MEMORANDUM: 02-003

DATE: January 17, 2002

TO: Sequence IIIF Surveillance Panel

FROM: Michael T. Kasimirsky Michael J. Rosiminsky

SUBJECT: Reference Oil 1006-2 Initial Test Targets

At the November 15, 2001 meeting of the Sequence IIIF Surveillance Panel, the panel approved a plan to run a series of five simultaneous reference oil tests on reference oil 1006-2 for the purposes of both stand calibration and test target generation. The final targets for the original blend of reference oil 1006 are shown below:

Final Reference Oil 1006 Test Targets					
Parameter	er Mean Standard Deviation				
PVIS	0.0167362	0.0086503			
APV	9.23	0.213			
WPD	3.32	0.327			
PV60	5.41732	0.230855			

The initial targets for reference oil 1006-2, based on the five data points from the matrix, are shown below:

Initial Reference Oil 1006-2 Test Targets					
Parameter	Mean	Tean Standard Deviation			
PVIS	0.0496678	0.0090039			
APV	9.35	0.283			
WPD	4.18	0.417			
PV60	5.30933	0.168340			

Any applicable severity adjustments were applied to the data prior to target generation. Future updates to the targets will also be severity adjusted according to past practice. The Surveillance Panel has approved a plan to update these targets when the TMC has 10, 20, and 30 data points on this reference oil.

These targets, along with the targets for reference oil 1006-2 and the individual data points, are displayed graphically in the seven attached plots. The first two plots show Percent Viscosity Increase at 80 hours, in transformed and reported units respectively, along with the original 1006 targets for comparison purposes. The third plot is a duplicate of the second plot, with the original 1006 targets removed, to allow the data to be shown on an expanded axis. The fourth shows Weighted Piston Deposits in reported units and the fifth shows Average Piston Varnish in reported units. The sixth and seventh plots show Percent Viscosity Increase at 60 hours (the IIIF-HD parameter) in transformed and reported units, respectively. On the last page are two tables showing the individual reference oil test results used in generation of these targets. The first table is the raw, unadjusted data and the second table is the

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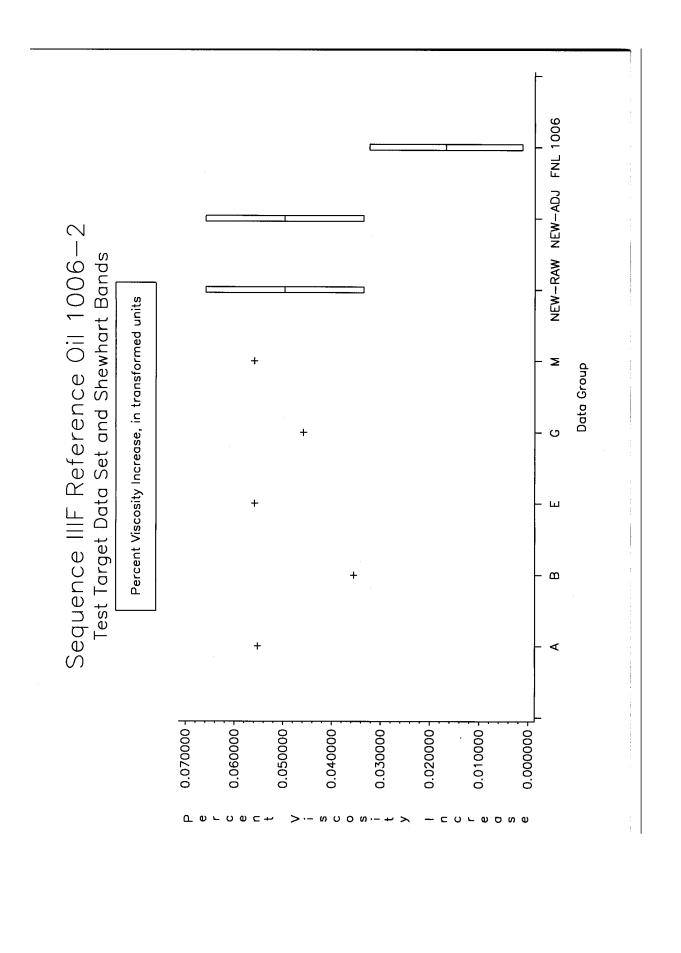
severity adjusted data used to calculate the test targets. These new targets are effective for all tests completed on or after January 9, 2002.

