



# Test Monitoring Center

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MEMORANDUM: 15-033

DATE: November 3, 2015

TO: HTCBT Surveillance Panel

FROM: Michael T. Kasimirsky *Michael T. Kasimirsky*

SUBJECT: Reference Oil 1005-5 Initial Test Targets

As approved by the HTCBT Surveillance Panel, Reference Oil 1005-5 is introduced into the calibration system using test targets based upon twelve initial data points. The initial targets are shown in Table 1, below:

Table 1: Reference Oil 1005-5 Initial Test Targets (N=12)			
Parameter	Mean	Standard Deviation	Acceptance Range
Copper Concentration	1.8005	0.1831	4.2 to 8.7
Lead Concentration	10.3	5.8	0.0 to 21.7

The individual test results used in generation of these test targets are shown in Table 2. The individual test results, initial test target acceptance range, and the test target acceptance range for Reference Oils 1005, 1005-1, & 1005-3 for *Copper Concentration* and *Lead Concentration* are plotted in Figures 1 and 2, respectively.

These test targets will be updated when 30 data points are available on this reference oil and will be updated again and frozen six months after this update.

These targets are effective on November 4, 2015.

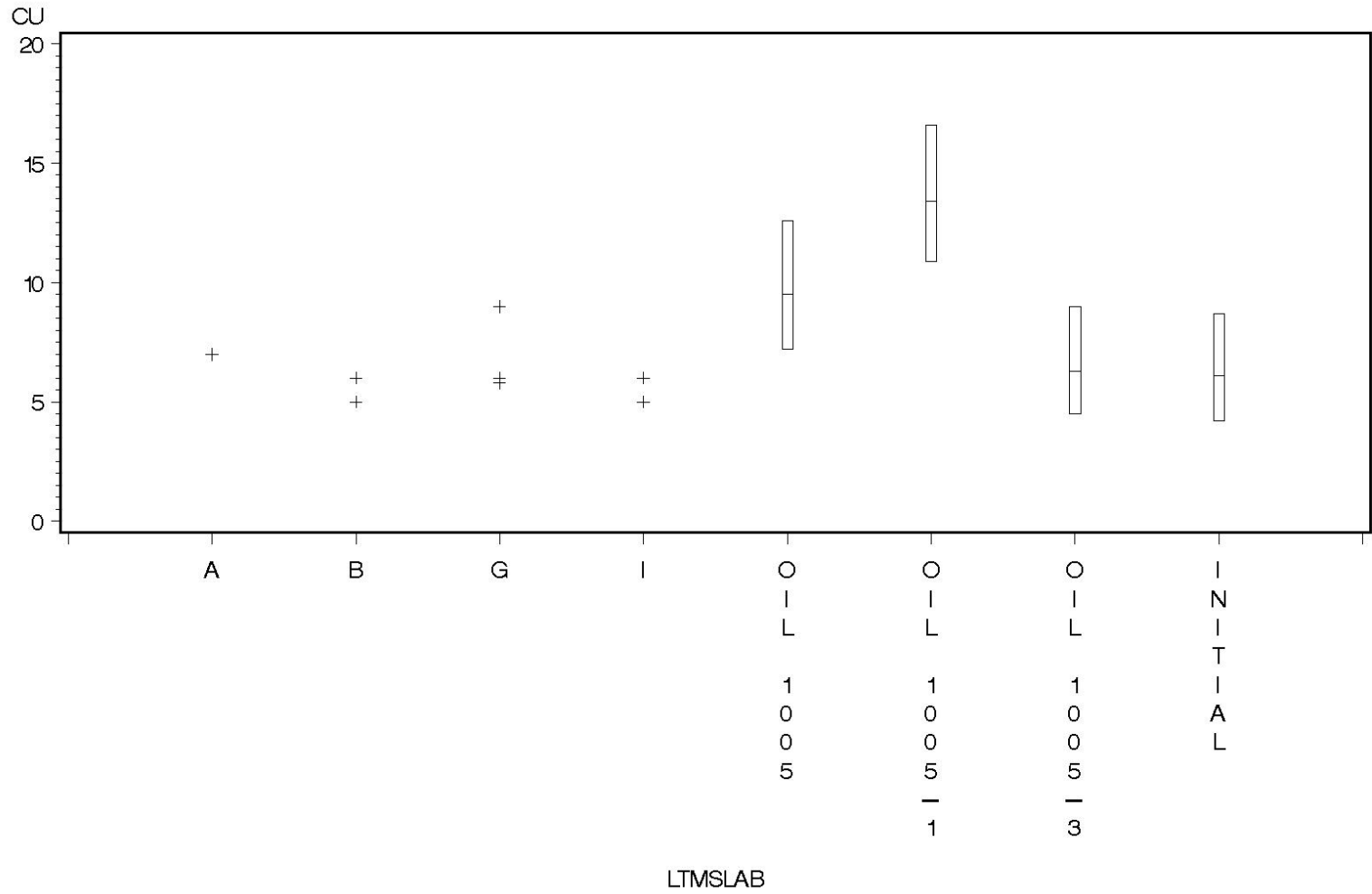
c: [ftp://ftp.astmtmc.cmu.edu/docs/bench/htcvt/memos/mem15-033.pdf](http://ftp.astmtmc.cmu.edu/docs/bench/htcvt/memos/mem15-033.pdf)

Distribution: electronic mail

Table 2: Individual Test Results								
TESTKEY	LAB	BATH	COUPON	DATE	TIME	CUC	CUCti	PBC
112214-HTCBT	B	11	L	20151008	08:05	5.0	1.609437912	6.0
112215-HTCBT	B	11	L	20151008	08:05	6.0	1.791759469	7.0
112216-HTCBT	B	11	L	20151008	08:05	5.0	1.609437912	7.0
112118-HTCBT	A	7	L	20151012	17:18	7.0	1.945910149	16.0
112119-HTCBT	A	7	L	20151012	17:18	7.0	1.945910149	17.0
112120-HTCBT	A	7	L	20151012	17:18	7.0	1.945910149	18.0
112266-HTCBT	G	2	L	20151020	21:30	5.8	1.757857918	6.6
112267-HTCBT	G	2	L	20151020	21:30	6.0	1.791759469	5.7
112268-HTCBT	G	2	L	20151020	21:30	9.0	2.197224577	21.0
112166-HTCBT	I	5	L	20151022	11:00	5	1.609437912	6
112167-HTCBT	I	5	L	20151022	11:00	6	1.791759469	7
112168-HTCBT	I	5	L	20151022	11:00	5	1.609437912	6

### Figure 1: Change in Copper Concentration Test Target Data Set and Acceptance Bands

HTCBT Reference Oil 1005-5



### Figure 2: Change in Lead Concentration Test Target Data Set and Acceptance Bands

HTCBT Reference Oil 1005-5

