



Test Monitoring Center

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Sequence IX Information Letter 19-1
Sequence Number 1
December 2, 2019

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 IX Surveillance Panel

SUBJECT: 1. Use of Dealer Procured Pistons
2. Clarifications/Corrections to Iteration Outlier Criteria

During the November 15, 2019 conference call, the Sequence IX Surveillance Panel agreed to the following changes to Test Method D8291-19:

1. To allow the use of alternate pistons. Section 7.2.1 and new footnote 9 have been added to identify which pistons are acceptable for testing purposes.
2. Several clarifications to determining of pre-ignition outliers. Sections 12.2.2.1 and 12.2.2.3 have been revised to clarify the invalid criteria screening.

These revised text and or section(s) have been highlighted in red and are effective November 15, 2019.

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Ford Motor Company

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Director
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Attachment

c: http://www.astmtmc.cmu.edu/ftp/docs/gas/sequenceix/procedure_and_ils/il19-1_ix.pdf

Distribution: Email

Revises D8291-19

7.2.1 Use short blocks with installed pistons stamped with BB on the piston crown. Where BB stamped pistons are not installed, use pistons, part number AG9Z-6108-D⁹, stamped AA1 and AB1.

⁹ Available from any Ford Dealer.

Renumber existing footnotes 9 to 29 as 10 to 30, respectively.

12.2.2.1 Remove all cycles with a $MFB2 > 30^\circ$.

12.2.2.3 After all invalid $MFB2$ and PP cycles have been removed (see 12.2.2.1 and 12.2.2.2), remove all cycles with a pressure minimum voltage ($PMINV$) differing from the mean of remaining $PMINV$ by more than 0.5 V. For example, if the mean $PMINV$ of the remaining engine cycles on cylinder 1 is -8.02 V, remove all cycles with $PMINV < -8.52$ V or a $PMINV > -7.52$ V.