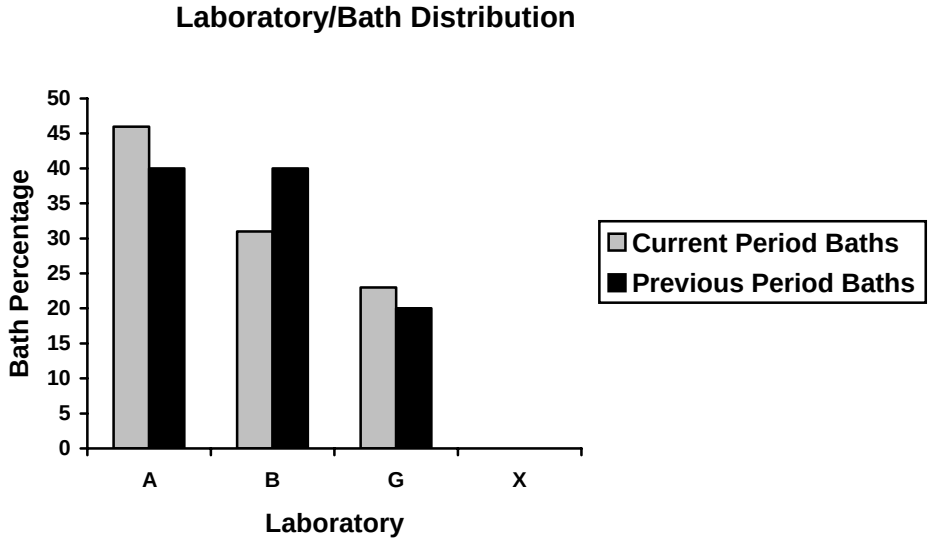
TO: Gil Reinhard, Chairman, CBT Surveillance Panel

FROM: Jeff Clark

SUBJECT: High Temperature Corrosion Bench Testing for the October 2006 Report Period

A total of 179 High Temperature Corrosion Bench Test results from thirteen baths in three labs were reported to the TMC during the October 2006 ASTM report period, which began on April 1, 2006 and ended on September 30, 2006.

The following chart shows the distribution by laboratory.

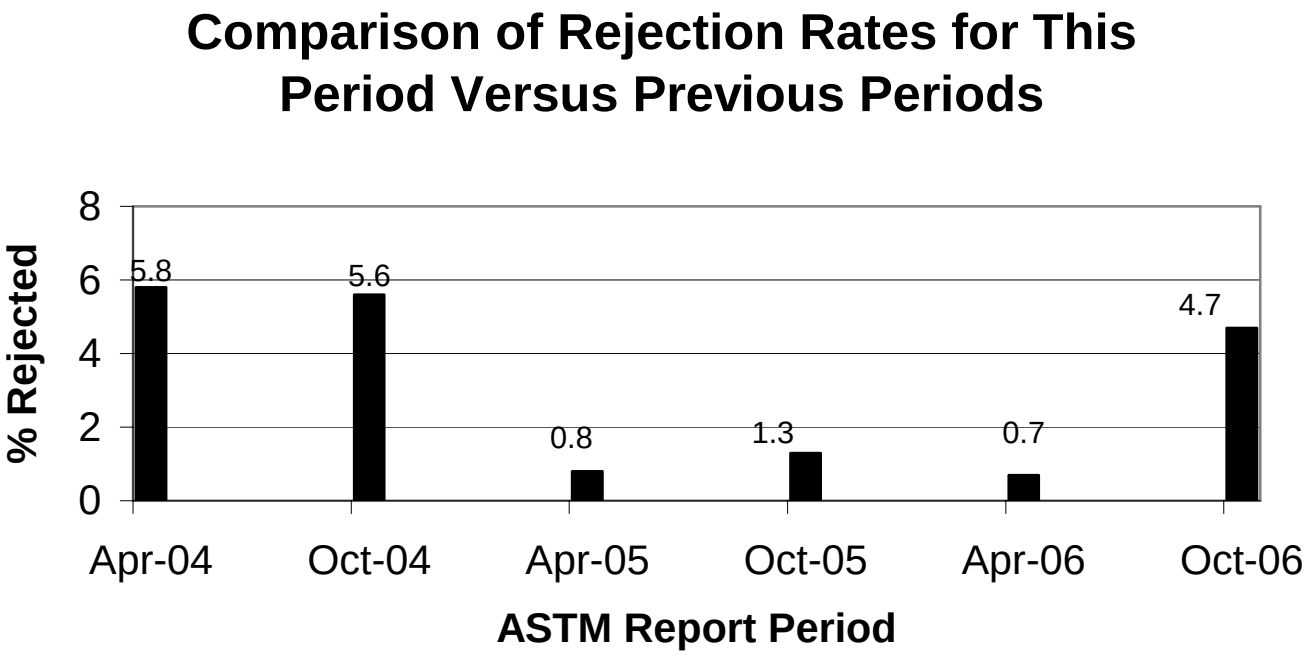


The following summarizes the status of the reference oil tests reported to the TMC:

	TMC Validity Codes	No. of Tests
Operationally and Statistically Acceptable	AC	164
Failed Acceptance Criteria	OC	8
Declared Invalid by Laboratory	LC	5
Aborted	XC	2
Total		179

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.

