



# Test Monitoring Center

@ Carnegie Mellon University  
6555 Penn Avenue, Pittsburgh, PA 15206, USA

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

MEMORANDUM: 13-018  
DATE: April 10, 2013  
TO: TEOST Bench Test Mailing List  
FROM: Tom Schofield  
SUBJECT: D6335 TEOST-33C Technical Update: Revised Reference Oil Targets

Per the ASTM D02.B0.07 TEOST Surveillance Panel teleconference of 2013-04-09, the panel approved an update of the TMC D6335 TEOST-33C reference oil performance targets and acceptance bands. Effective 2013-04-15, the new reference oil targets and acceptance bands will be:

Oil ID	Parameter	n	Target		95% Acceptance Bands*	
			Mean	sR	Lower	Upper
75	Total Deposits, wt (mg)	30	53.66	6.56	40.8	66.5
435-2	Total Deposits, wt (mg)	30	28.71	4.76	19.4	38.0

\*95% Acceptance Bands = Mean +/- (1.960 x sR)

These updated performance targets and bands include the data from original round robin results used to set the initial targets on the oils when they were first introduced, and additional calibration data to bring the sample sizes (n) up to 30 data points on each oil. The panel had previously agreed to re-evaluate the targets based on the additional calibration data.

The data used for estimating these performance targets follows in Attachment 1, with initial round robin data in green font and subsequent calibration data in blue. Plots of the individual *Total Deposits* test results by lab, and initial & new test target acceptance range spreads for Reference Oils 435-2 & 75 are in Attachment 2, Figures 1 and 2, respectively.

For additional supporting documentation of these changes, please refer to the surveillance panel teleconference minutes of 2013-04-10.

Please direct any inquiries to the TMC.

TMS\tms

c: <ftp://ftp.astmtmc.cmu.edu/docs/bench/teost/memos>

Distribution: Email

**TMC Oil 435-2 Data Set for Estimating New Performance Targets**

TESTKEY	DTCOMP	LAB	APPARATUS	OIL	TDEP	VAL	COM1	COM2
80540-TEOST	20110108	B	B 6	435-2	22.9	AG	SCREENER	435-2 RR
80545-TEOST	20110502	G	G 2	435-2	25.9	AG	SCREENER	435-2 RR
82157-TEOST	20110517	V	V 5	435-2	23.7	AG	GIME	435-2 RR
82158-TEOST	20110517	V	V 5	435-2	27.5	AG	GIME	435-2 RR
82177-TEOST	20110520	G	G 2	435-2	32.2	AG	GIME	435-2 RR
82139-TEOST	20110521	D	D 2	435-2	24	AG	GIME	435-2 RR
82140-TEOST	20110521	D	D 2	435-2	24.2	AG	GIME	435-2 RR
82149-TEOST	20110524	A	A 3	435-2	27.7	AG	GIME	435-2 RR
82150-TEOST	20110524	A	A 3	435-2	31	AG	GIME	435-2 RR
82151-TEOST	20110524	A	A 4	435-2	29.9	AG	GIME	435-2 RR
82152-TEOST	20110524	A	A 4	435-2	25.6	AG	GIME	435-2 RR
82143-TEOST	20110609	B	B 5	435-2	26.4	AG	GIME	435-2 RR
82144-TEOST	20110609	B	B 5	435-2	25	AG	GIME	435-2 RR
82145-TEOST	20110623	B	B 6	435-2	28.4	AG	GIME	435-2 RR
80541-TEOST	20110628	B	B 6	435-2	29.9	AG	GIME	435-2 RR
83542-TEOST	20111213	B	B 5	435-2	39.4	OC	DEPS	
83543-TEOST	20111213	B	B 6	435-2	28.3	AC		
83544-TEOST	20111214	B	B 5	435-2	36.8	OC	DEPS	
83616-TEOST	20111219	A	A 3	435-2	16.8	OC	DEPM	
83545-TEOST	20120402	B	B 5	435-2	28.8	AC		
83618-TEOST	20120405	A	A 3	435-2	32	AC		
83638-TEOST	20120501	G	G 2	435-2	38.6	OC	DEPS	
83639-TEOST	20120503	G	G 2	435-2	31	AC		
83617-TEOST	20120604	A	A 4	435-2	34.9	OC	DEPS	
83619-TEOST	20120625	A	A 4	435-2	30.3	AC		
83546-TEOST	20120628	B	B 6	435-2	27.4	AC		
83547-TEOST	20120706	B	B 5	435-2	28	AC		
83515-TEOST	20120725	D	D 2	435-2	28.9	AC		
83583-TEOST	20120725	V	V 7	435-2	30.6	AC		
87410-TEOST	20121008	A	A 3	435-2	25.1	AC		

