



Test Monitoring Center

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

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

MEMORANDUM: 18-025
DATE: July 24, 2018
TO: BRT Surveillance Panel
FROM: Michael T. Kasimirsky *Michael T. Kasimirsky*
SUBJECT: Reference Oil 87 Initial Test Targets

As approved by the BRT Surveillance Panel, Reference Oil 87 is introduced into the calibration system using test targets based upon the results of 12 donated test results, with one donated result being removed from the target data set based upon rare event screening defined in Standard Practice E 178.

The initial targets are shown in Table 1, below:

Table 1: Reference Oil 87 Initial Test Targets (N=12)			
Parameter	Mean	Standard Deviation	Acceptance Range
Average Gray Value	119.5	10.8	98 to 141

The individual test results used in generation of these test targets are shown in Table 2, with the screened result shown in red. The individual test results, initial test target acceptance range, and the test target acceptance range for Reference Oil 81 for *Average Gray Value* are plotted in Figure 1.

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

These targets are effective on August 1, 2018.

c: <http://www.astmtmc.cmu.edu/ftp/docs/bench/htcvt/memos/mem18-025.mtk.pdf>

Distribution: electronic mail

Table 2: Individual Test Results					
TESTKEY	LAB	APP	DATE	TIME	AGV
130737-BRT	D	1	20171026	10:15	123
130738-BRT	D	1	20171102	10:00	128
130740-BRT	D	1	20171115	10:15	105
130741-BRT	D	1	20171129	11:45	96
130772-BRT	A	1	20171130	08:30	129
130773-BRT	A	1	20171205	08:30	125
130774-BRT	A	1	20171208	08:30	126
130833-BRT	G	2	20180105	11:03	125
130834-BRT	G	2	20180119	10:45	107
130832-BRT	G	2	20180125	18:15	126
130802-BRT	B	5	20180214	09:15	126
130803-BRT	B	5	20180216	08:40	118
130804-BRT	B	5	20180302	09:15	70

Figure 1: Average Gray Value
Test Target Data Set and Acceptance Bands

BRT Reference Oil 87