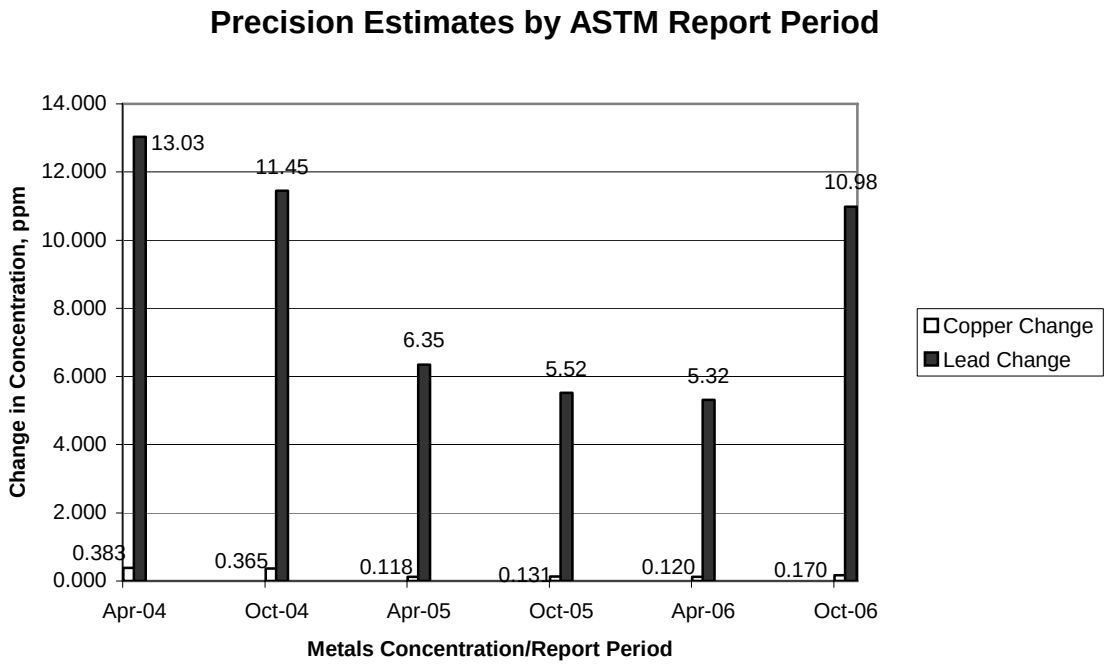


Industry Severity and Precision

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

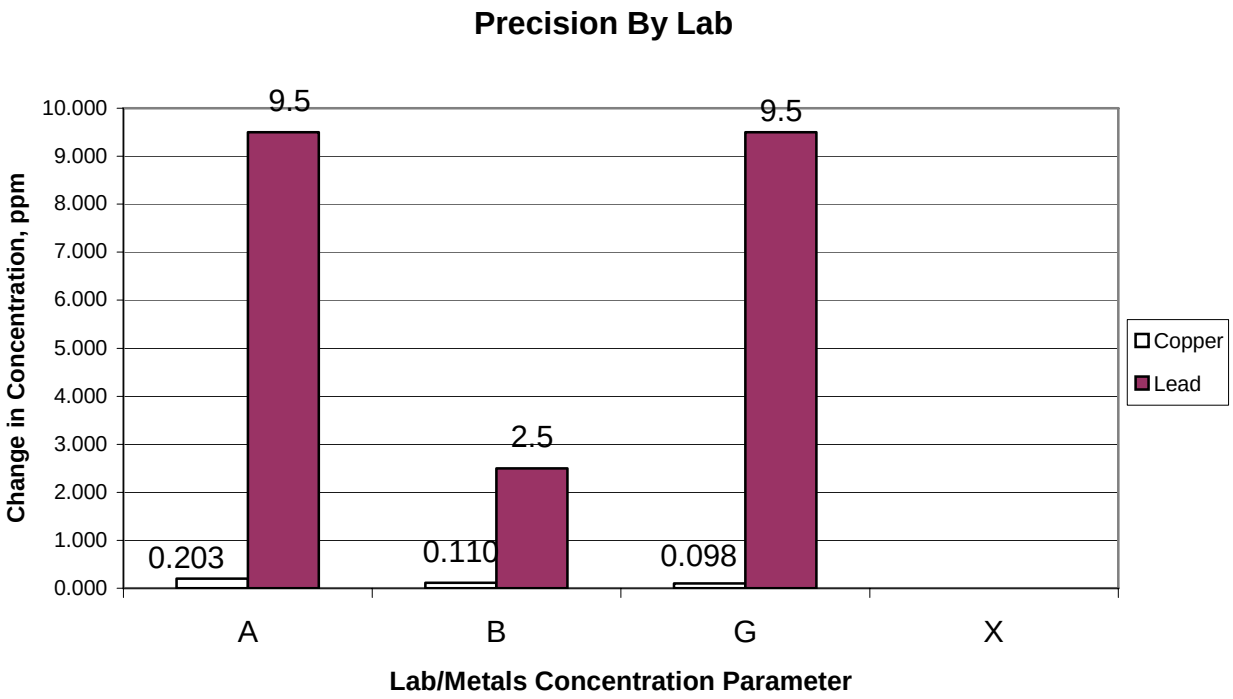
Period	n	Δ Cu Mean Δ/s	Δ Pb Mean Δ/s
4/1/06 through 9/30/06	172	0.90	0.11
10/1/05 through 3/31/06	137	0.50	-0.21
4/1/05 through 9/30/05	154	0.65	-0.28
10/1/04 through 3/31/05	131	0.68	-0.36
4/1/04 through 9/30/04	142	1.03	-0.26

