



A Program of ASTM International

Test Monitoring Center

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MEMORANDUM: 15-002

DATE: January 13, 2015

TO: EOWT Surveillance Panel

FROM: Michael T. Kasimirsky

SUBJECT: Reference Oil 79 Introduction

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.

The initial test targets, which take effect immediately, are shown in the following table:

| Reference Oil 79 | | | | | | |
|------------------|---|-------|---------|------|--------------|-------|
| WT% | N | Mean | Std Dev | K | Target Range | |
| 0.6 | 9 | 14.05 | 2.00 | 1.96 | 10.13 | 17.96 |
| 1.0 | 9 | 12.15 | 3.02 | 1.96 | 6.23 | 18.08 |
| 2.0 | 9 | 7.97 | 4.78 | 1.96 | -1.40 | 17.35 |
| 3.0 | 9 | 6.14 | 2.44 | 1.96 | 1.35 | 10.93 |

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.

As part of this motion, the Surveillance Panel also agreed to update the test targets once 20 data points are available. In addition, the motion stipulated that the targets will be updated and frozen, based upon all data received by July 15, 2015, and these final targets will be effective on July 31, 2015.

Plots of the initial test targets, 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.

MTK/mtk

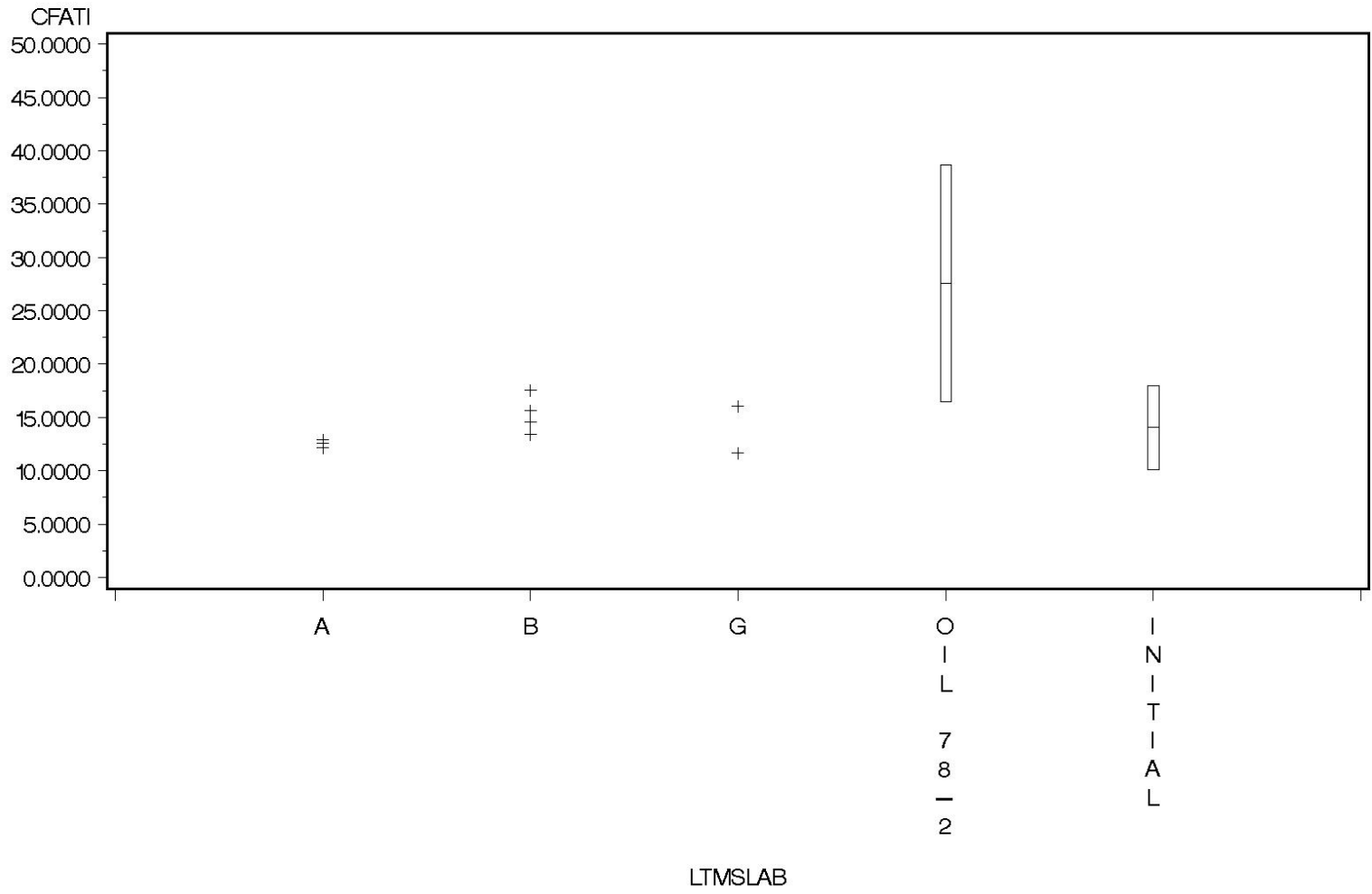
c: <ftp://ftp.astmtmc.cmu.edu/docs/bench/eowt/memo/mem15-002.mtk.pdf>

