



MEMORANDUM: 04-004

DATE: January 23, 2004

TO: Sequence III Surveillance Panel

FROM: Michael T. Kasimirsky *Michael T. Kasimirsky*

SUBJECT: Sequence IIIG/IIIGA Reference Oil 434 Test Target Update

On January 20, 2004, the Sequence III Surveillance Panel approved a motion to revise the test targets on 434 based upon all the data available to date in the LTMS. These revised targets, based upon the 20 data points available at this time, are shown in the following table:

Parameter	Mean	Standard Deviation
PVIS	4.7040	0.3877
WPD	4.73	1.01
ACLW	3.4872	0.2061
MRV	10.7378	0.40442

Any applicable severity adjustments were applied to the data prior to target generation. The data used to generate these targets is shown in Tables 1 & 2. Table 1 shows unadjusted data. Table 2 shows severity adjusted data, with the adjusted parameters shown in red. The above test targets; as well as the severity-adjusted data used to generate them; the raw test targets, the initial test targets, and the preliminary targets from the matrix (which were never used in the IIIG LTMS) for reference oil 434 are shown in the following figures. Figure 1 shows the PVIS data in transformed units. Figure 2 shows the PVIS data in original units. Figure 3 shows the WPD data in original units. Figures 4 and 5 show the ACLW data in transformed and original units, respectively. Figures 6 and 7 show the IIIGA MRV data in transformed and original units, respectively.

These targets are effective for all tests completed on or after February 1, 2004.

