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# Test Monitoring Center

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MEMORANDUM: 15-027

DATE: July 20, 2015

TO: EOWT Surveillance Panel

FROM: Michael T. Kasimirsky

SUBJECT: Reference Oil 79 Final Target Update

At the January 12, 2015 EOWT Surveillance Panel Teleconference, the panel approved a motion to introduce reference oil 79 into the calibration system, based upon the data presented at that meeting. As part of this motion, the Surveillance Panel also agreed to update and freeze the test targets based upon all data completed by July 15, 2015.

The updated test targets are shown in the following table:

Reference Oil 79						
WT%	N	Mean	Std Dev	K	Target Range	
0.6	104	15.64	4.98	1.96	5.89	25.40
1.0	104	13.74	4.84	1.96	4.25	23.24
2.0	105	10.16	5.81	1.96	-1.23	21.55
3.0	103	7.83	5.45	1.96	-2.85	18.52

Note that the upper and lower limits shown in the “Target Range” block are the official test targets for the EOWT test; the target mean and standard deviation are shown for information purposes only. These new targets are effective on July 31, 2015.

Plots of the initial, updated, and final test targets for reference oil 79, along with the final test targets used for reference oil 78-2, and the individual data points used to calculate the targets are shown on the following pages. A spreadsheet of the data used to calculate these targets can be found at the following link:

<ftp://ftp.astmtmc.cmu.edu/refdata/bench/eowt/data/EOWT%20Oil%2079%20final%20target%20data.xls>

There appears to be a significant laboratory bias in the data used to generate these test targets.

MTK/mtk

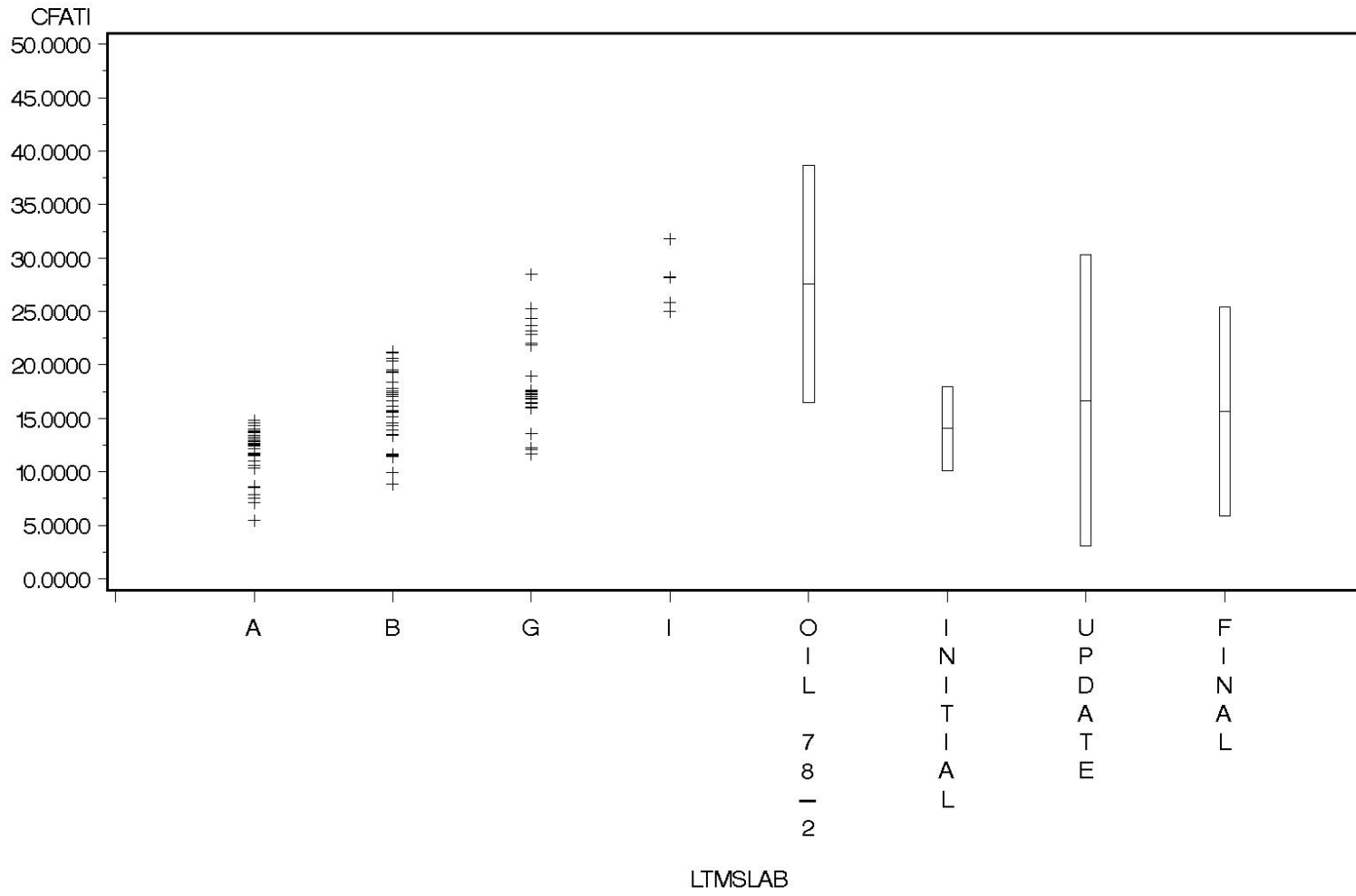
c: <ftp://ftp.astmtmc.cmu.edu/docs/bench/eowt/memo/mem15-027.mtk.pdf>

