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Test Monitoring Center

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DD13 Information Letter 23-1
Sequence No. 5
July 6, 2023

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

TO: Daimler Surveillance Panel Mailing List
SUBJECT: DD13 Break-in Time Correction

The Daimler Surveillance Panel voted via email ballot to correct the break-in time listed in Table A5.1 which was incorrectly listed as 20 hours instead of 15 minutes. Table A5.1 of D8074 has been updated and is attached.

This revision is effective with the date of this information letter.

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Attachment

c: https://www.astmtmc.org/ftp/docs/diesel/daimler/procedure_and_ils/DD13/il23-01.pdf

Distribution: Email

(Revises D8074-22)

Revise Table A5.1 as follows:

TABLE A5.1 Pretest Break-in Sequence

| | Step | Time, h:min | Setpoint Ramp Time, s | Engine Speed, r/min | Torque, N·m | Fuel Flow Rate, kg/h | Coolant Flow Rate, L/min | Air Temp in Engine Intake, °C | Coolant Temp at Jacket Outlet, °C | Oil Temp in Gallery, °C | Fuel Temp at Engine Inlet, °C | Air Temp in Intake Manifold, °C | Coolant Pressure at Jacket Inlet, kPa gauge | Exhaust Pressure in Tailpipe, kPa absolute | Air Pressure in Intake Manifold, kPa absolute | Air Pressure at Engine Intake, kPa absolute |
|----------|----------------|------------------------|-----------------------|---------------------|-------------|----------------------|--------------------------|-------------------------------|-----------------------------------|-------------------------|-------------------------------|---------------------------------|---|--|---|---|
| Warmup | 1 ^A | | | 600 | idle | | 340 to 360 | 35 | 105 | 118 | 38 | 75 | 250 | 97.5 | no air to wastegate | 97 |
| | 2 | 00:30 | 180 ^B | 1800 | 800 | | 340 to 360 | 35 | 105 | 118 | 38 | 75 | 250 | 105.5 | 202.5 | 96.4 |
| | 3 | 00:02 | 120 | 1800 | | 32 | 340 to 360 | 35 | 105 | 118 | 38 | 75 | 250 | 105.5 | 202.5 | 96.4 |
| Break-in | 1 | 20:00 00:15 | | 1800 | | 32 | 340 to 360 | 35 | 105 | 118 | 38 | 75 | 250 | 105.5 | 202.5 | 96.4 |
| Cooldown | 1 ^A | 00:02 | 120 | 600 | idle | | 340 to 360 | 35 | 105 | 118 | 38 | 75 | 250 | 97.5 | no air to wastegate | 97 |

^A Consider setpoints as maximums for idle conditions.

^B Setpoint ramp is 180 s for all parameters except temperatures that will take longer, but shall not exceed 30 min.