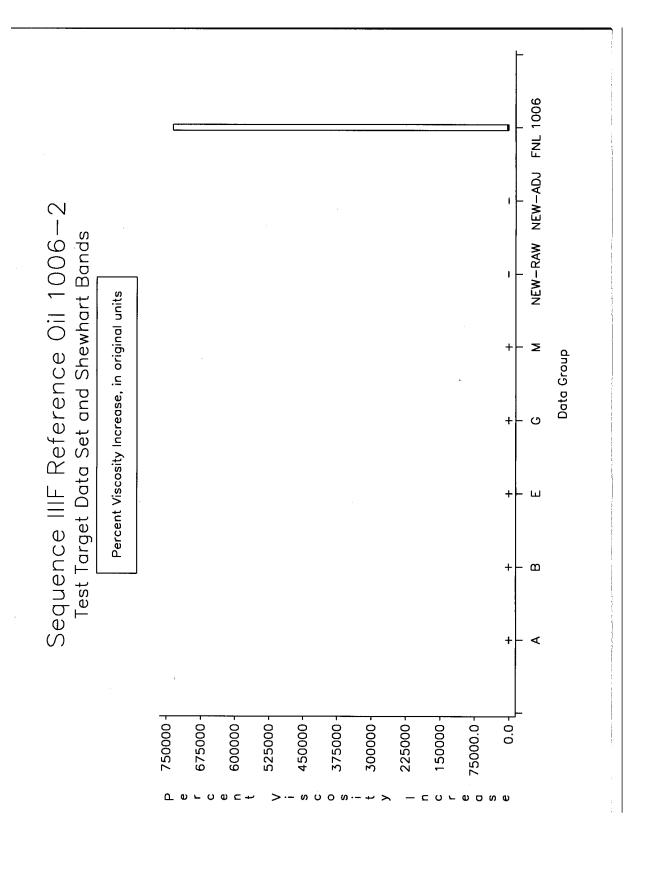
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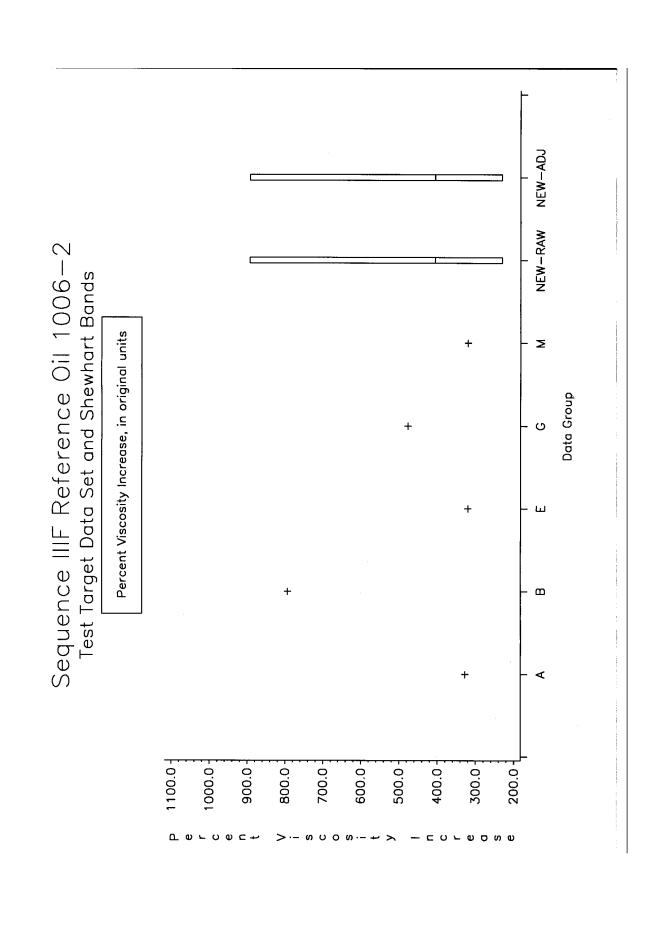
Attachments

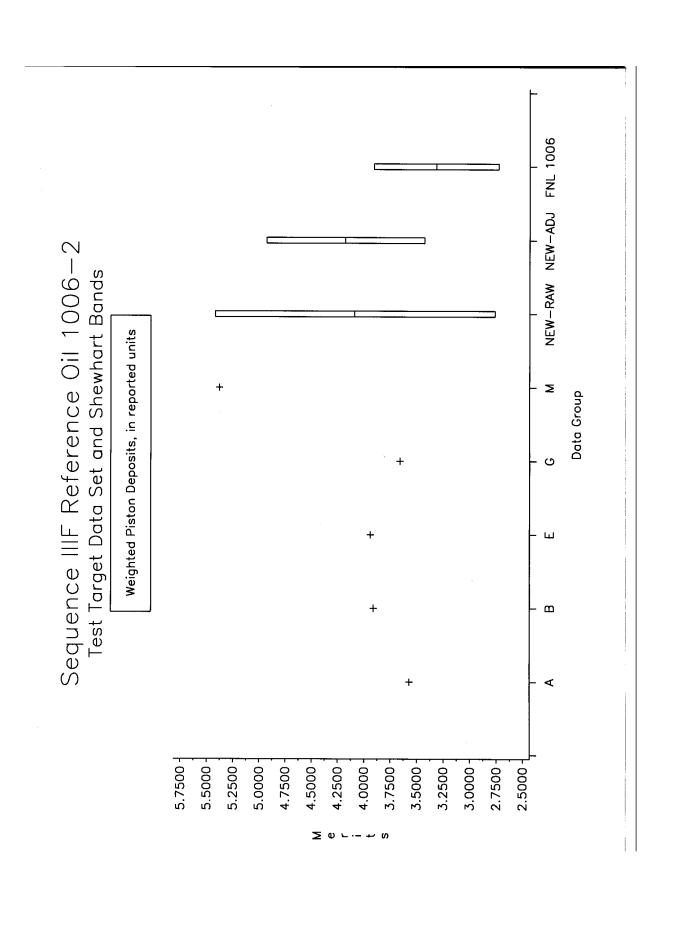
c: John L. Zalar, TMC ftp://www.tmc.astm.cmri.cmu.edu/docs/gas/sequenceiii/memos/mem02-003.pdf

