



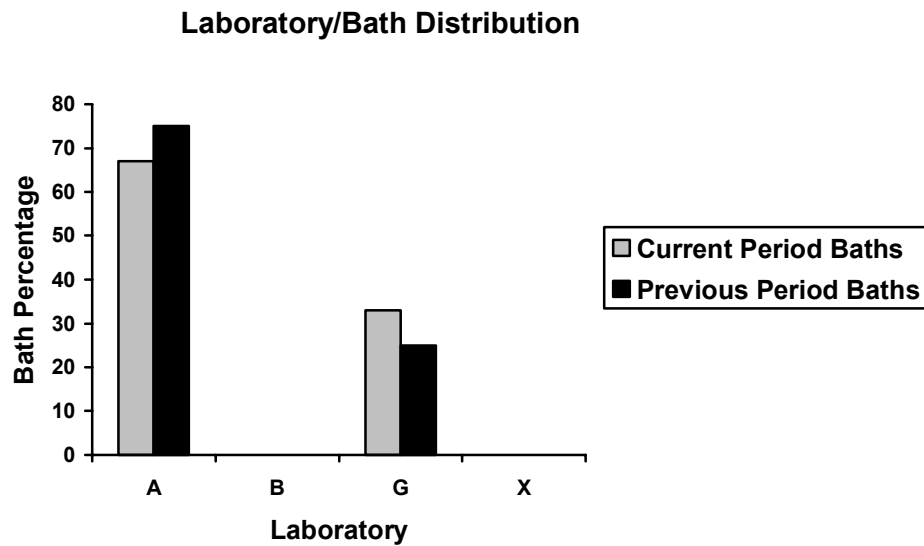
Test Monitoring Center

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

MEMORANDUM: 05-047
DATE: June 7, 2005
TO: Joe Franklin, Chairman, CBT Surveillance Panel
FROM: Jeff Clark
SUBJECT: Corrosion Bench Test Status for the April 2005 ASTM Report Period

A total of 29 Corrosion Bench Test results from three baths in two labs were reported to the TMC during the April 2005 ASTM report period, which began on October 1, 2004 and ended on March 31, 2005.

The following chart shows the distribution by laboratory.



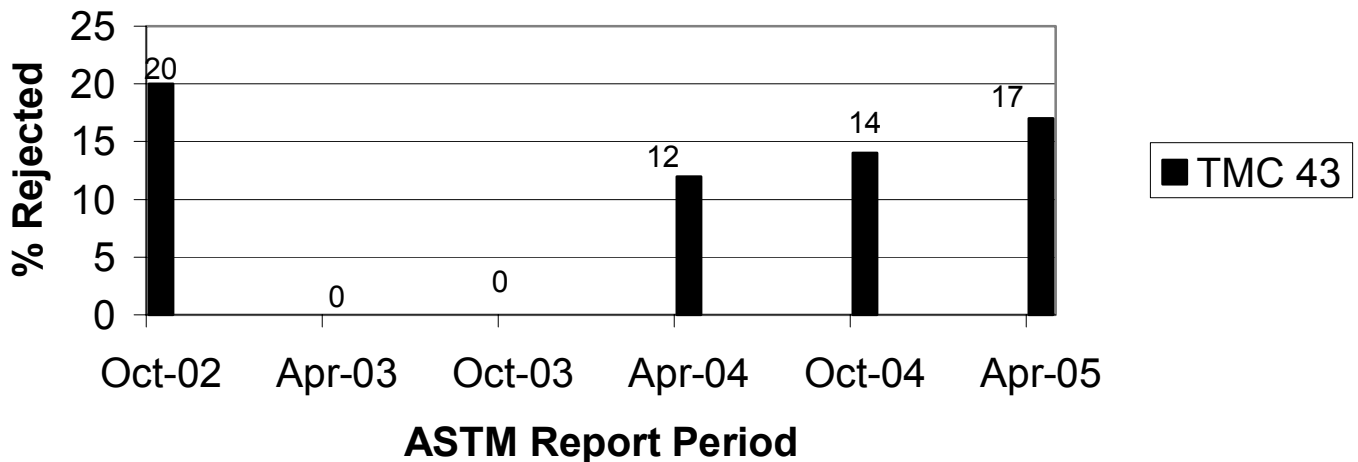
The following summarizes the status of the reference oil tests reported to the TMC:

	TMC Validity Codes	No. of Tests
Operationally and Statistically Acceptable	AC	19
Failed Acceptance Criteria	OC	4
Donated	AG	6
Total		29

Two tests failed the acceptance criteria due to mild lead results; two tests failed the acceptance criteria due to mild lead and mild copper results. The six donated tests were run as the first portion of an industry matrix on a new coupon batch.