**TMC Oil 75 Data Set for Estimating New Performance Targets**

TESTKEY	DTCOMP	LAB	APPARATUS	OIL	TDEP	VAL	CHART	COM1	COM2
80538-TEOST	20110108	B	B 5	75	60.3	AG	Y	SCREENER	75 RR
80543-TEOST	20110503	G	G 2	75	61.3	AG	Y	SCREENER	75 RR
82159-TEOST	20110518	V	V 5	75	54.8	AG	Y	GIME	75 RR
82160-TEOST	20110518	V	V 5	75	58.2	AG	Y	GIME	75 RR
82178-TEOST	20110520	G	G 2	75	53.6	AG	Y	GIME	75 RR
82142-TEOST	20110523	D	D 2	75	48.1	AG	Y	GIME	75 RR
82141-TEOST	20110523	D	D 2	75	47.5	AG	Y	GIME	75 RR
82156-TEOST	20110525	A	A 4	75	65.1	AG	Y	GIME	75 RR
82402-TEOST	20110607	A	A 3	75	55.1	AG	Y	GIME	75 RR
82403-TEOST	20110607	A	A 4	75	63.2	AG	Y	GIME	75 RR
82147-TEOST	20110623	B	B 6	75	52.5	AG	Y	GIME	75 RR
82148-TEOST	20110628	B	B 6	75	51.9	AG	Y	GIME	75 RR
80539-TEOST	20110630	B	B 6	75	52.1	AG	Y	GIME	75 RR
82405-TEOST	20110711	A	A 3	75	48.5	AG	Y	GIME	75 RR
83548-TEOST	20110913	B	B 6	75	47.9	AC	Y		
83586-TEOST	20111102	V	V 7	75	45	AC	Y		
83549-TEOST	20111222	B	B 5	75	56.6	AC	Y		
83620-TEOST	20120104	A	A 3	75	62.3	AC	Y		
83587-TEOST	20120125	V	V 1	75	40.7	OC	Y	DEPM	3RD FAIL
83642-TEOST	20120131	G	G 2	75	59.5	AC	Y		
83621-TEOST	20120210	A	A 4	75	66.8	OC	Y	DEPS	
83622-TEOST	20120306	A	A 4	75	57.8	AC	Y		
83550-TEOST	20120402	B	B 6	75	44.9	AC	Y		
83588-TEOST	20120501	V	V 1	75	46.5	AC	Y		
83551-TEOST	20120628	B	B 5	75	57.5	AC	Y		
83623-TEOST	20120709	A	A 3	75	48.2	AC	Y		
83644-TEOST	20120815	G	G 2	75	52.7	AC	Y		
87411-TEOST	20120929	A	A 4	75	52.6	AC	Y		
83552-TEOST	20121001	B	B 5	75	50.7	AC	Y		
83553-TEOST	20121001	B	B 6	75	48	AC	Y		

Figure 1

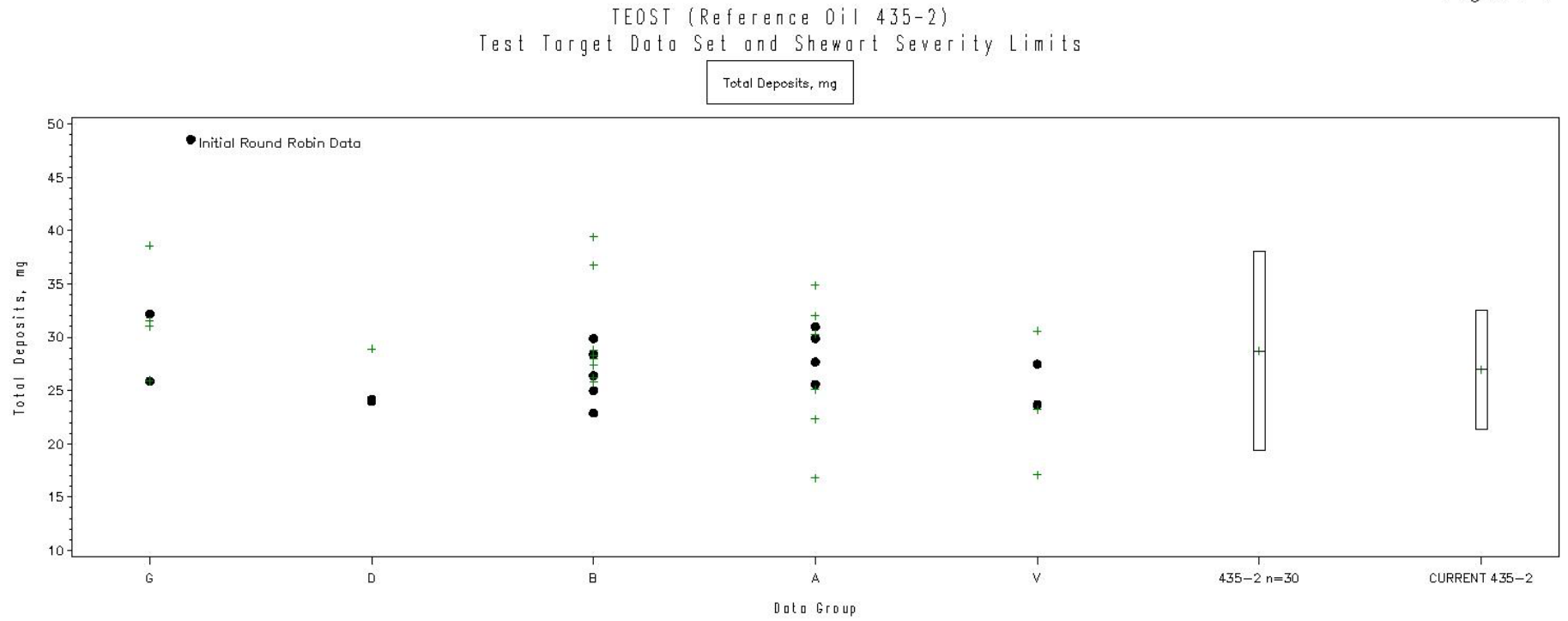


Figure 2