Distribution: email

EOWT Reference Oil 79

Test Target Data Set and Acceptance Bands

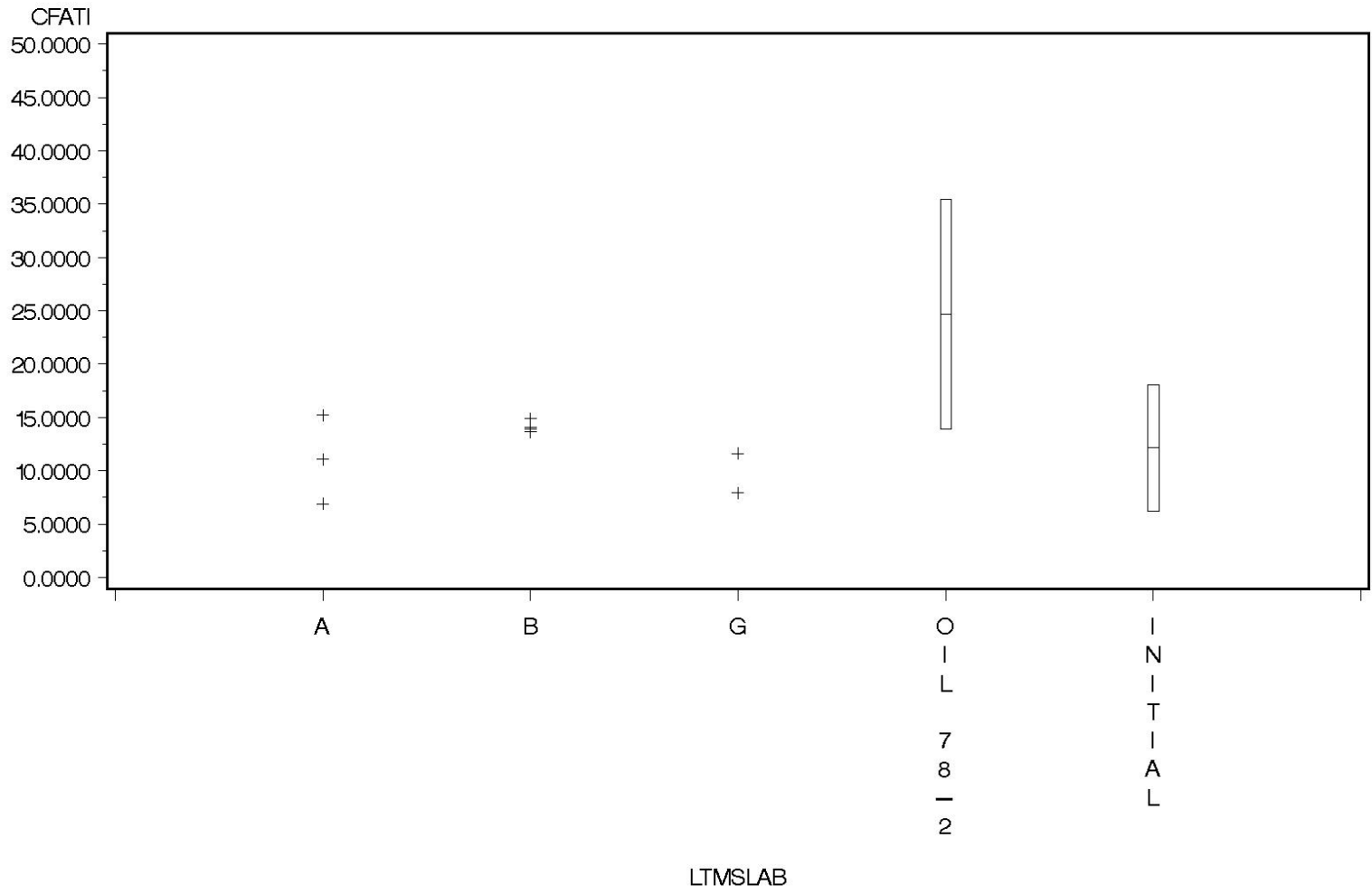
Change in Flowrate Average, 0.6% Water Concentration



