



## Test Monitoring Center

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MEMORANDUM: 13-012  
DATE: March 11, 2013  
TO: Mack Test Surveillance Panel  
FROM: Sean A. Moyer  
SUBJECT: Targets for Reference Oil 822-1

On the March 5<sup>th</sup> Mack Test Surveillance Panel conference call, the panel approved the use of reference oil 822-1 based upon data presented at the meeting. Please note that these targets were generated using data with all correction factors and lab severity adjustments applied. The updated targets which went into effect immediately are shown in the following table:

Parameter	Mean	Standard Deviation
SOOT4	3.99	0.21
SOOT	5.65	0.54
SOOT5	6.35	0.66
MRV	14408	314

Attached Figures 1 through 4 plot the data against targets for SOOT4, SOOT, SOOT5 and MRV. Table 1 lists the corrected and severity adjusted data for reference oil 822-1 that was used in the target calculation.

<ftp://ftp.astmtmc.cmu.edu/docs/diesel/mack/memos/mem13-012.pdf>

c: Frank Farber, TMC  
Jeff Clark, TMC

Distribution: Email

Figure 1

Mack T11 (Reference Oil 822-1)  
Test Target Data Set and Shewart Severity Limits

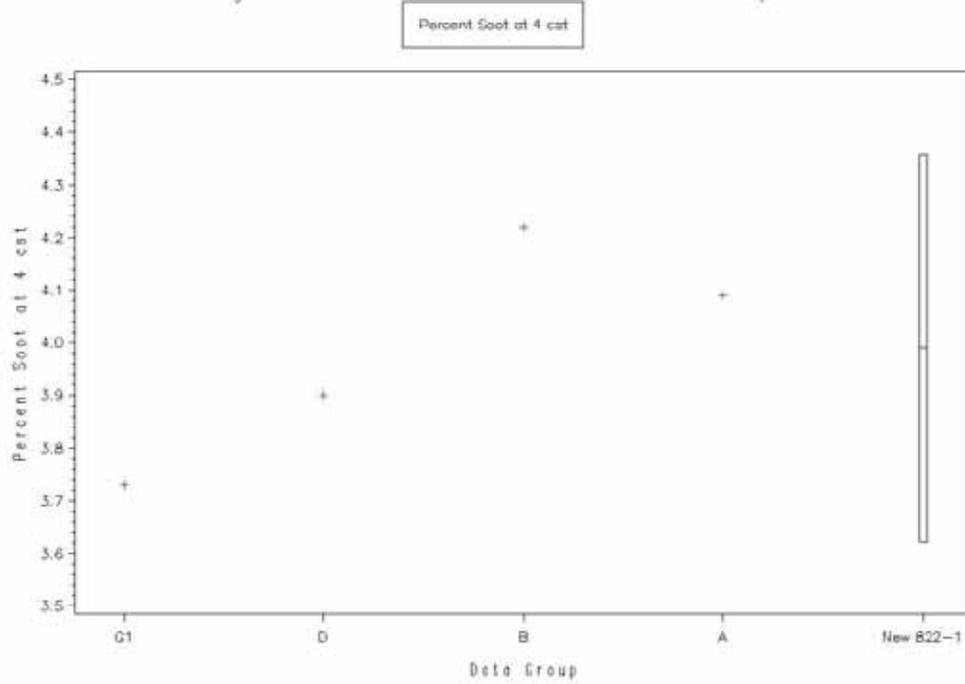


Figure 2

Mack T11 (Reference Oil 822-1)  
Test Target Data Set and Shewart Severity Limits

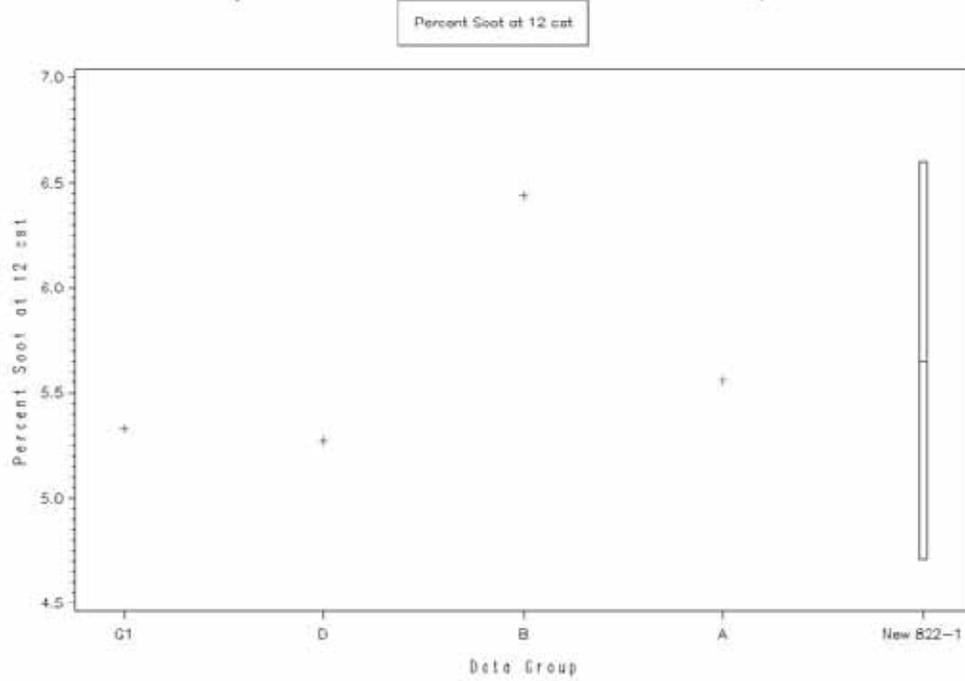


Figure 3

Mack T11 (Reference Oil 822-1)  
Test Target Data Set and Shewart Severity Limits