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 slightly severe for the period. Precision estimates, by report period are depicted below. Precision for both Cu change and Pb change show some degradation compared to recent periods, but both are within historical levels.



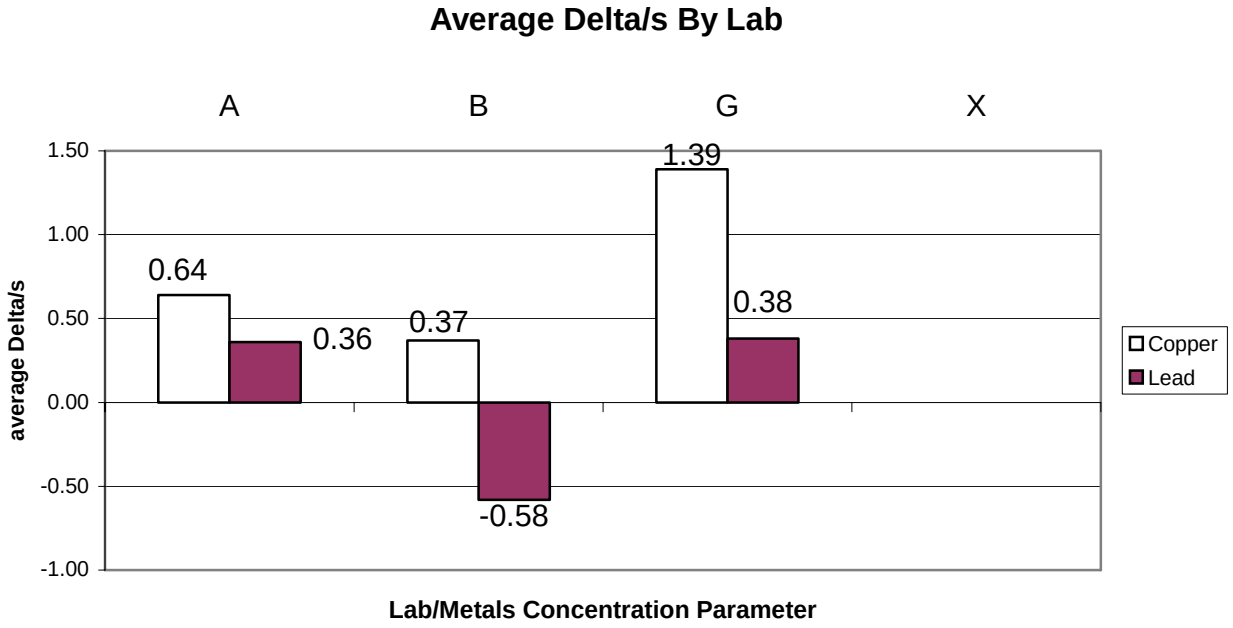
Laboratory Severity and Precision

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



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

The following plot shows the average Δ/s by laboratory and concentration parameter for this ASTM report period. For both copper and lead, Lab G 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 (gallons)	TMC Inventory (tests)	Lab Inventory (tests)	Usage Ratio (%)	Estimated life
1005	32.6	~1040	48	~75	8 years
44	6.0	~192	17	~25	4 years

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.

