



# Test Monitoring Center

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MEMORANDUM: 03-057

DATE: May 21, 2003

TO: Gordon R. Farnsworth, Chairman, Sequence VIB Reference Oils and Fuel Subpanel Chair

FROM: Richard Grundza

SUBJECT: Sequence VIB Reference Oil Tests Statistics, Reference Oil 1008-1

The following are the statistics for Sequence VIB reference oil 1008-1, based on twenty test results. These targets are effective for reference oil tests completing on or after May 21, 2003. Targets were calculated using severity adjusted results.

Parameter	Mean	Standard Deviation
FEI1	1.90	0.22
FEI2	1.27	0.21

Figures 1 and 2 plot the results by laboratory and the Shewhart acceptance ranges for FEI1 and FEI2, respectively. Please note that laboratory results in Figures 1 and 2 have not been severity adjusted. Figure 3 summarizes both the uncorrected and corrected results, where appropriate.

Attachments

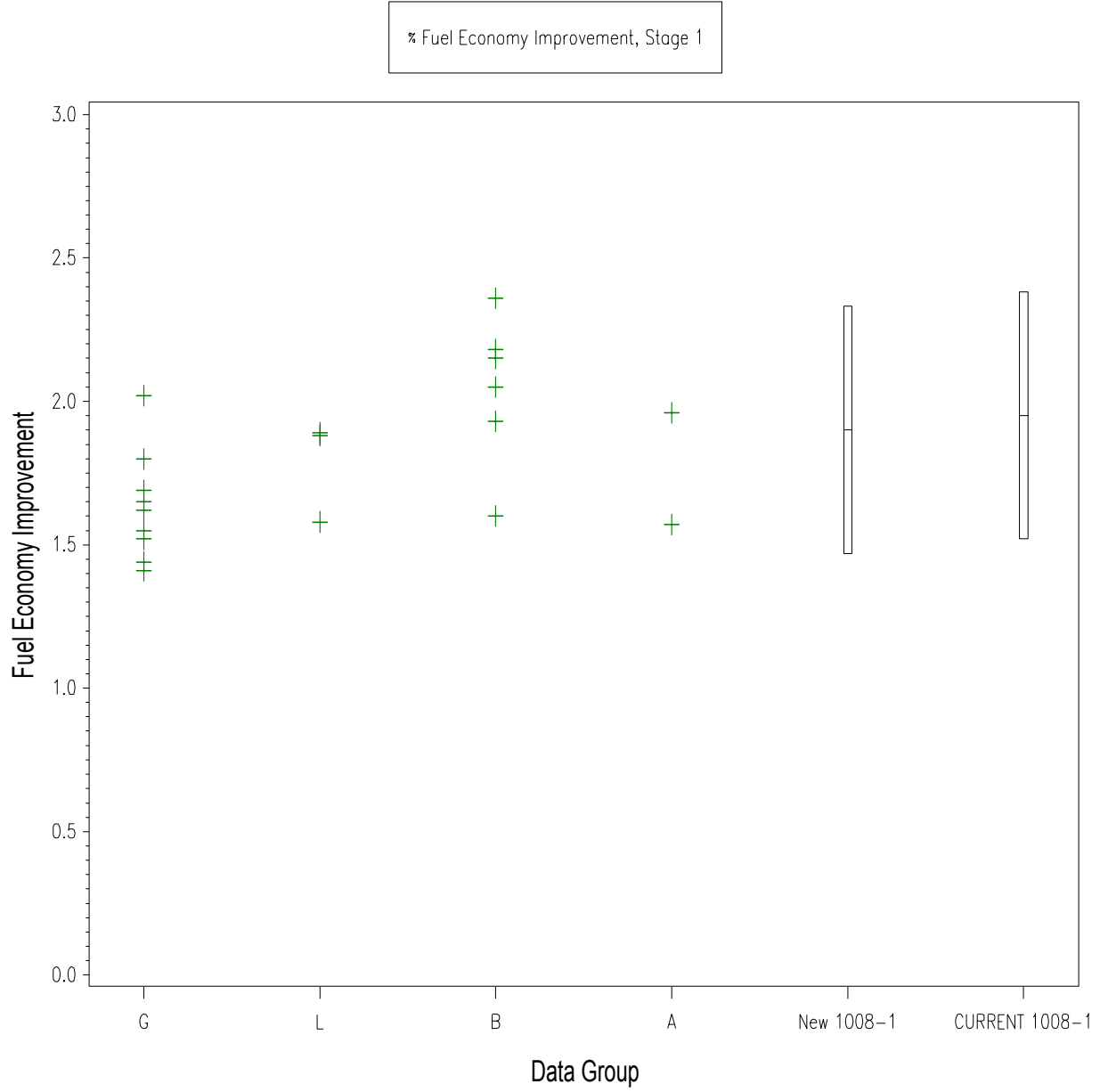
REG/reg

c: Sequence VIB Surveillance Panel  
Sequence VIB Test Engineers  
John Zalar, TMC  
Frank Farber, TMC  
<ftp://ftp.astmtmc.cmu.edu/docs/gas/sequencevi/memos/mem03-057.pdf>

Distribution: email

Figure 1

Sequence VIB (Reference Oil 1008-1)  
Test Target Data Set and Shewart Severity Limits



Sequence VIB (Reference Oil 1008-1)  
Test Target Data Set and Shewart Severity Limits