MTK/mtk

Attachments

c: John L. Zalar, TMC

<ftp://www.astmtmc.cmu.edu/docs/gas/sequenceiii/memos/mem04-004.pdf>

Distribution: Electronic Mail

Figure 1

Sequence III G Reference Oil 434
Test Target Data Set and Shewhart Bands

Percent Viscosity Increase, in transformed units

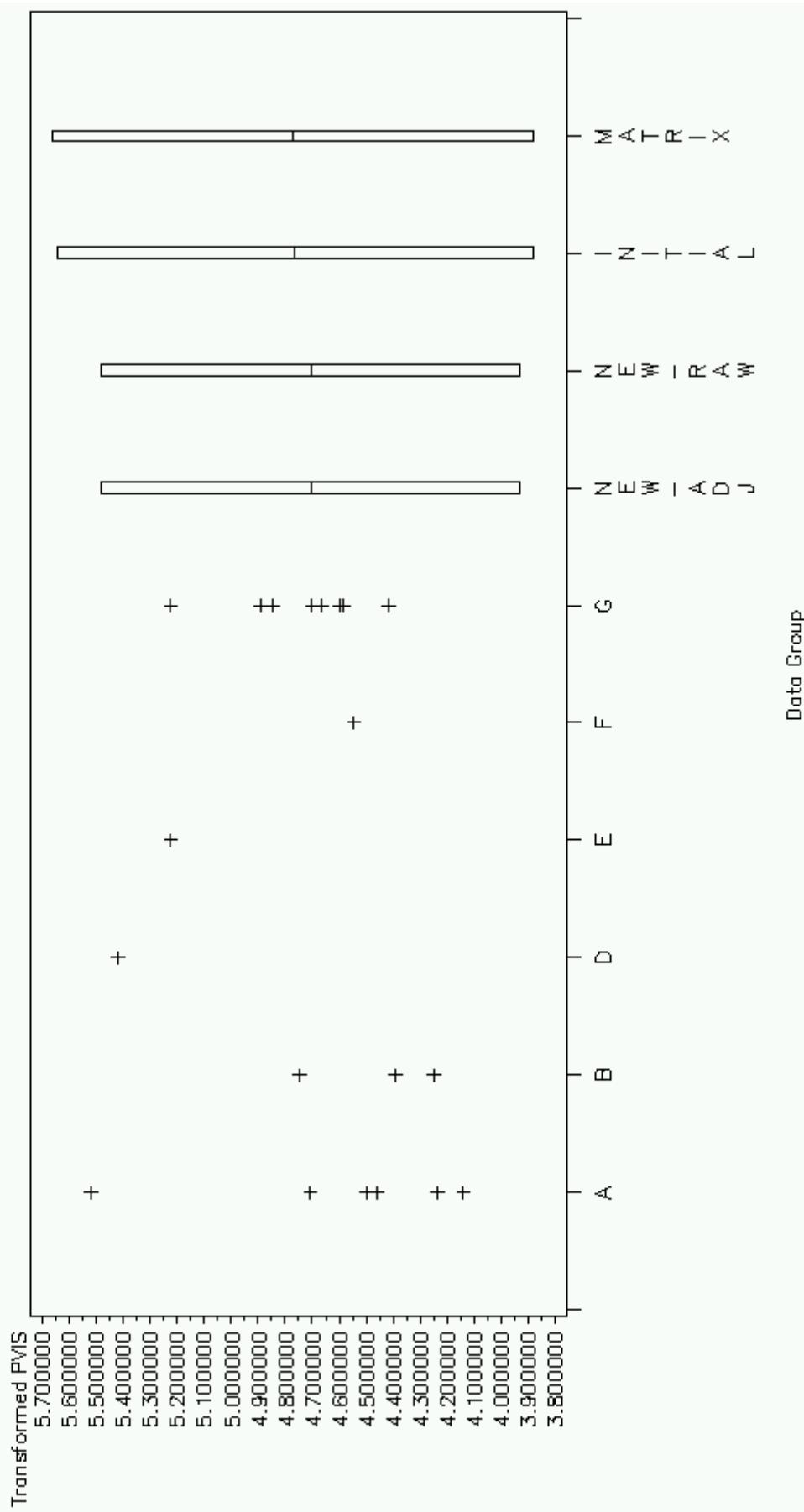


Figure 2

Sequence III G Reference Oil 434
Test Target Data Set and Shewhart Bands

Percent Viscosity Increase, in original units

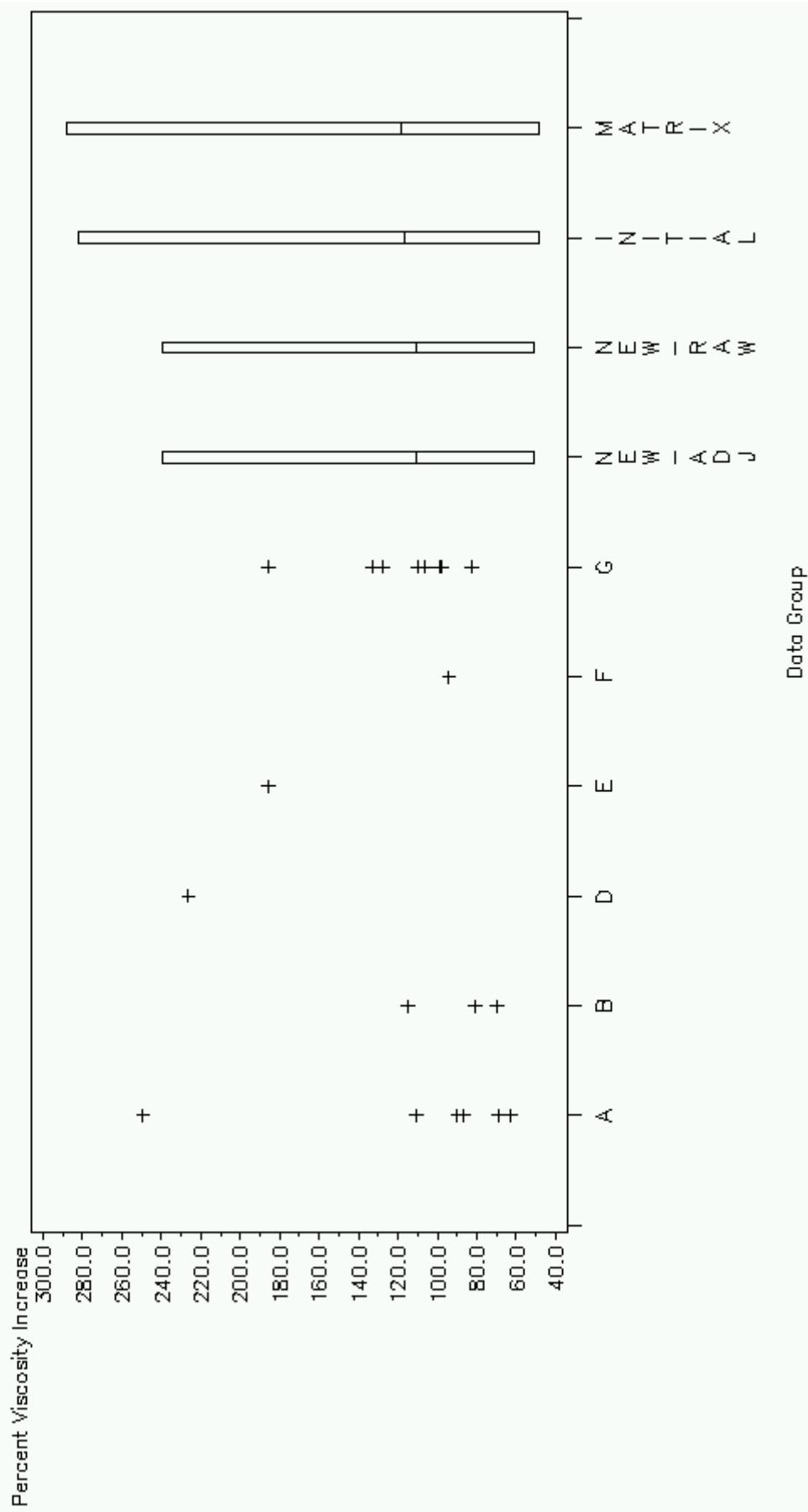


Figure 3

Sequence III G Reference Oil 434
