



Test Monitoring Center

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1R Information Letter No. 12-1
Sequence No. 6
May 24, 2012

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: Single Cylinder Diesel Mailing List
SUBJECT: 1R Test Specified Fuel Designation Change

As approved the surveillance panel, the fuel designation information for the 0.04% sulfur fuel in the 1R test has been updated to PC-9-HS. Section 7.13 has been updated to reflect this change and is attached.

The attached changes to Test Method D6750 are effective April 27, 2012.

Hind Abi-Akar

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Caterpillar, Inc.

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Attachment

c: ftp://ftp.astmtmc.cmu.edu/docs/diesel/scote/procedure_and_ils/1r/il12-01-1r.pdf

Distribution: Email

(Revises Test Method D6923-10a)

7.13 *Test Fuel*—The specified test fuel is Chevron Phillips PC-9-HS Reference Diesel Fuel. The specification requirements are shown in Annex A7.

A7. ADDITIONAL REPORT FORMS

TESTS		RESULTS	SPECIFICATIONS	METHOD
Date of Shipment: 12/11/2000				
Inv./Reqn. No. 5305779				
MFG 11/20/2000				
Include a copy of the Supplier's Fuel Sheet in the Test Report				
Customer Order No. 1RO9030				
Trailer No. 310				
PC-9-HS				
Reference Diesel Fuel				
OKPPC901				
TESTS		RESULTS	SPECIFICATIONS	METHOD
Specific Gravity	0.8520		0.845–0.8524	ASTM D4052
API Gravity	34.58		34.5–36.0	ASTM D1298
Corrosion, 50 °C, 3 h	1A		1 max	ASTM D130
Sulfur, mass fraction %	0.0414		0.04–0.05	ASTM D2622
Flash Point, °C	152		130 min	ASTM D93
Pour Point, °C	0		0 max	ASTM D97
Cloud Point, °C	+9		Report	ASTM D2500
Viscosity, mm ² /s, 40 °C	2.69		2.4–3.0	ASTM D445
Carbon Residue on 10 % Bottoms	0.0		0.35 max	ASTM D524
Net Heat of Combustion	18416		Report	ASTM D3338
Water & Sediment, vol %	0.0		0.05 max	ASTM D2709
Accelerated Stability (mg/100 mL)	0.4		0.5 max	(PAD)
Total Acid No.	0.003		0.05 max	
Strong Acid No.	0		0 max	
Cetane Index	46.55		Report	ASTM D976
Cetane Number	45.8		42–46	ASTM D613
DISTILLATION, °C			Report	ASTM D86
IBP	177			
5 %	205			
10 %	214			
20 %	231			
30 %	244			
40 %	256			
50 %	267			
60 %	277			
70 %	288			
80 %	301			
90 %	320		280–340	
95 %	354			
EP	354			
Loss	0.5			
Residue	1.0			
HYDROCARBON TYPE, VOL%			ASTM D1319	
Aromatics	32.6		28–33	
Olefins	1.2		Report	
Saturates	66.2		Report	

BJS: teh 12/11/00 1033803

FIG. A7.1 Fuel Batch Analysis Example