

Test Monitoring Center

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MEMORANDUM: 23-005

DATE: March 7, 2023

TO: HTCBT Surveillance Panel

FROM: Brittany Pfleegor

SUBJECT: Reference Oil 44-5 Initial Test Targets

In the March 3, 2023 HTCBT surveillance panel meeting, a motion was made and approved to introduce reference oil 44-5 into the calibration system using the test targets based upon 16 data points. The initial targets are shown in Table 1 below:

Table 1: Reference Oil 44-5 Initial Test Targets (N=16)									
Parameter	Mean ^A	Standard Deviation ^A	Acceptance Range						
Copper Concentration ^B	4.7446	0.2071	77 to 172						
Lead Concentration	33	6.3666	20 to 45						

A These values were not rounded or changed

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 44-3 and 44-4 for *Lead Concentration* and *Copper Concentration* are plotted in Figures 1 and 2, respectively.

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

These targets are effective on March 17, 2023.

C: https://astmtmc.org/ftp/docs/bench/htcbt/memos/mem23-005 bjp.pdf

Distribution: Electronic Mail

^B Mean and Standard Deviation in transformed units

Figure 1: Change in Lead Concentration
Test Target Data Set and Acceptance Bands
HTCBT Reference Oil 44-5

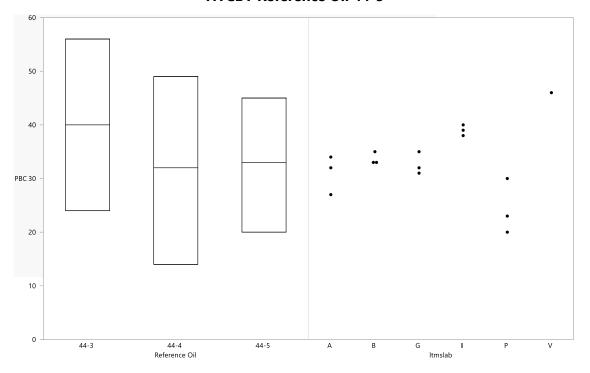


Figure 2: Change in Copper Concentration Test Target Data Set and Acceptance Bands HTCBT Reference Oil 44-5

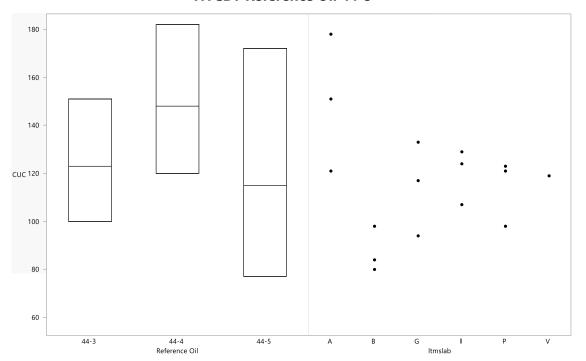


Table 2: Initial Individual Test Results Reference Oil 44-5											
TEST KEY	LAB	BATH NO	COUPON BATCH	DATE	TIME	PBC	CUC	CUCti			
175323-HTCBT	В	1	О	20221005	11:20	35	80	4.382			
175324-HTCBT	В	10	0	20221011	7:43	33	98	4.585			
175325-HTCBT	В	13	0	20221012	8:05	33	84	4.4308			
175314-HTCBT	I	4	0	20221019	11:00	38	129	4.8598			
175316-HTCBT	I	7	0	20221019	11:00	39	107	4.6728			
175315-HTCBT	I	5	0	20221020	11:00	40	124	4.8203			
175312-HTCBT	P	1	0	20221025	10:00	20	123	4.8122			
175311-HTCBT	P	2	О	20221026	10:00	30	98	4.585			
175313-HTCBT	P	2	О	20221102	10:00	23	121	4.7958			
175786-HTCBT	G	2	0	20221102	16:30	35	117	4.7622			
175787-HTCBT	G	1	О	20221103	16:00	32	94	4.5433			
175320-HTCBT	A	1	0	20221104	14:14	32	178	5.1818			
175788-HTCBT	G	2	0	20221109	19:00	31	133	4.8903			
175317-HTCBT	V	4	О	20221116	16:00	46	119	4.7791			
175321-HTCBT	A	2	О	20221117	8:12	34	151	5.0173			
175322-HTCBT	A	5	О	20221118	13:21	27	121	4.7958			