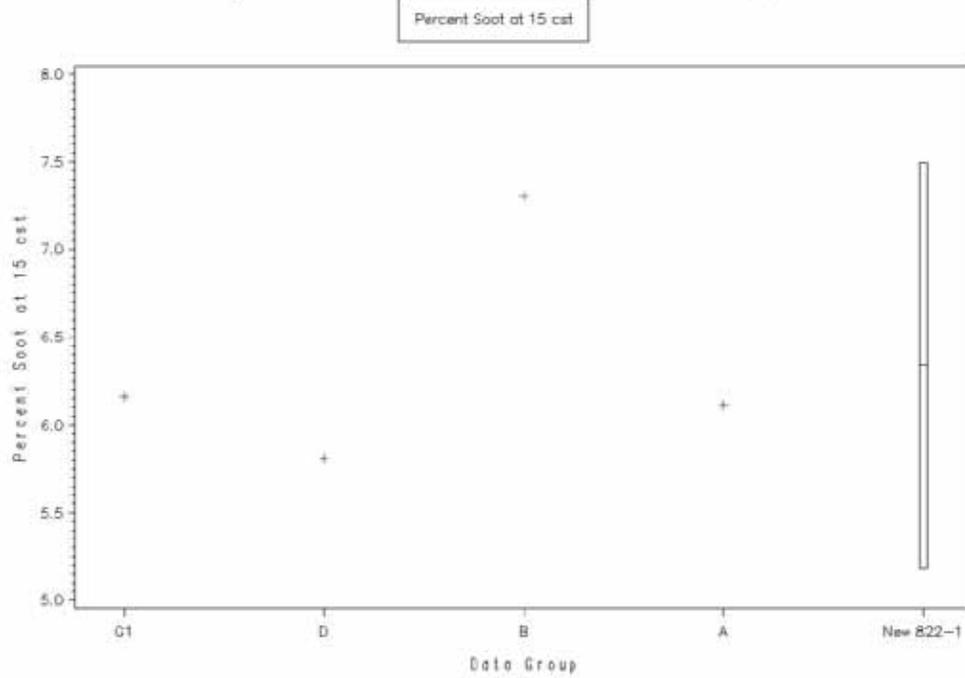


Figure 4

Mack T11 (Reference Oil 822-1)  
Test Target Data Set and Shewart Severity Limits

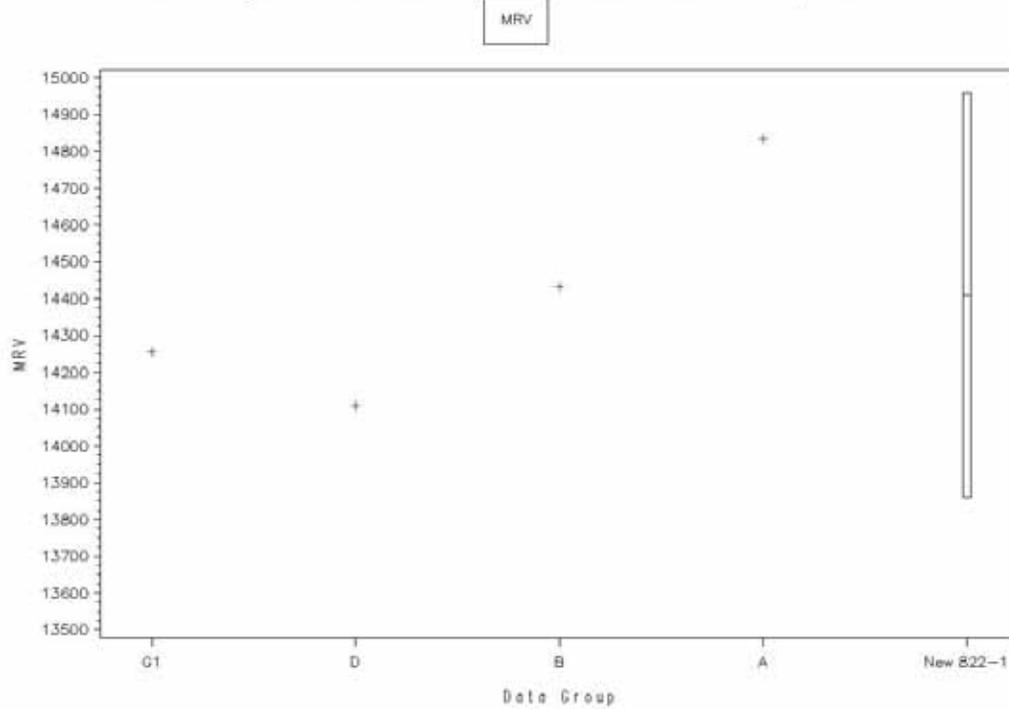


Table 1  
Reference Data Used to Generate Targets\*

Lab	SOOT4	SOOT	SOOT5	MRV
A	4.09	5.56	6.11	14835
B	4.22	6.44	7.30	14431
D	3.9	5.27	5.81	14109
G1	3.73	5.33	6.16	14256

\*All data corrected using current correction factors and severity adjusted using current lab severity adjustments.