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



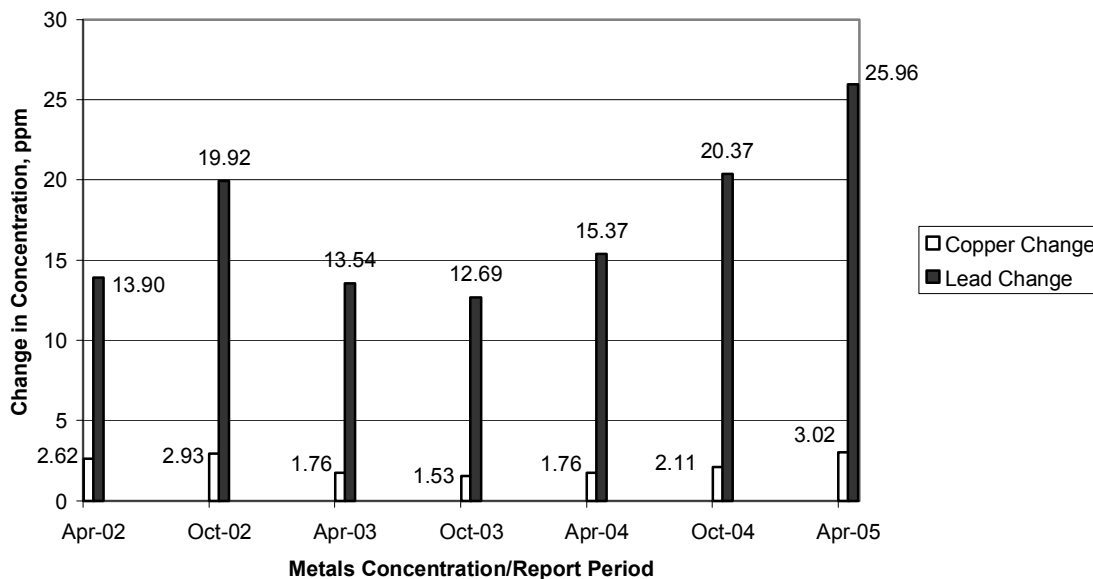
Industry Severity and Precision

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
10/1/04 through 3/31/05	23	-0.50	-1.17
4/1/04 through 9/30/04	29	0.04	0.38
10/1/03 through 3/31/04	33	0.64	1.03
4/1/03 through 9/30/03	27	0.08	0.43
10/1/02 through 3/31/03	29	0.11	-0.04

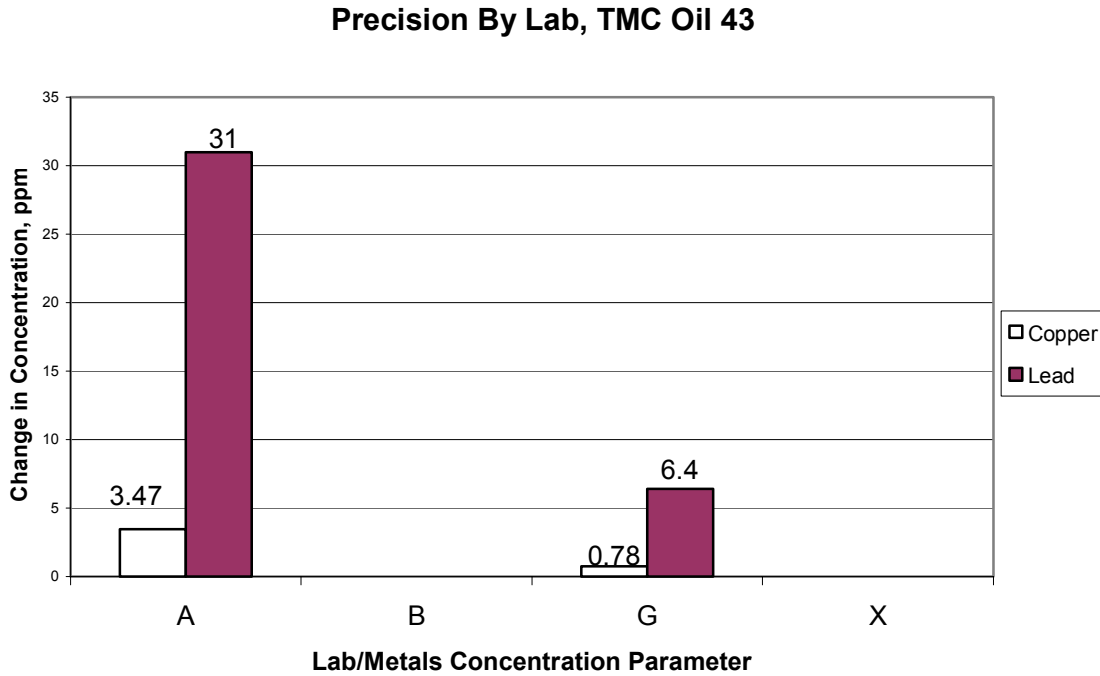
Figures 1 and 2 plot the Summation delta/s from target for both change in copper and change in lead, respectively. Figure 1 shows copper change to be mild for the period. Figure 2 shows lead change to be mild for the period. Precision estimates, by report period are depicted below. Precision for both Cu and Pb change continue to show degradation compared to recent periods (see chart below).