Distribution: email

# EOWT Reference Oil 79

## Test Target Data Set and Acceptance Bands

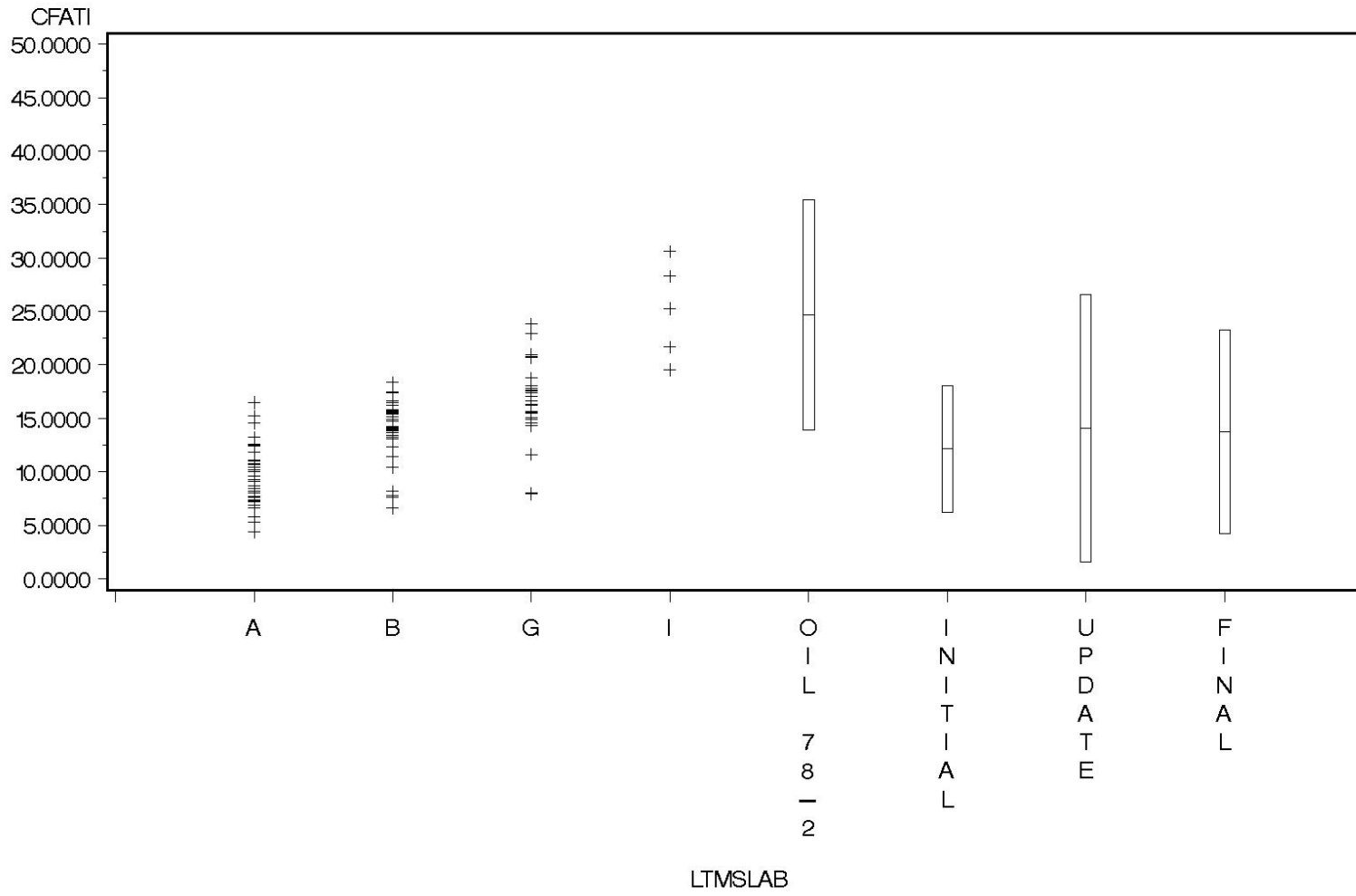
Change in Flowrate Average, 0.6% Water Concentration



