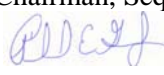




Test Monitoring Center

6555 Penn Avenue
Pittsburgh, PA 15206-4489
(412) 365-1000

MEMORANDUM: 08-004
DATE: February 5, 2008
TO: Charlie Leverett Chairman, Sequence VIB Surveillance Panel Chair
FROM: Richard Grundza 
SUBJECT: Sequence VIB Reference Oil Test Statistics, Reference Oil 538-1

The following are the statistics for Sequence VIB reference oil 538-1, based on 10 test results. These targets are effective for reference oil tests completing on or after February 5, 2008. Targets were calculated using severity adjusted results.

| Parameter | Mean | Standard Deviation |
|-----------|------|--------------------|
| FEI1 | 2.02 | 0.22 |
| FEI2 | 1.53 | 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/mem08-004.pdf>

Distribution: email

Figure 1

Sequence VIB (Reference Oil 538-1) Test Target Data Set and Shewart Severity Limits

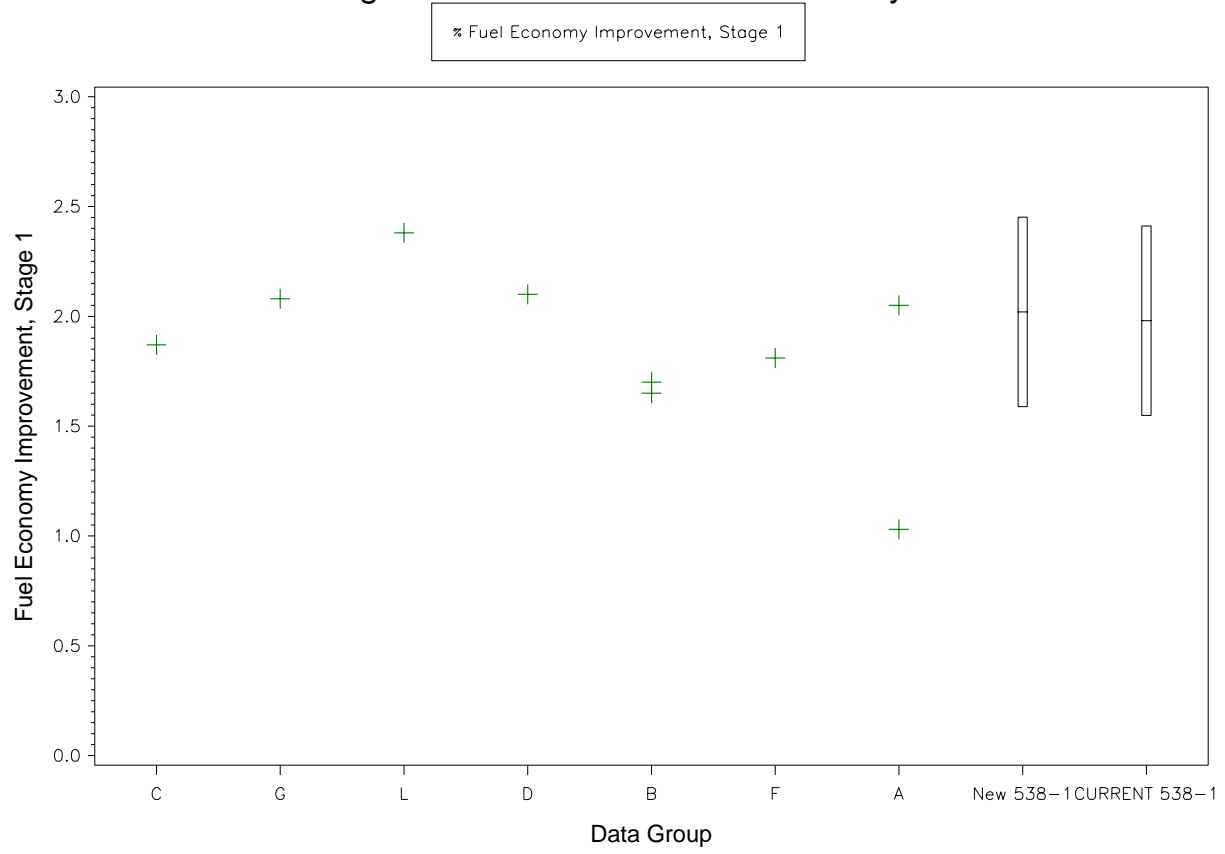


Figure 2

Sequence VIB (Reference Oil 538-1) Test Target Data Set and Shewart Severity Limits