Precision Estimates by ASTM Report Period



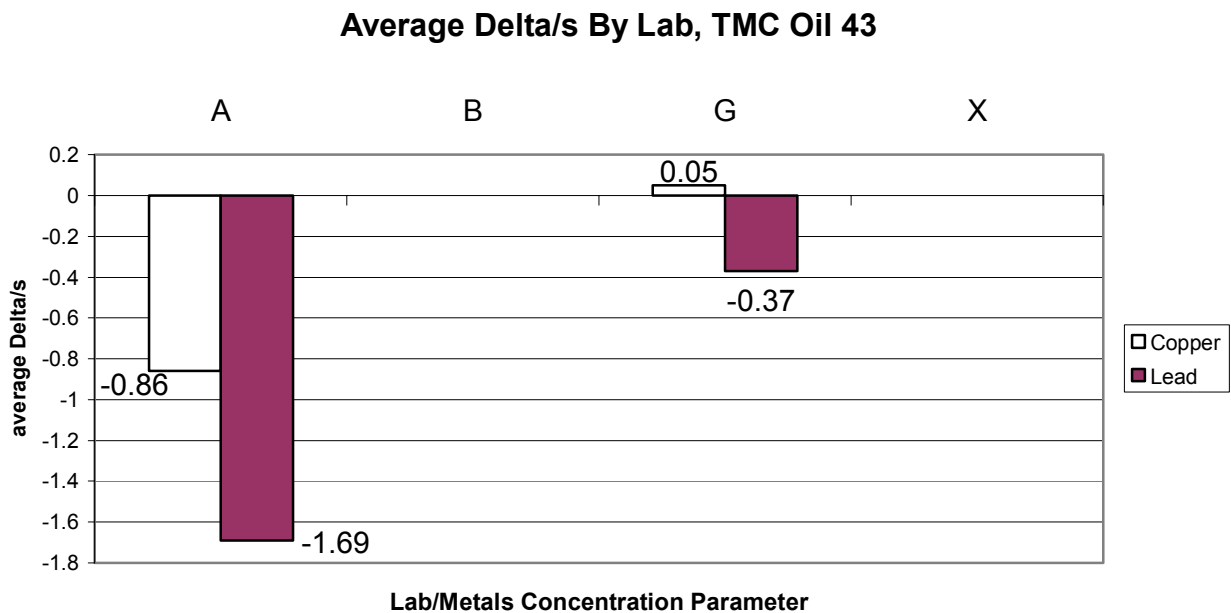
Laboratory Severity and Precision

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



Precision estimates for Copper shows better precision at lab G. Precision estimates for Lead shows better precision at lab G. Precision estimates are not available for labs B and X (no test activity).

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 mild compared to Lab G.

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
43	56.5	~1800	33	10+ Years

Information Letters and Memorandum

No information letters were issued this report period.