EOWT Reference Oil 79

Test Target Data Set and Acceptance Bands

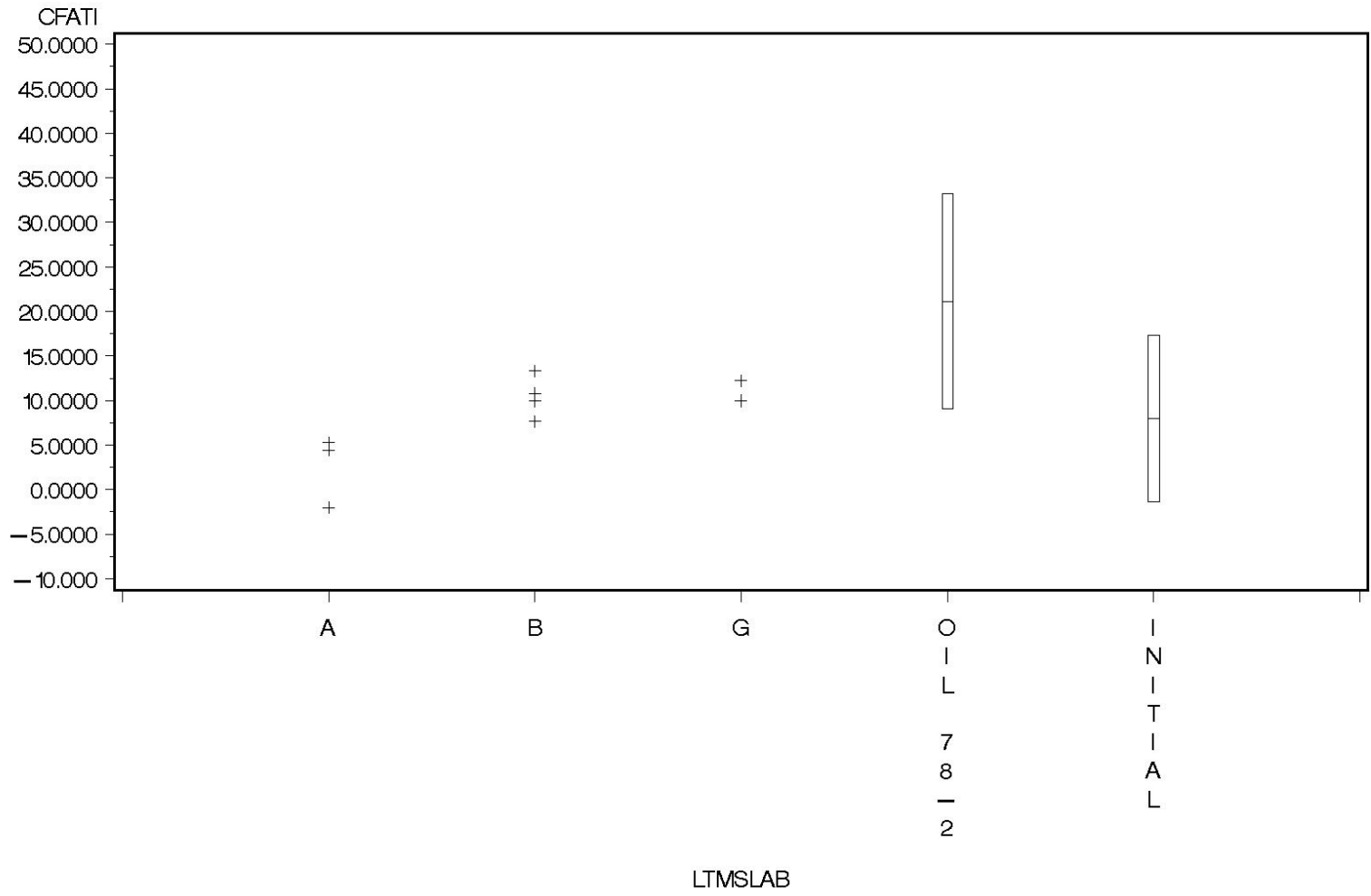
Change in Flowrate Average, 1.0% Water Concentration



