



## Test Monitoring Center

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Sequence IVB Information Letter 18-1  
Sequence Number 1  
December 6, 2018

***ASTM consensus has not been obtained on this information letter. An appropriate ASTM ballot will be issued in order to achieve such consensus.***

TO: Sequence IVB Surveillance Panel

SUBJECT: Reporting of Severity Adjusted End of Test Used Oil Iron Results

During the October 25, 2018 Conference Call, the Sequence IV Surveillance Panel agreed to limit the final reported used oil iron (FEWMEOT) result after a stand severity adjustment is applied. A new section 11.4.6 has been added to the test procedure to address the reporting of iron in the used oil after a severity adjustments is applied.

The test procedure has been revised to incorporate these changes. The text of the revisions is shown in the attachment. These changes are effective November 1, 2018

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Attachment

C: [http://www.astmtmc.cmu.edu/ftp/docs/gas/sequenceiv/procedure\\_and\\_ils/ivb/IL18-001.pdf](http://www.astmtmc.cmu.edu/ftp/docs/gas/sequenceiv/procedure_and_ils/ivb/IL18-001.pdf)

Distribution: Email

## Revises IVB Test Procedure 20181030

### 11.4.6 *Final Reported End-of-Test Iron Result*

11.4.6.1 Report the unadjusted 200 h mass fraction Iron (Fe) value on form 4 of the test report.

11.4.6.2 For non-reference oil results, adjust for stand severity as follows:

(1) Transform the end-of-test mass fraction Fe by taking the natural log (ln) of the end-of-test Fe result report this value on form 4

(2) Apply the severity adjustment obtained from the TMC to the end-of-test transformed result.

(3) Convert the severity adjusted value to original units by taking the antilog.

11.4.6.3 Do not severity adjust the final test result beyond  $\pm 100$  mg/kg from the original result.

(1) If the adjusted end-of-test result is greater than the original end-of-test result by more than 100 mg/kg, add 100 mg/kg to the original result and report this value as final adjusted result.

(2) If the adjusted end-of-test result is less than the original end-of-test result by more than 100 mg/kg, subtract 100 mg/kg from the original result and report this value as final adjusted result.