Figure 2

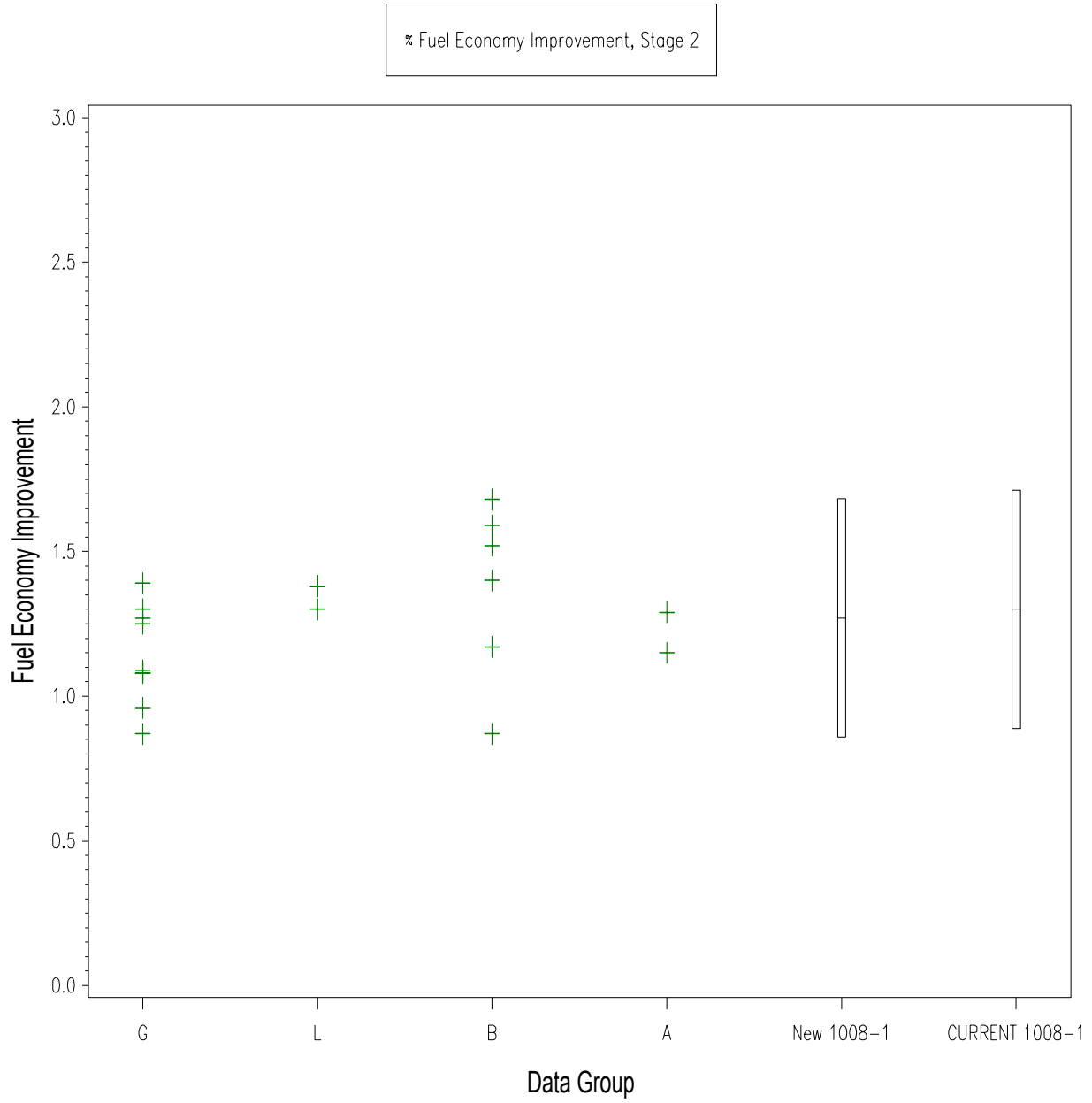


Figure 3

Lab	FEI1	SA	Corrected FEI1	FEI2	SA	Corrected FEI2	New Engine
L	1.88	0.21	2.09	1.30	0.02	1.32	No
B	2.36	-0.24	2.12	1.68	-0.26	1.42	Yes
G	1.55	0.29	1.84	0.96	0.12	1.08	No
A	1.96	0.00	1.96	1.15	0.00	1.15	No
L	1.89	0.22	2.11	1.38	0.03	1.41	No
G	1.80	0.18	1.98	1.30	0.07	1.37	Yes
B	2.05	-0.04	2.01	1.59	-0.11	1.48	No
G	1.62	0.29	1.91	1.39	-0.02	1.37	No
B	1.93	-0.02	1.91	0.87	0.12	0.99	Yes
A	1.57	0.02	1.59	1.29	0.10	1.39	No
B	2.18	0.01	2.19	1.40	0.17	1.57	No
B	1.60	0.10	1.70	1.17	0.04	1.21	Yes
G	1.65	0.10	1.75	1.27	0.00	1.27	No
B	2.15	0.01	2.16	1.52	-0.11	1.41	No
G	1.44	0.15	1.59	0.87	0.13	1.00	Yes
L	1.58	0.21	1.79	1.38	0.04	1.42	No
G	1.41	0.16	1.57	1.09	0.06	1.15	Yes
G	1.69	0.15	1.84	1.08	0.01	1.09	Yes
G	1.52	0.23	1.75	1.08	0.02	1.10	Yes
G	2.02	0.16	2.18	1.25	-0.05	1.20	Yes