EOWT Reference Oil 79

Test Target Data Set and Acceptance Bands

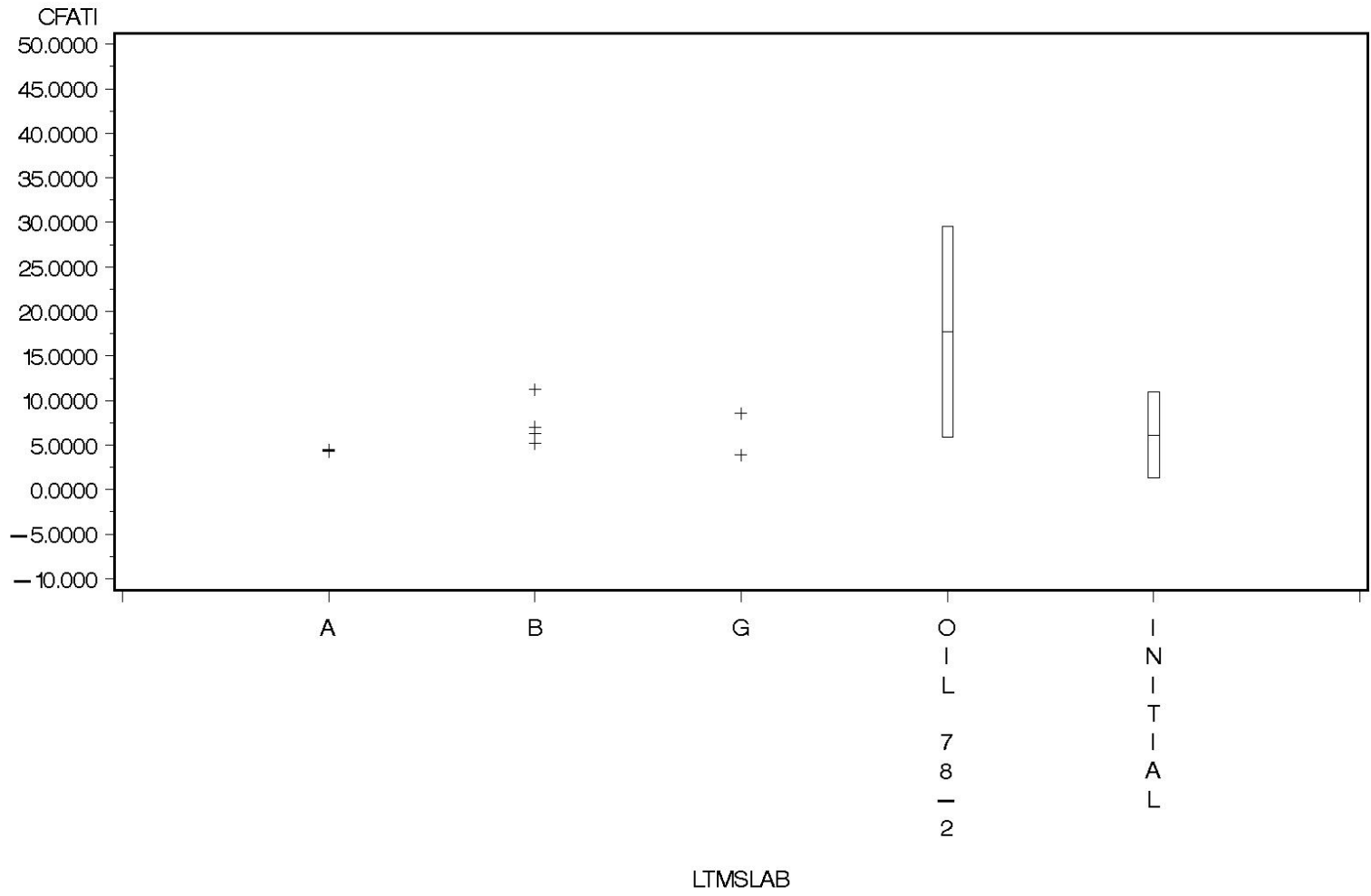
Change in Flowrate Average, 2.0% Water Concentration