# EOWT Reference Oil 79

## Test Target Data Set and Acceptance Bands

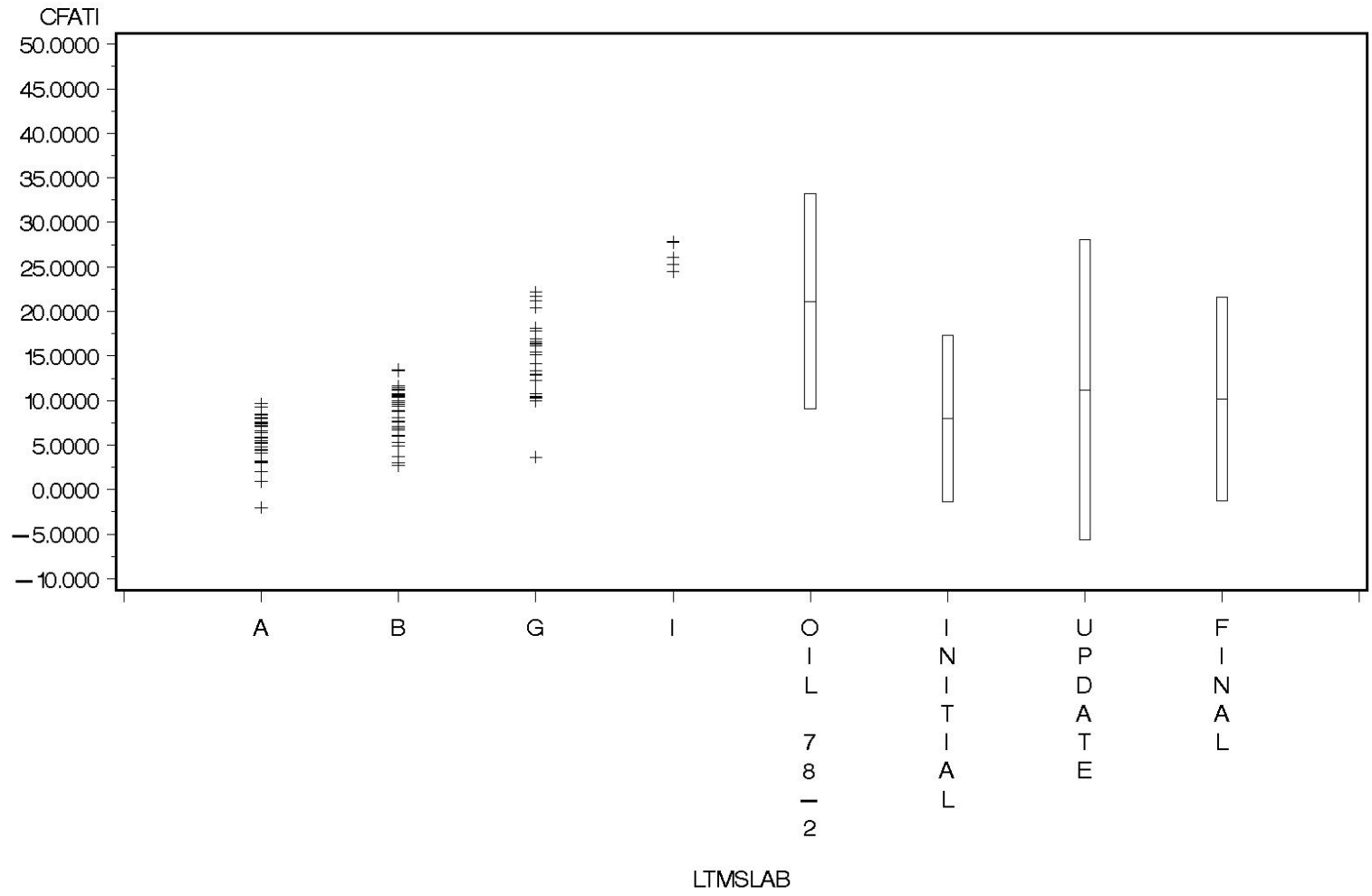
Change in Flowrate Average, 1.0% Water Concentration



# EOWT Reference Oil 79

## Test Target Data Set and Acceptance Bands

Change in Flowrate Average, 2.0% Water Concentration



# EOWT Reference Oil 79

## Test Target Data Set and Acceptance Bands

Change in Flowrate Average, 3.0% Water Concentration