JAC/jac/mem06-070.jac.doc

c: HTCBT Surveillance Panel
ftp://ftp.astmtmc.cmu.edu/docs/bench/htcbt/semiannualreports/htcbt-10-2006.pdf
J. L. Zalar
F. M. Farber

Distribution: Email

Table 1
Summary of Reasons for Failed Tests

	No. of Tests
Copper, severe	5
Copper, severe and Lead, severe	1
Copper, mild and Lead, severe	1
Lead, mild	1

Table 2
Summary of Reasons for Invalid Tests

	No. of Tests
Disconnected air hose	2
Malfunctioning heat probe	1
Air tube raised out of test fluid	1
Temperature out of spec	1

Table 3
Summary of Reasons for Aborted Tests

	No. of Tests
Temperature out of spec	1
Loss of air flow	1

Figure 1

HIGH TEMP CBT INDUSTRY OPERATIONALLY VALID DATA

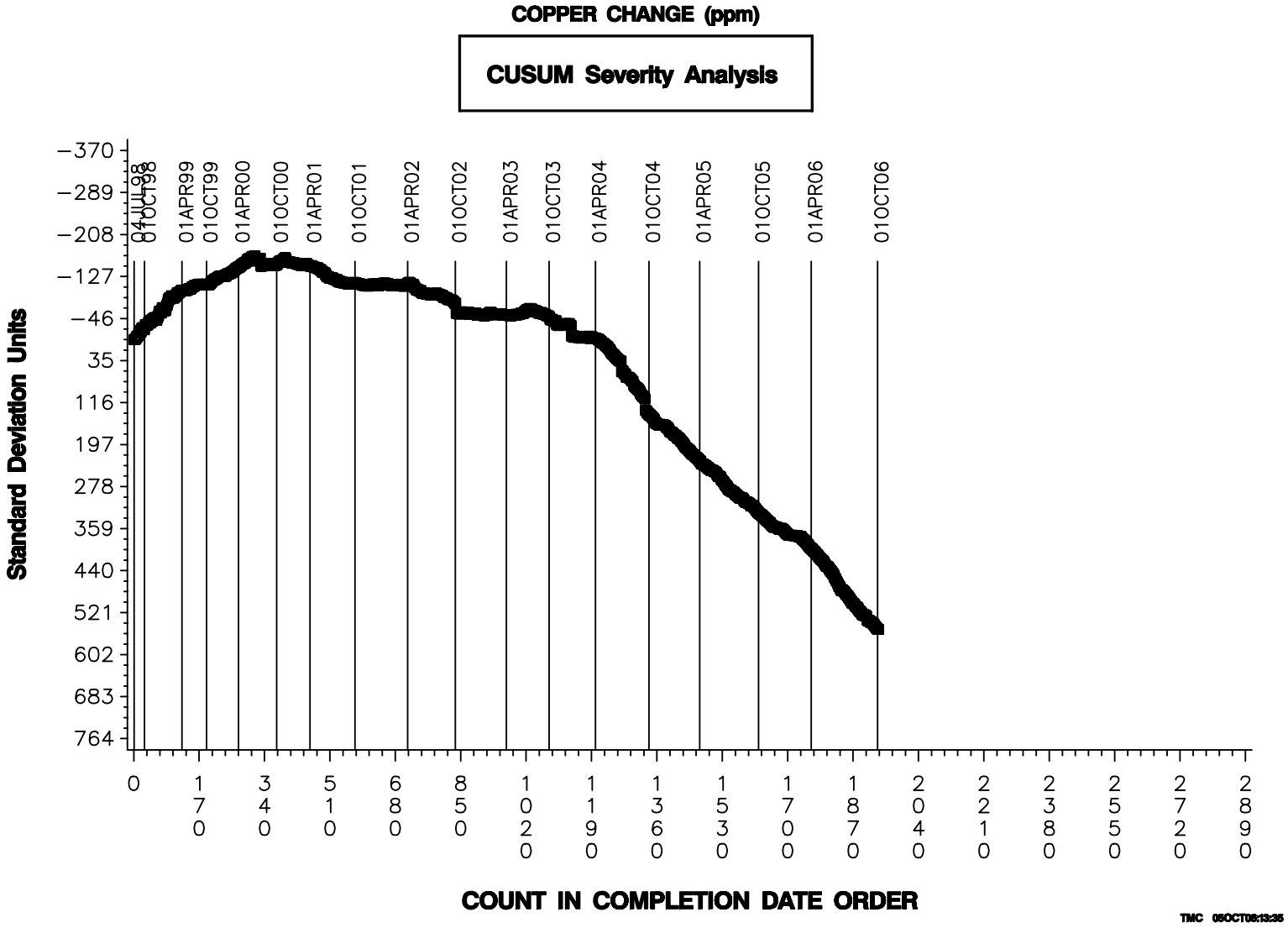


Figure 2

HIGH TEMP CBT INDUSTRY OPERATIONALLY VALID DATA