



# Test Monitoring Center

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MEMORANDUM: 04-058

DATE: July 13, 2004

TO: Sequence IVA Surveillance Panel

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

SUBJECT: Reference Oil 1007 Test Target Update

At the November 2001 meeting of the Sequence IVA Surveillance Panel, the panel approved a motion to reintroduce reference oil 1007 into the LTMS using targets generated from 11 donated tests. The motion also required that these targets be updated when a total of 20 and 30 data points became available. The TMC currently has a total of 31 data points, and as such has sufficient data to update the test targets at this time. The updated test targets for this oil are shown below:

Parameter	Mean	Standard Deviation
ACW	84.76	15.40

Any applicable severity adjustments were applied to the data prior to target generation. The data used to generate these targets is shown in Tables 1 & 2. Table 2 contains severity-adjusted data with the adjusted parameters, if any, shown in *red italics*. The above test targets, as well as the severity-adjusted data used to generate them, the raw test targets, the initial test targets, the updated test targets, and the original test targets for reference oil 1007 are shown in Figure 1. These targets are effective for all tests completed on or after July 28, 2004.

MTK/mtk

Attachments

c: John L. Zalar, TMC

<ftp://ftp.astmtmc.cmu.edu/docs/gas/sequenceiva/memos/mem04-058.pdf>

Distribution: Electronic Mail

Table 1 – Unadjusted Data

OILCOD E	LTMSLA B	LTMSAP P	IND	VAL	LTMSDAT E	LTMSTIM E	ACW
37010	C	1	1007	AG	8/10/2000	12:13	110.44
41574	C	1	1007	AC	12/9/2001	22:05	80.6
41575	C	1	1007	AC	12/6/2002	5:16	113.53
35175	B	1	1007	NI	10/15/1999	13:00	67.36
35434	B	1	1007	NI	10/27/1999	1:40	72.27
35704	B	1	1007	AG	7/16/2000	7:35	108
35705	B	3A	1007	AC	8/19/2001	11:42	73.2
41588	B	3A	1007	AC	3/6/2002	9:09	85.19
41589	B	3A	1007	AC	8/10/2003	20:19	83.34
50246	B	1A	1007	AC	6/14/2004	0:37	62
35614	E	1	1007	NI	10/19/1999	18:05	84.81
35616	E1	1	1007	AC	6/11/2001	20:49	67.62
41596	E1	1	1007	AC	6/24/2002	19:43	73.12
41597	E1	1	1007	AC	1/11/2003	14:14	66.03
37670	E1	1	1007	AC	6/12/2004	15:22	64.77
35481	F	1	1007	NI	10/18/1999	21:15	69.82
35482	F	1	1007	AG	7/2/2000	1:10	89.09
34437	F	1	1007	AC	12/19/2001	2:40	63.02
35483	F	1	1007	AC	6/8/2003	10:20	75.6
35167	G	1	1007	AC	6/25/2004	18:00	84.02
35433	A	3	1007	NI	10/14/1999	4:24	97.29
35437	A	3	1007	NI	11/7/1999	22:55	104.04
35438	A	2	1007	NI	11/9/1999	0:12	113.67
35439	A	1	1007	AG	7/16/2000	21:43	96.58
37334	A	5	1007	AC	11/15/2001	0:07	75.28
37335	A	3	1007	AC	11/18/2001	2:20	98.22
43213	A	2	1007	AC	11/20/2002	2:58	85.57
43214	A	2	1007	AC	6/2/2003	22:49	90.82
43215	A	5	1007	AC	10/21/2003	20:02	96.67
43216	A	3	1007	AC	4/30/2004	23:08	82.26
46859	A	1	1007	AC	6/1/2004	13:10	100.94

Table 2 – Severity Adjusted Data

OILCOD E	LTMSLA B	LTMSAP P	IND	VAL	LTMSDAT E	LTMSTIM E	ACW
37010	C	1	1007	AG	8/10/2000	12:13	110.44
41574	C	1	1007	AC	12/9/2001	22:05	80.6
41575	C	1	1007	AC	12/6/2002	5:16	113.53
35175	B	1	1007	NI	10/15/1999	13:00	67.36
35434	B	1	1007	NI	10/27/1999	1:40	72.27
35704	B	1	1007	AG	7/16/2000	7:35	108
35705	B	3A	1007	AC	8/19/2001	11:42	61.739
41588	B	3A	1007	AC	3/6/2002	9:09	85.19
41589	B	3A	1007	AC	8/10/2003	20:19	83.34
50246	B	1A	1007	AC	6/14/2004	0:37	62
35614	E	1	1007	NI	10/19/1999	18:05	84.81
35616	E1	1	1007	AC	6/11/2001	20:49	67.62
41596	E1	1	1007	AC	6/24/2002	19:43	73.12
41597	E1	1	1007	AC	1/11/2003	14:14	75.614
37670	E1	1	1007	AC	6/12/2004	15:22	64.77
35481	F	1	1007	NI	10/18/1999	21:15	69.82
35482	F	1	1007	AG	7/2/2000	1:10	89.09
34437	F	1	1007	AC	12/19/2001	2:40	80.784
35483	F	1	1007	AC	6/8/2003	10:20	75.6
35167	G	1	1007	AC	6/25/2004	18:00	69.934
35433	A	3	1007	NI	10/14/1999	4:24	97.29
35437	A	3	1007	NI	11/7/1999	22:55	104.04
35438	A	2	1007	NI	11/9/1999	0:12	113.67
35439	A	1	1007	AG	7/16/2000	21:43	87.28
37334	A	5	1007	AC	11/15/2001	0:07	75.28
37335	A	3	1007	AC	11/18/2001	2:20	98.22
43213	A	2	1007	AC	11/20/2002	2:58	85.57
43214	A	2	1007	AC	6/2/2003	22:49	90.82
43215	A	5	1007	AC	10/21/2003	20:02	96.67
43216	A	3	1007	AC	4/30/2004	23:08	82.26
46859	A	1	1007	AC	6/1/2004	13:10	100.94

Figure 1

# Sequence IVA Reference Oil 1007 Test Target Data Set and Shewhart Bands