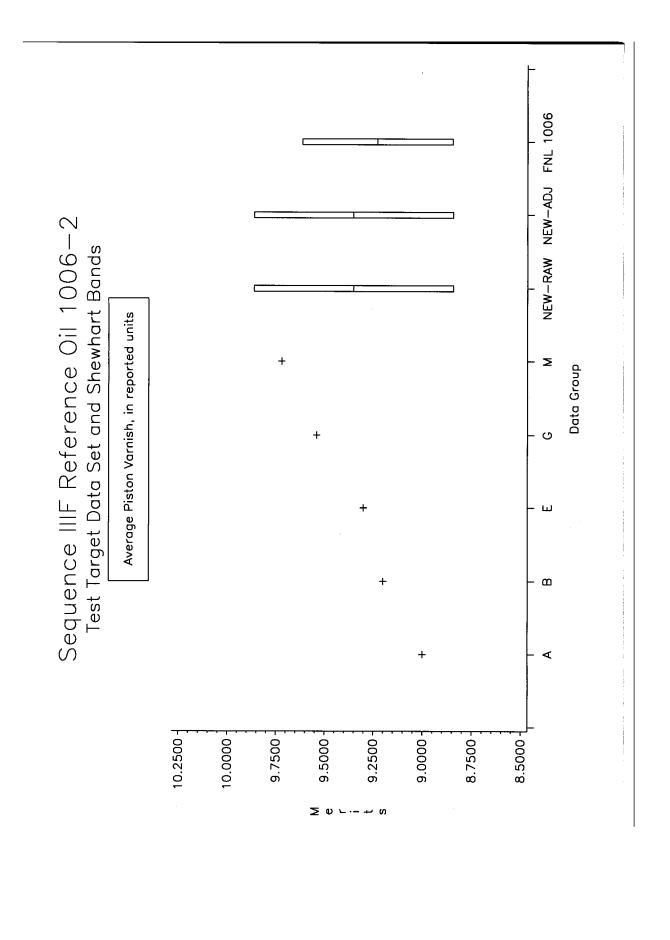
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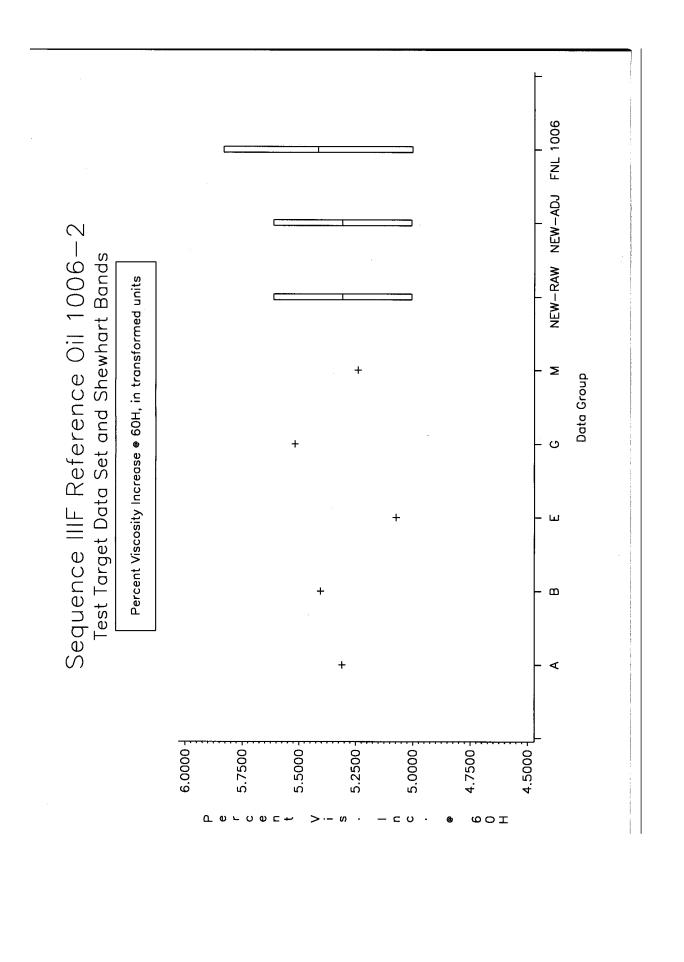












