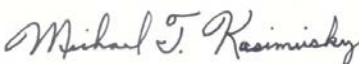




Test Monitoring Center

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<http://astmtmc.cmu.edu>
412-365-1000

MEMORANDUM: 15-050
DATE: December 2, 2015
TO: HTCBT Surveillance Panel
FROM: Michael T. Kasimirsky 
SUBJECT: Reference Oil 1005-5 Updated Test Targets

As approved by the HTCBT Surveillance Panel, the Reference Oil 1005-5 test targets were updated based upon the 30 data points received to date. The update targets are shown in Table 1, below:

Table 1: Reference Oil 1005-5 Updated Test Targets (N=30)			
Parameter	Mean	Standard Deviation	Acceptance Range
Copper Concentration	1.8740	0.2137	4.2 to 10.0
Lead Concentration	11.4	9.1	0.0 to 29.3

The individual test results used in generation of these test targets are shown in Table 2. The individual test results, initial & updated 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 again and frozen based on all tests completed by June 2, 2016.

These targets are effective on December 21, 2015.

c: <ftp://ftp.astmtmc.cmu.edu/docs/bench/htcbt/memos/mem15-050.pdf>

Distribution: electronic mail

Table 2: Individual Test Results

TESTKEY	LAB	BATH	COUPON	VAL	DATE	TIME	CUC	CUCi	PBC
112214-HTCBT	B	11	L	NI	20151008	08:05	5.0	1.609437912	6.0
112215-HTCBT	B	11	L	NI	20151008	08:05	6.0	1.791759469	7.0
112216-HTCBT	B	11	L	NI	20151008	08:05	5.0	1.609437912	7.0
112118-HTCBT	A	7	L	NI	20151012	17:18	7.0	1.945910149	16.0
112119-HTCBT	A	7	L	NI	20151012	17:18	7.0	1.945910149	17.0
112120-HTCBT	A	7	L	NI	20151012	17:18	7.0	1.945910149	18.0
112266-HTCBT	G	2	L	NI	20151020	21:30	5.8	1.757857918	6.6
112267-HTCBT	G	2	L	NI	20151020	21:30	6.0	1.791759469	5.7
112268-HTCBT	G	2	L	NI	20151020	21:30	9.0	2.197224577	21.0
112166-HTCBT	I	5	L	NI	20151022	11:00	5	1.609437912	6
112167-HTCBT	I	5	L	NI	20151022	11:00	6	1.791759469	7
112168-HTCBT	I	5	L	NI	20151022	11:00	5	1.609437912	6
112217-HTCBT	B	2	L	AC	20151117	10:15	6.0	1.791759469	6.0
112169-HTCBT	I	3	K	AC	20151117	11:00	5	1.609437912	3
112218-HTCBT	B	11	L	AC	20151118	13:25	7.0	1.945910149	8.0
112123-HTCBT	A	10	L	OC	20151118	17:02	12.0	2.48490665	46.0
112219-HTCBT	B	10	L	AC	20151119	10:50	8.0	2.079441542	8.0
112171-HTCBT	I	5	K	AC	20151119	11:00	6	1.791759469	2
112122-HTCBT	A	6	L	AC	20151119	16:18	8.0	2.079441542	20.0
112125-HTCBT	A	12	L	AC	20151119	16:47	7.0	1.945910149	8.0
112220-HTCBT	B	6	L	AC	20151120	09:20	6.0	1.791759469	7.0
112121-HTCBT	A	3	L	AC	20151120	13:57	8.0	2.079441542	20.0
112221-HTCBT	B	1	L	AC	20151123	10:10	6.0	1.791759469	8.0
112172-HTCBT	I	4	K	AC	20151125	11:00	5	1.609437912	5
112124-HTCBT	A	5	L	AC	20151125	13:47	8.0	2.079441542	20.0
112315-HTCBT	P	1	J	AC	20151126	09:10	7.2	1.974081026	10
112173-HTCBT	I	5	K	AC	20151126	11:00	5	1.609437912	4
112126-HTCBT	A	7	L	AC	20151130	15:49	8.0	2.079441542	20.0
112170-HTCBT	I	4	K	AC	20151118	11:00	6	1.791759469	3
112128-HTCBT	A	6	K	AC	20151201	16:07	8.0	2.079441542	20.0

