



Test Monitoring Center

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1P Information Letter No. 12-1
Sequence No. 8
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: 1P Test Specified Fuel Designation Change

As approved by the surveillance panel, the fuel designation information for the 0.04% sulfur fuel in the 1P test has been updated to PC-9-HS. Section 7.15 and Annex 14 have been updated to reflect this change and are attached.

The attached changes to Test Method D6681 are effective March 29, 2011.

Hind Abi-Akar

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Caterpillar, Inc.

Frank M. Farber
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ASTM Test Monitoring Center

Attachment

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

Distribution: Email

(Revises Test Method D6681-10a)

7.15 *Fuel*—Obtain the required test fuel from Chevron Phillips^{9,22} as PC-9-HS Reference Diesel Fuel (see Annex A14).

A14. ADDITIONAL REPORT FORMS

A14.1 Figs. A14.1 and A14.2 are sample report forms.

Product: _____
 Product No.: _____

Batch No.: _____
 TMC No.: _____
 TMO No.: _____
 Tank No.: _____
 Analysis Date: _____
 Shipment Date: _____

TEST	METHOD	UNITS	SPECIFICATIONS			RESULTS, °C
			MIN	TARGET	MAX	
Distillation — IBF	D86	°C	177			
10 %		°C	210			
50 %		°C	249			
90 %		°C	299			
Distillation — EP		°C	327			
Recovery		vol %		REPORT		
Residue		vol %		REPORT		
Loss		vol %		REPORT		
Gravity	D4052	°API	32.0		36.0	
Pour Point	D97	°C			-17	
Cloud Point	D2500	°C			-12	
Flash Point	D93	°C	54			
Viscosity @ 40 °C	D445	mm ² /s	2		3.2	
Mercaptan Sulfur	D3227	mass %		REPORT		
Sulfur	D2622	mass %	0.030		0.050	
Composition, Aromatics	D1319	vol %	28.0			
Composition, Olefins	D1319	vol %		REPORT		
Composition, Saturates	D1319	vol %		REPORT		
Basic sediment & water	D2709	vol %				
Ramsbottom Carbon, 10% residue	D524	mass %				
Ash content	D482	mass %				
Total Acid Number	D664	mg KOH/s		REPORT		
Strong Acid Number	D664	mg KOH/s		REPORT		
Accelerated Stability	D2274	mg/100 mL		REPORT		
Copper Corrosion	D130					
Cetane Number	D613					
Aliphatic paraffins	D2425	mass %		REPORT		
Monocycloparaffins	D2425	mass %		REPORT		
Dicycloparaffins	D2425	mass %		REPORT		
Tricycloparaffins	D2425	mass %		REPORT		
Alkylbenzenes	D2425	mass %		REPORT		
Indanes/Tetralins	D2425	mass %		REPORT		
Indenes	D2425	mass %		REPORT		
Napthalene	D2425	mass %		REPORT		
Napthalenes	D2425	mass %		REPORT		
Acenaphthenes	D2425	mass %		REPORT		
Acenaphthylenes	D2425	mass %		REPORT		
Tricyclic aromatics	D2425	mass %		REPORT		

Approved by: _____

Analyst: _____

NOTE—Include a copy of Suppliers Fuel Sheet in the Test Report.

FIG. A14.1 Fuel Batch Analysis Example