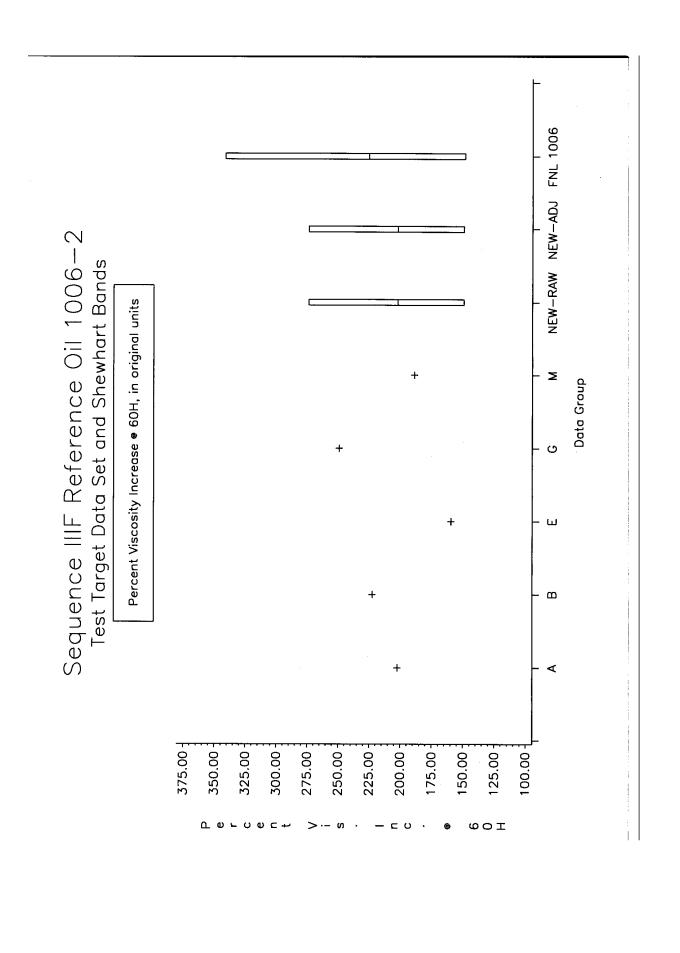


Table 1 - Unadjusted Reference Oil 1006-2 Data

OILCON	2.07	2.87	5.44	5.65	5.43
SACLW	4.7	11.7	14.2	13.2	12.2
ACLW	4.8	11.4	14.3	13	19.6
PV60	159.63	249.16	188.8	222.5	202.37
WPD	3.94	3.66	5.38	3.91	3.57
APV	9.3	9.54	9.72	9.2	o
PVISTI	0.055858	0.045801	0.055928	0.035502	0.055249
PVIS	320.5	476.7	319.7	793.4	327.6
-TMSTIME	1:47	13:16	2:31	10:31	21:31
LTMSDATE 1	1/14/2002	1/12/2002	1/12/2002	1/12/2002	1/10/2002
VAL	AC	AC	00	AC	AC
QN	1006-2	1006-2	1006-2	1006-2	1006-2
LTMSAPP	_	3	2	_	7
LTMSLAB	Ш	ტ	Σ	В	۷
OILCODE	42504	42507	42513	42500	42510

Table 2 – Severity Adjusted Reference Oil 1006-2 Data

OILCON	2.07	2.87	5.44	5.65	5.43
SACLW	4.7	11.7	14.2	13.2	12.2
ACLW	8.4	11.4	14.3	13	19.6
PV60	159.63	249.16	188.8	222.5	202.37
WPD	3.94	4.11	4.91	3.91	4.03
APV	9.3	9.54	9.72	9.2	6
PVISTI	0.055858	0.045801	0.055928	0.035502	0.055249
PVIS	320.5	476.7	319.7	793.4	327.6
LTMSTIME	1:47	13:16	2:31	10:31	21:31
LTMSDATE	1/14/2002	1/12/2002	1/12/2002	1/12/2002	1/10/2002
VAL	AC	AC	00	AC	AC
	1006-2	1006-2	1006-2	1006-2	1006-2
LTMSAPP	_		2	_	7
LTMSLAB	ш	ტ	Σ	В	∢
OILCODE	42504	42507	42513	42500	42510