Additional Information

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

JAC/jac/mem05-047.jac.doc

c: CBT Surveillance Panel

<ftp://ftp.astmtmc.cmu.edu/docs/bench/cbt/semiannualreports/cbt-04-2005.pdf>

J. L. Zalar

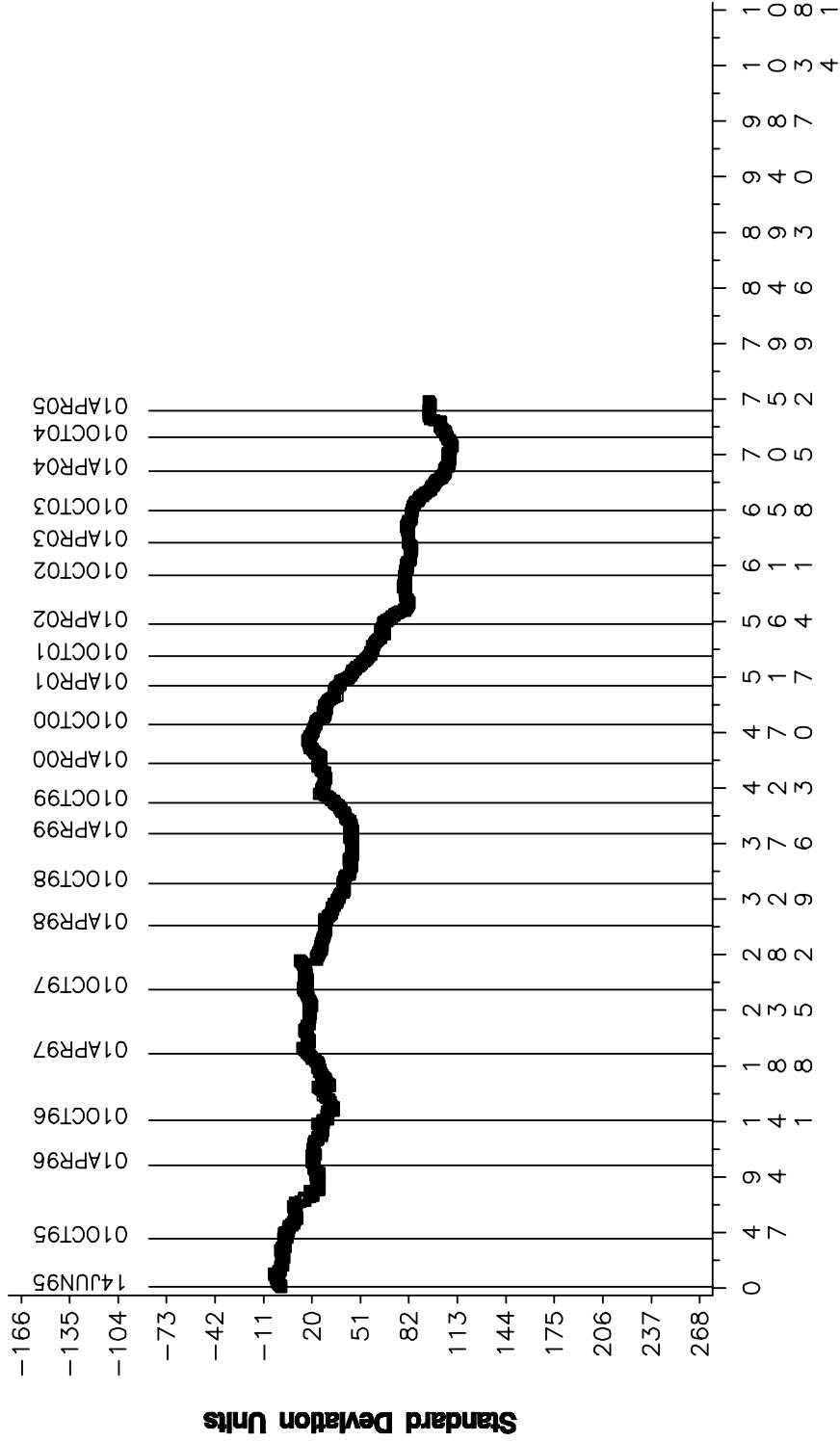
F. M. Farber

Distribution: Email

Figure 1
CBT INDUSTRY OPERATIONALLY VALID DATA

COPPER CHANGE (ppm)

CUSUM Severity Analysis



COUNT IN COMPLETION DATE ORDER

Figure 2
CBT INDUSTRY OPERATIONALLY VALID DATA

