



# Test Monitoring Center

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**MEMORANDUM:** 07-047  
**DATE:** September 6, 2007  
**TO:** Mack Test Surveillance Panel  
**FROM:** Jeff Clark  
**SUBJECT:** T-11 Reference Oil Test Target Update

As approved by the Mack Test Surveillance Panel, the eleven test targets for T-11 reference oil 820-3 are shown in the table below. These targets are effective September 7, 2007. Attached is the T-11 target dataset as well as plots showing the lab distribution for all test parameters. Please contact me if you have any questions.

**T-11 Reference Oil 820-3 Eleven Test Targets**

| Parameter                            | Mean  | Std. Deviation |
|--------------------------------------|-------|----------------|
| Soot at 4 cSt Viscosity Increase, %  | 3.95  | 0.30           |
| Soot at 12 cSt Viscosity Increase, % | 5.92  | 0.22           |
| Soot at 15 cSt Viscosity Increase, % | 6.51  | 0.20           |
| MRV Viscosity, cP                    | 14981 | 916            |

JAC/jac /mem07-047.jac.doc

c: <ftp://ftp.astmtmc.cmu.edu/docs/diesel/mack/memos/mem07-047.pdf>

Frank Farber  
John Zalar

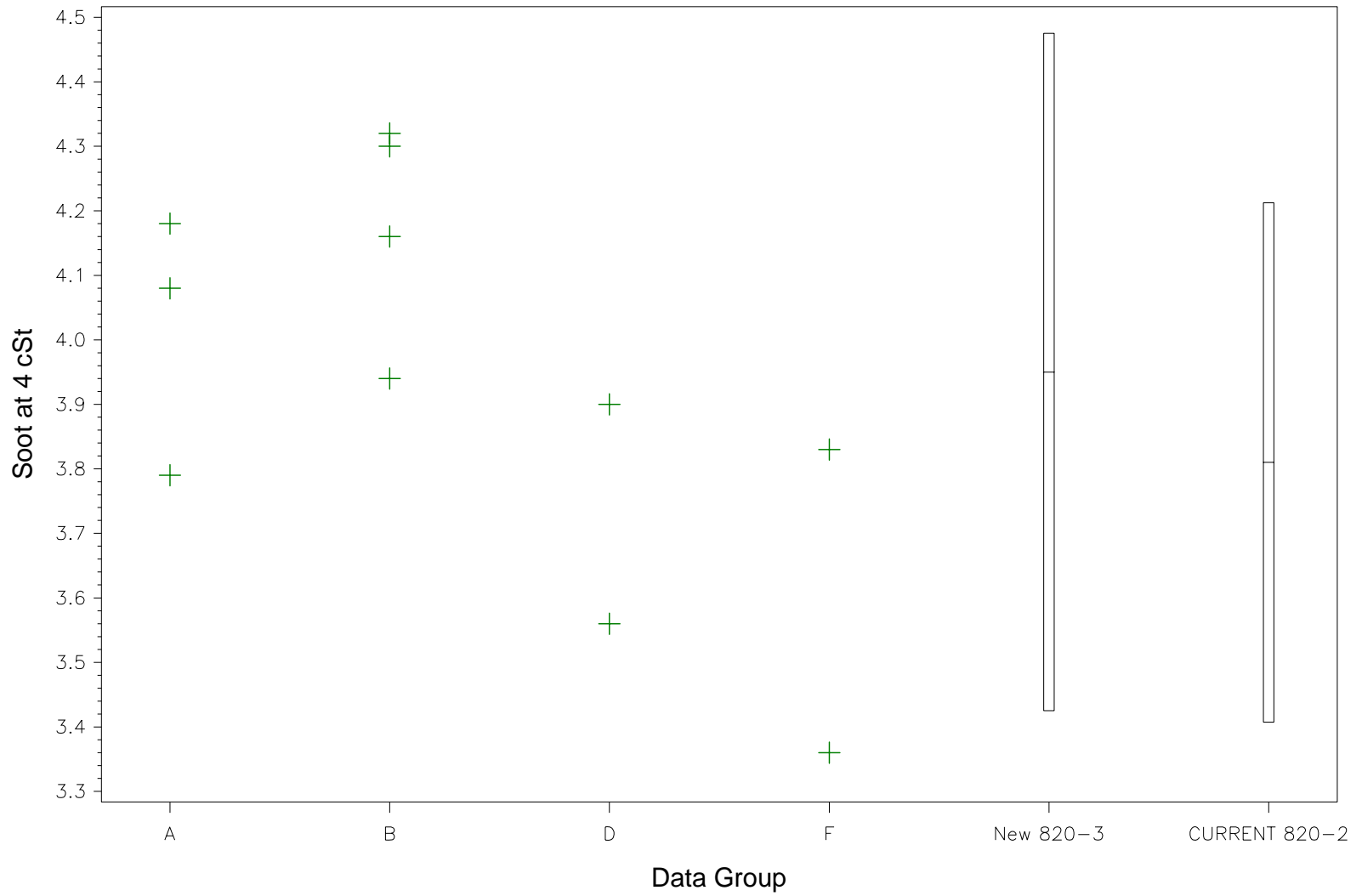
Distribution: email

**T-11 Reference Oil 820-3  
Eleven Test Target Dataset**

| <u>CMIR</u> | <u>LAB</u> | <u>EOT</u> | <u>Soot at 4 cSt</u> | <u>Soot at 12 cSt</u> | <u>Soot at 15 cSt</u> | <u>MRV</u> |
|-------------|------------|------------|----------------------|-----------------------|-----------------------|------------|
