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Test Monitoring Center

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T-8 Information Letter 12-1
Sequence No. 20
May 18, 2012

TO: Mack Mailing List

SUBJECT: T-8 Test Specified Fuel Designation Change and Partial Rebuild Allowance

As approved by email ballot the panel has updated the fuel designation information for the 0.04% sulfur fuel used in the T-8 test. Section 7.2 and Table 1 have been updated to reflect this change and are attached.

As approved at the May 2, 2012 surveillance panel meeting, section 9.1.2 has been updated to reflect a change to the referencing of a rebuilt T-8 test engine.

The attached changes to Test Method **D5967** are effective May 2, 2012.

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Attachment

c: ftp://ftp.astmtmc.cmu.edu/docs/diesel/mack/procedure_and_ils/T-8/il12-1.pdf

Distribution: Email

(Revises D 5967-11)

7.2 *Test Fuel*—The recommended fuel with the properties and tolerances are shown in Table 1.

TABLE 1 PC-9-HS Reference Diesel Fuel

Property	Test Method	Min [A]		Max [A]
Sulfur, mass %	D2622	0.04		0.05
Gravity, °API	D287 or D4052	34.5		36.5 (37)
Hydrocarbon composition, % vol				
Aromatics	D1319 (FIA)	(27) 28		33
Olefin	D1319 (FIA)		Report	
Cetane number	D613	40 (42)		48
Cetane index	D976 and D4737		Report	
Copper strip corrosion	D130			1
Flash point, °C	D93	54		
Pour point, °C	D97			–18
Cloud point, °C	D2500		Report	
Carbon residue on 10 % residuum, mass %	D524 (10 % bottoms)			0.35
Water and sediment, vol %	D2709			0.05
Viscosity, mm^2/s at 40 °C	D445	2.4		3.0
Ash, mass %	D482			0.005
Acid number	D664			0.05
Strong acid number	D664			0.00
Accelerated stability	D2274		Report	
Distillation, °C	D86			
IBP			Report	
10 % vol			Report	
50 % vol			Report	
90 % vol		282		338
EP			Report	

9.1.2 Engine test stand calibration is required when the injection pump is removed from the engine, when the front or rear gear train timing is changed or when cylinder heads are replaced. Cylinder heads and power cylinder components (pistons, rings and liners) can be rebuilt without re-calibrating. Any rebuild requires a new break-in sequence to be run on the engine prior to testing.