Figure 1: Change in Copper Concentration

Test Target Data Set and Acceptance Bands

HTCBT Reference Oil 1005-5

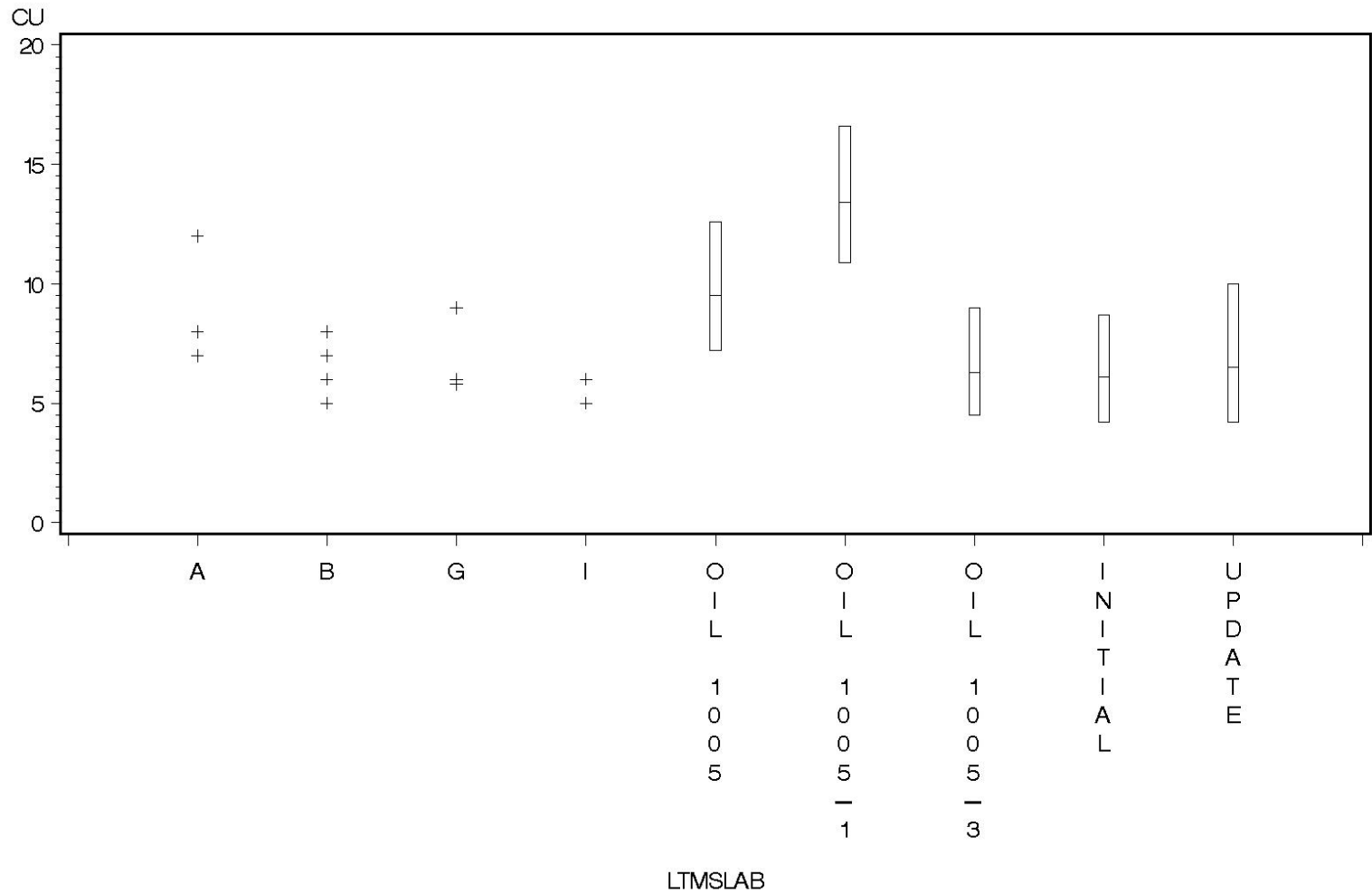


Figure 2: Change in Lead Concentration Test Target Data Set and Acceptance Bands

HTCBT Reference Oil 1005-5