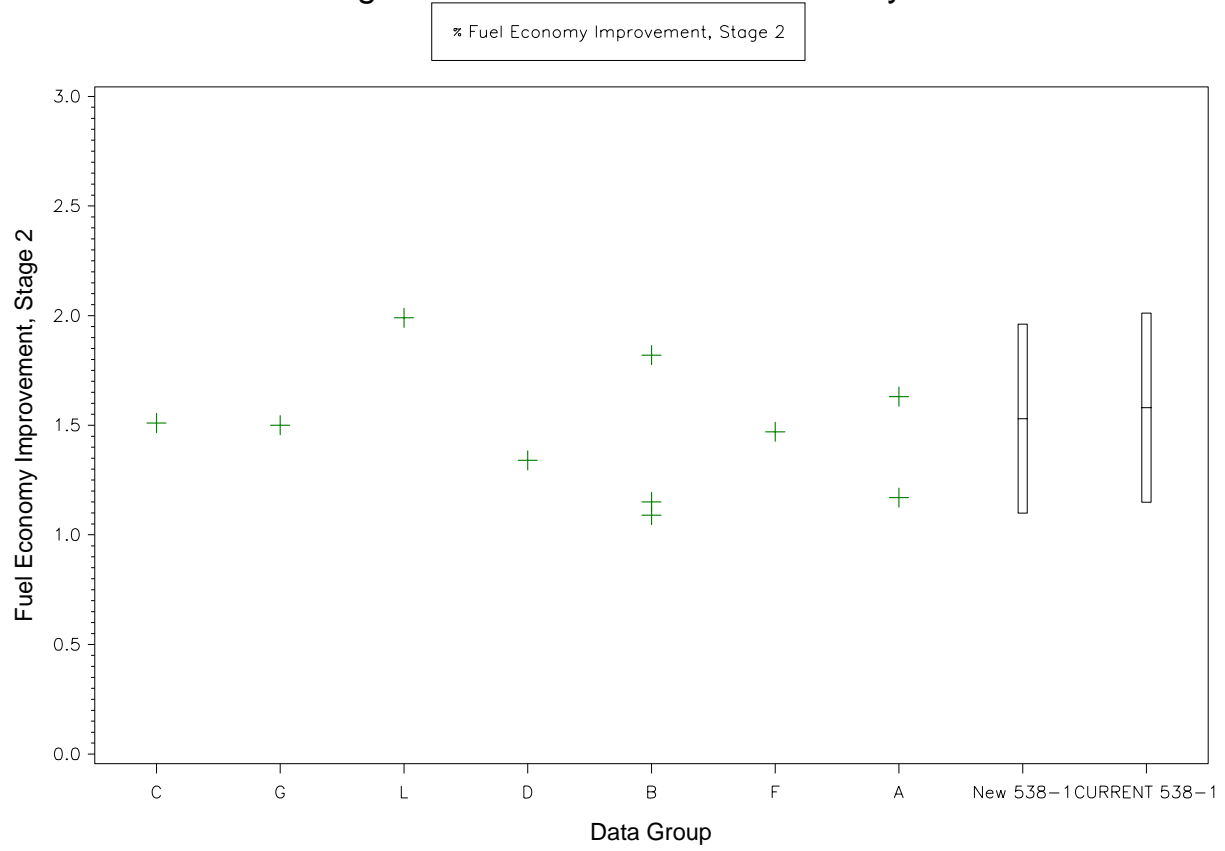


Figure 3

| Lab | FEI1 | SA | Corrected FEI1 | FEI2 | SA | Corrected FEI2 | New Engine |
|-----|------|-------|-------------------|------|-------|-------------------|---------------|
| F | 1.81 | 0.26 | 2.07 | 1.47 | 0.17 | 1.64 | No |
| A | 1.03 | -0.06 | 0.97 | 1.17 | 0.04 | 1.21 | No |
| D | 2.10 | 0.15 | 2.25 | 1.34 | 0.20 | 1.54 | No |
| G | 2.08 | -0.08 | 2.00 | 1.5 | -0.00 | 1.50 | No |
| L | 2.38 | -0.09 | 2.29 | 1.99 | -0.28 | 1.71 | Yes |
| B | 2.56 | -0.30 | 2.26 | 1.82 | -0.07 | 1.75 | No |
| C | 1.87 | 0.18 | 2.05 | 1.51 | 0.22 | 1.73 | Yes |
| A | 2.05 | 0.37 | 2.42 | 1.09 | 0.12 | 1.21 | Yes |
| B | 1.70 | 0.24 | 1.94 | 1.63 | 0.00 | 1.63 | Yes |
| B | 1.65 | 0.27 | 1.92 | 1.15 | 0.27 | 1.42 | Yes |