Test Target Data Set and Shewhart Bands

Weighted Piston Deposits, in reported units

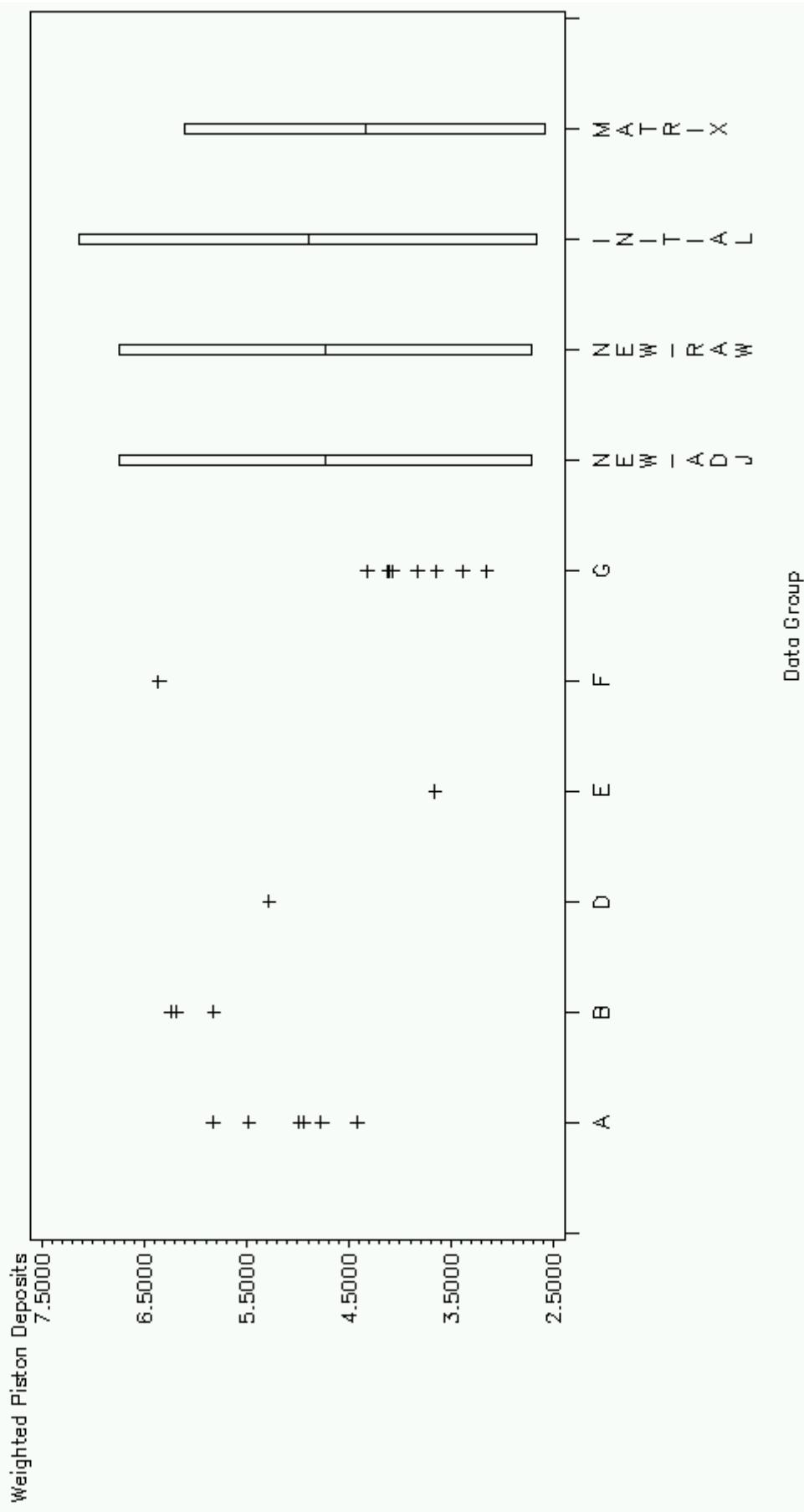


Figure 4

Sequence III G Reference Oil 434
Test Target Data Set and Shewhart Bands

Average Camshaft & Lifter Wear, in transformed units

