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T-11 INFORMATION LETTER 06-4
Sequence No. 5
December 13, 2006

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

TO: Mack Mailing List

SUBJECT: New Engine Build Requirements
Valve Lash Check
MRV Results that are Too-Viscous-To-Measure (TVTM)

On the November 27, 2006 conference call, the Mack Test Surveillance Panel approved the following changes to the T-11 test procedure, ASTM Test Method D7156:

New Engine Build Requirements

The frequency of performing new engine builds is at the discretion of the laboratory as correctly stated in Section 11.5.2. Section 4.3 incorrectly contradicts that section, has been corrected accordingly, and is attached.

Valve Lash Check

The requirement to perform a valve lash check at the conclusion of the new engine build break-in has been removed. Section 9.1.2 has been modified accordingly and is attached.

MRV Results that are Too-Viscous-To-Measure (TVTM)

The maximum reported value for MRV viscosity has been set at 400,000 cP and this is the value to be reported if a result is too-viscous-to-measure (tvtm) or solid. Section 10.1.7 has been modified accordingly and is attached.

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John L. Zalar
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Attachment

c: ftp://ftp.astmtmc.cmu.edu/docs/diesel/mack/procedure_and_ils/t11/il06-4.pdf

Distribution: Email

(Revises D 7156-05 as amended by Information Letters 05-1, 06-1, 06-2, and 06-3)

4.3 Engine rebuilds may be necessary as indicated by degradation of test parameters and are left to the discretion of the test laboratory. At rebuild, the power section of the engine is disassembled, solvent-cleaned, and rebuilt, using all new pistons, rings, cylinder liners, valves, and valve guides, in strict accordance with furnished specifications.

9.1.2 *Pretest Break-In Sequence for New Engine Builds*—Use a break-in sequence for a new engine build. Start the engine as described in Annex A5. Run the break-in for 1 h at the test operating conditions shown in Table 2. At the end of 1 h, shut down the engine according to Annex A5. Drain the oil from the oil pan and auxiliary oil reservoir. Replace all oil filters. Refill the engine with test oil, see 9.1.1, and conduct the test in accordance with 9.4.

10.1.7 For the 180-h and EOT oil samples, determine MRV viscosity at –20°C according to Test Method D 6896. As part of the MRV measurement procedure, be sure to prepare the sample in accordance with A4.3, Annex A4 of Test Method D 5967. The maximum reported result is 400,000 cP and use this value if the results are too viscous to measure.