



Test Monitoring Center

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Engine Oil Water Tolerance Test Information Letter No. 19-2
Sequence No. 3
December 16, 2019

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

TO: Engine Oil Water Tolerance Test Mailing List

SUBJECT: Running Individual Water Treat Rates

On December 5, 2019, the Surveillance Panel approved revisions to the wording in the test method to redefine a test as running a single water treatment rate. This is a change from requiring all four possible water treatment rates in the method to be run simultaneously. This will bring the test method in line with past and present test operations where each water treatment rate is evaluated independently. Any failing or invalid test for an individual water treatment rate can be rerun without repeating analysis on all four water treatment rates.

These changes, highlighted in red, are not intended to change the operation of the test, but rather to clarify the wording and methods detailed in it. These changes are effective with this information letter.

The updated sections of ASTM Test Method D 6794 are attached.

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Chairperson
EOWT Surveillance Panel

Frank M. Farber
Director
ASTM Test Monitoring Center

Attachment

c: http://www.astmtmc.cmu.edu/ftp/docs/bench/eowt/procedure_and_ils/il19-2.pdf

Distribution: Email

4.1 Add deionized water to the test oil for a final solution of 0.6%, 1.0%, 2.0%, or 3.0% water in oil. The sample is heated to 70 °C for 6 h, followed by storage at room temperature. The sample is filtered and the flow rate is calculated determining the engine oil filterability characteristics.

5.4 This test method subjects the test oil and the new oil to the same treatments such that the loss of filterability can be determined. The four water treatment levels may be tested individually, all four simultaneously, or any combination of multiple water treatment levels.

9.1 Determine the water treatment rate for the test and record it. Add the appropriate quantity of test oil and deionized water (see Table 1) to the blender for the desired water treatment rate, using the 1000 µL syringe.

Treatment Rate	Test Oil	Deionized Water
0.6%	49.7 g ± 0.1 g	0.3 g ± 0.05 g
1.0%	49.5 g ± 0.1 g	0.5 g ± 0.05 g
2.0%	49.0 g ± 0.1 g	1.0 g ± 0.05 g
3.0%	48.5 g ± 0.1 g	1.5 g ± 0.05 g

9.2 Mix test oil and water in the blender for 30 s ± 1 s at 18 000 r/min ± 1800 r/min.

13.1.5 Water Treatment Rate tested.

{Renumber existing sections 13.1.5 & 13.1.6 as 13.1.6 & 13.1.7, respectively}