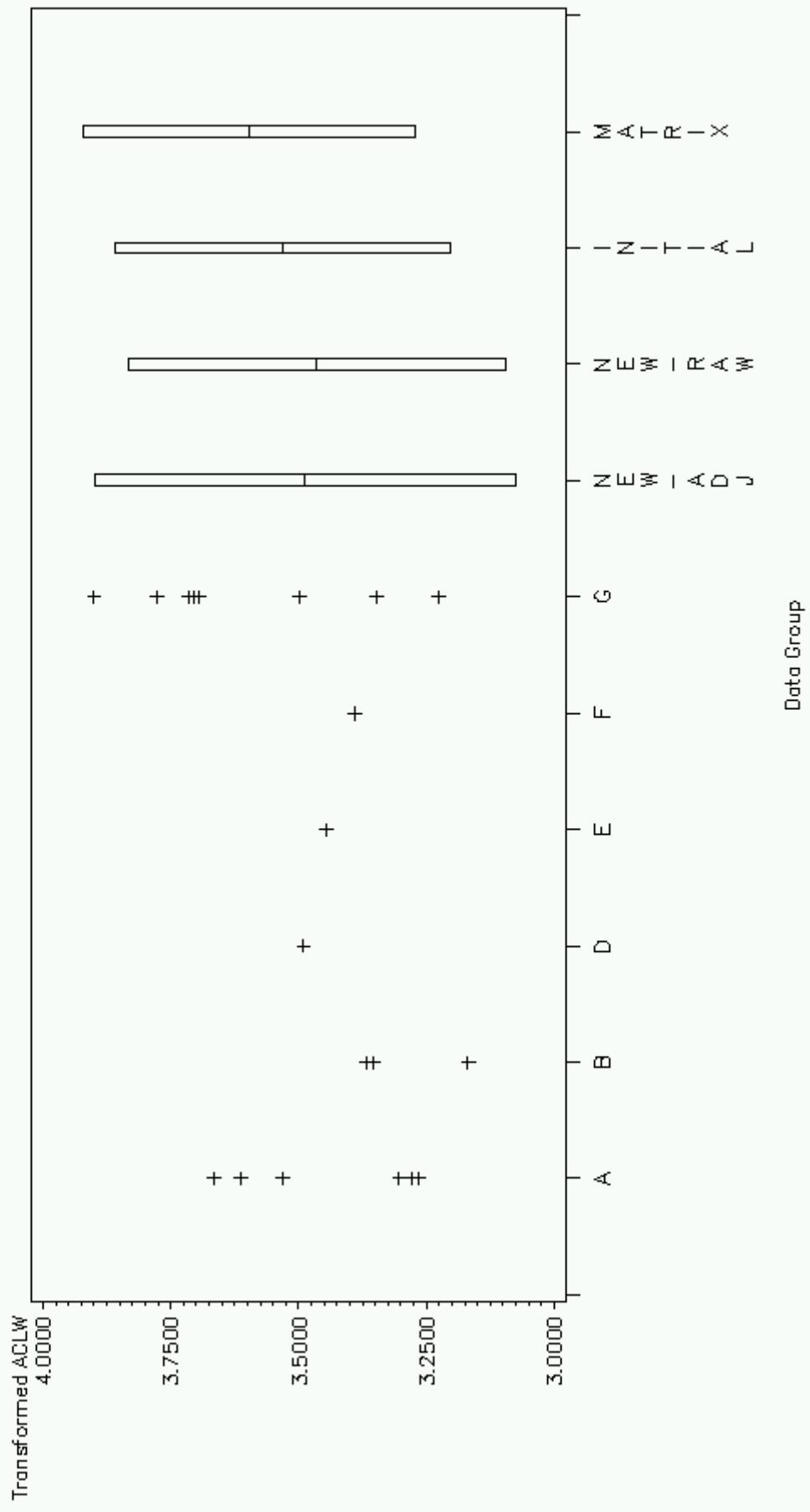


Figure 5

Sequence III/G Reference Oil 434
Test Target Data Set and Shewhart Bands

Average Camshaft & Lifter Wear, in original units

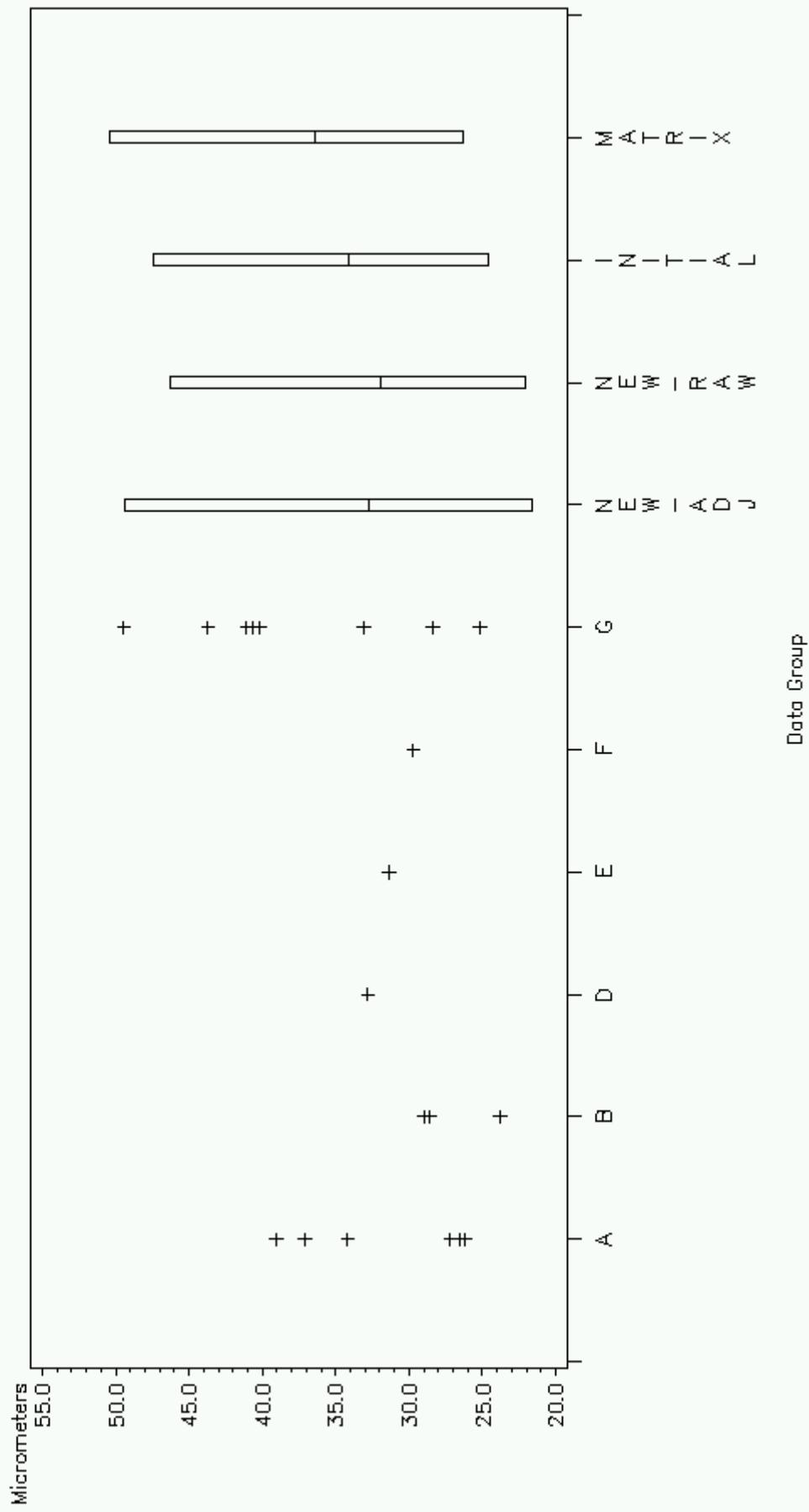


Figure 6

Sequence III G Reference Oil 434