| 61452       | F          | 20061202   | 3.83                 | 5.83                  | 6.45                  | 16656      |
| 61450       | B          | 20061209   | 4.32                 | 6.36                  | 6.8                   | 14556      |
| 61445       | A          | 20061220   | 4.08                 | 5.76                  | 6.28                  | 13756      |
| 61451       | B          | 20061224   | 3.94                 | 5.71                  | 6.59                  | 15856      |
| 61448       | D          | 20070214   | 3.56                 | 5.67                  | 6.19                  | 15627      |
| 62060       | B          | 20070421   | 4.3                  | 6.11                  | 6.71                  | 14656      |
| 61453       | F          | 20070527   | 3.36                 | 6.05                  | 6.66                  | 15056      |
| 61449       | D          | 20070602   | 3.9                  | 5.65                  | 6.25                  | 15858      |
| 61446       | A          | 20070603   | 3.79                 | 5.93                  | 6.59                  | 14356      |
| 62061       | B          | 20070622   | 4.16                 | 6.12                  | 6.62                  | 14556      |
| 61447       | A          | 20070710   | 4.18                 | 5.88                  | 6.47                  | 13856      |

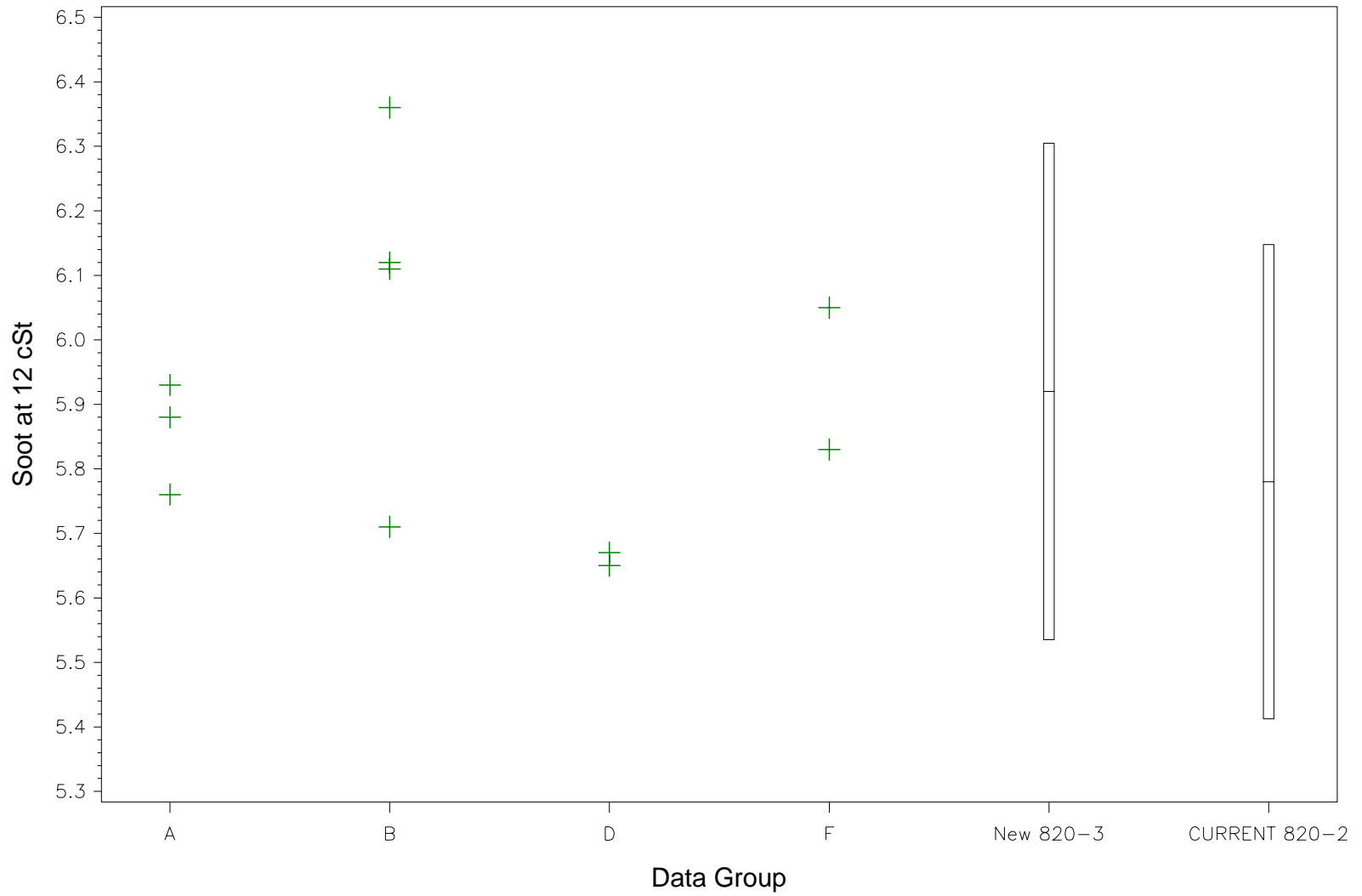
T-11: Reference Oil 820-3  
Test Target Data Set and Shewart Severity Limits