EOWT Reference Oil 79

Test Target Data Set and Acceptance Bands

Change in Flowrate Average, 3.0% Water Concentration



| TESTKEY | LAB | IND | VAL | EOTDATE | EOTTIME | SPECIAL | CF1_R001 | CF2_R001 | CFA |
|-------------|-----|-----|-----|----------|---------|---------|----------|----------|-------|
| 105514-EOWT | B | 79 | AG | 20141223 | 17:09 | 0.6 | 16.67 | 14.58 | 15.62 |
| 105510-EOWT | B | 79 | AG | 20141223 | 17:10 | 0.6 | 13.95 | 15.22 | 14.59 |
| 105506-EOWT | B | 79 | AG | 20141224 | 16:05 | 0.6 | 16.67 | 10.2 | 13.43 |
| 105518-EOWT | B | 79 | AG | 20141224 | 16:05 | 0.6 | 17.02 | 18 | 17.51 |
| 105587-EOWT | A | 79 | AG | 20141231 | 13:12 | 0.6 | 16.67 | 9.09 | 12.88 |
| 105591-EOWT | A | 79 | AG | 20141231 | 13:21 | 0.6 | 10.2 | 14.89 | 12.55 |
| 105595-EOWT | A | 79 | AG | 20141231 | 13:29 | 0.6 | 10.64 | 13.73 | 12.19 |
| 105352-EOWT | G | 79 | AG | 20150108 | 16:00 | 0.6 | 10.41 | 12.88 | 11.65 |
| 105356-EOWT | G | 79 | AG | 20150109 | 16:00 | 0.6 | 16 | 16.03 | 16.02 |
| 105515-EOWT | B | 79 | AG | 20141223 | 17:09 | 1.0 | 13.64 | 14.58 | 14.11 |
| 105511-EOWT | B | 79 | AG | 20141223 | 17:10 | 1.0 | 14.89 | 12.96 | 13.93 |
| 105507-EOWT | B | 79 | AG | 20141224 | 16:05 | 1.0 | 14.29 | 13.04 | 13.66 |
| 105519-EOWT | B | 79 | AG | 20141224 | 16:05 | 1.0 | 15.22 | 14.58 | 14.9 |
| 105588-EOWT | A | 79 | AG | 20141231 | 13:25 | 1.0 | 15.56 | 14.89 | 15.23 |
| 105592-EOWT | A | 79 | AG | 20141231 | 13:31 | 1.0 | 11.76 | 10.42 | 11.09 |
| 105596-EOWT | A | 79 | AG | 20141231 | 13:40 | 1.0 | 9.8 | 4 | 6.9 |
| 105353-EOWT | G | 79 | AG | 20150108 | 16:00 | 1.0 | 3.18 | 12.69 | 7.94 |
| 105357-EOWT | G | 79 | AG | 20150109 | 16:00 | 1.0 | 13.51 | 9.73 | 11.62 |
| 105516-EOWT | B | 79 | AG | 20141223 | 17:09 | 2.0 | 9.09 | 10.87 | 9.98 |
| 105512-EOWT | B | 79 | AG | 20141223 | 17:10 | 2.0 | 10.87 | 4.44 | 7.66 |
| 105508-EOWT | B | 79 | AG | 20141224 | 16:05 | 2.0 | 13.95 | 12.77 | 13.36 |
| 105520-EOWT | B | 79 | AG | 20141224 | 16:05 | 2.0 | 10.2 | 11.36 | 10.78 |
| 105589-EOWT | A | 79 | AG | 20141231 | 13:57 | 2.0 | -1.96 | -2.08 | -2.02 |
| 105593-EOWT | A | 79 | AG | 20141231 | 14:07 | 2.0 | 4.35 | 4.55 | 4.45 |
| 105597-EOWT | A | 79 | AG | 20141231 | 14:16 | 2.0 | 8.51 | 2.08 | 5.3 |
| 105354-EOWT | G | 79 | AG | 20150108 | 16:00 | 2.0 | 11.28 | 8.72 | 10 |
| 105358-EOWT | G | 79 | AG | 20150109 | 16:00 | 2.0 | 14.37 | 10.13 | 12.25 |
| 105517-EOWT | B | 79 | AG | 20141223 | 17:09 | 3.0 | 6.38 | 6.12 | 6.25 |
| 105513-EOWT | B | 79 | AG | 20141223 | 17:10 | 3.0 | 6.12 | 4.17 | 5.15 |
| 105509-EOWT | B | 79 | AG | 20141224 | 16:05 | 3.0 | 11.36 | 11.11 | 11.23 |
| 105521-EOWT | B | 79 | AG | 20141224 | 16:05 | 3.0 | 7.32 | 6.67 | 7 |
| 105590-EOWT | A | 79 | AG | 20141231 | 14:06 | 3.0 | 4.44 | 4.44 | 4.44 |
| 105594-EOWT | A | 79 | AG | 20141231 | 14:14 | 3.0 | 8.51 | 0 | 4.26 |
| 105598-EOWT | A | 79 | AG | 20141231 | 14:23 | 3.0 | 4.26 | 4.65 | 4.46 |
| 105355-EOWT | G | 79 | AG | 20150108 | 16:00 | 3.0 | 0.8 | 6.99 | 3.9 |
| 105359-EOWT | G | 79 | AG | 20150109 | 16:00 | 3.0 | 7.89 | 9.19 | 8.54 |