Test Target Data Set and Shewhart Bands

Mini Rotatory Viscosimeter Viscosity, in transformed units

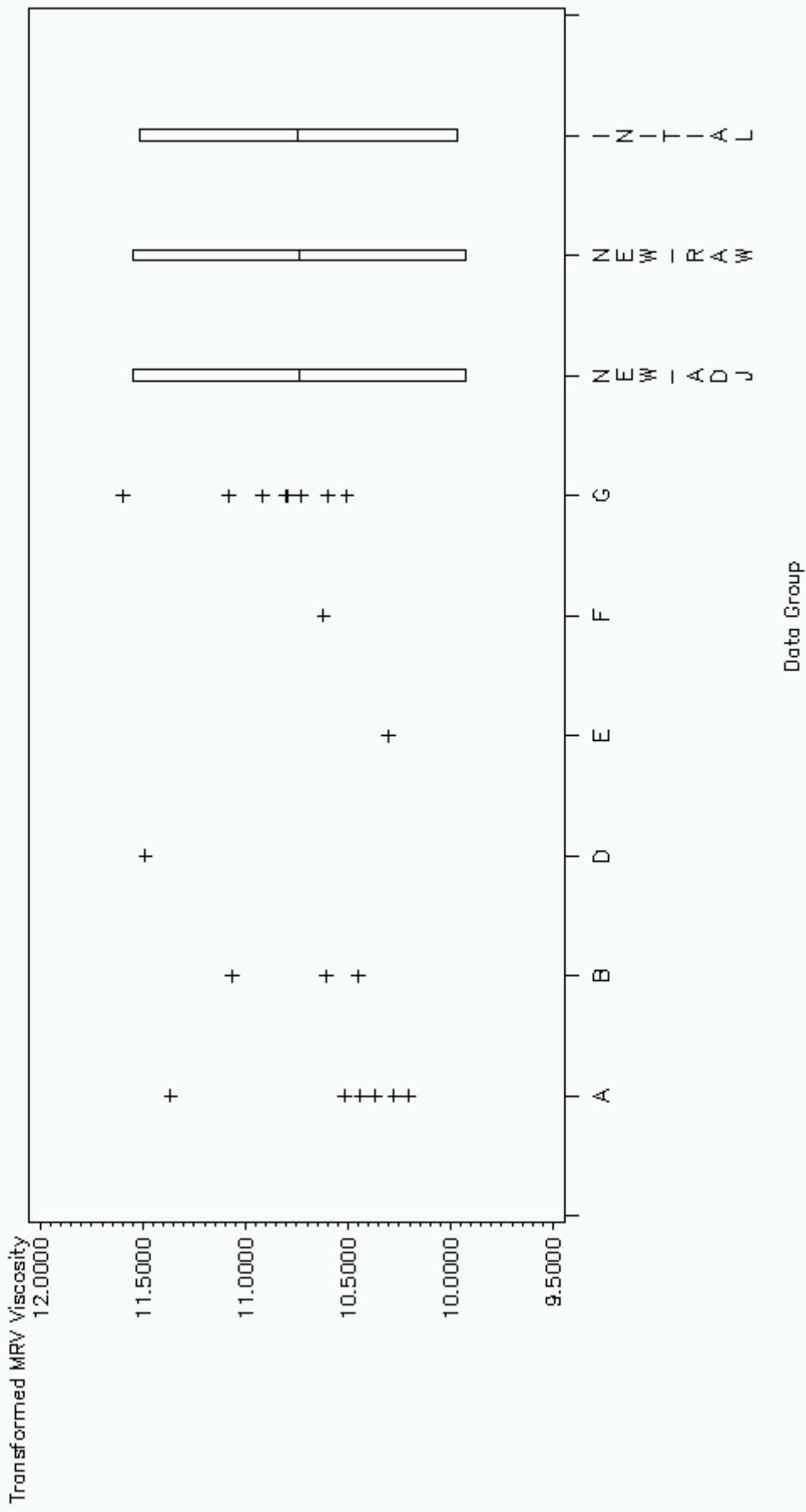


Figure 7

Sequence III-G Reference Oil 434
Test Target Data Set and Shewhart Bands

Mini Rotatory Viscometer Viscosity, in original units