Soot at 4 cSt



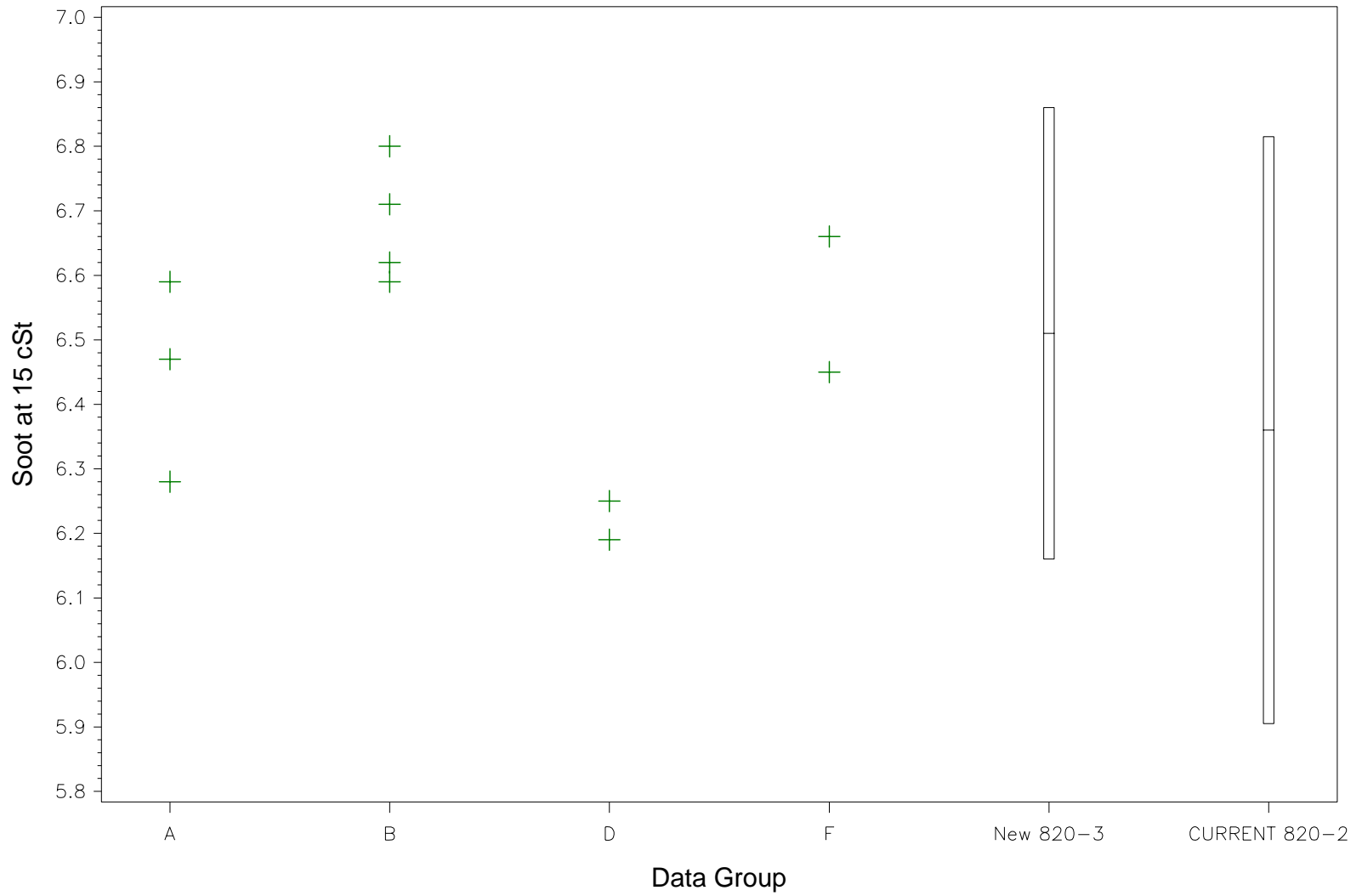
T-11: Reference Oil 820-3  
Test Target Data Set and Shewart Severity Limits

Soot at 12 cSt



T-11: Reference Oil 820-3  
Test Target Data Set and Shewart Severity Limits

Soot at 15 cSt



T-11: Reference Oil 820-3  
Test Target Data Set and Shewart Severity Limits

MRV at 180 Hours

