State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-68
Relating to Certification of New Heavy-Duty Motor Vehicle Engines

CATERPILLAR, INC.

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following Caterpillar, Inc. 1993 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 8,500 pounds:

Fuel Type: Diesel

Engine Family		lacement (Cubic Inches)	Exhaust Emission Control Systems and Special Features
PCT0638FPC8	10.5	(638)	Turbocharger Smoke Puff Limiter Charge Air Cooler

Engine models and codes are listed on attachments.

The following are the certification emission standards for this engine family in grams per brake-horsepower-hour:

Hydrocarbons	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	<u>Particulates</u>	
1.3	15.5	5.0	0.25	

The following are the certification emission values for this engine family in grams per brake-horsepower-hour:

Engine Family Hydrocarbons		Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	<u>Particulates</u>
PCT0638FPC8	0.6	1.3	4.2	0.24

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

CATERPILLAR, INC.

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this Ab d

_ day of October, 1992.

R. B. Summerfield Assistant Division Caief

Mobile Source Division

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1993 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

12-16-92

HEAVY-DUTY DIESEL ENGINES

Manufacturer	Caterpillar Inc.	Engine Fam	PCTO638FPC8	
Liter (CID)	10.5 (638)	Fuel Type	#2 Diesel (.25% Sulfur)	Engine Config. 16
Exhaust Emiss	ion Control Sys. and (Special	Features)	EM, SPL (TC,CAC,DI)	

(Use abbreviations per SAE J1930 JUN 88)

P9839 (1)	7 u 7045	300 m 2000	169	
P9839 (1)	7W7045	285 a 2000	158	• • •
10155 (1)	7W7045	300 a 1800	184	
510155 (1)	7W7045	285 a 1800	174	
S10155 (2)	1007552	300 a 1800	181	
510155 (2)	1007552	285 a 1800	170	
045087 (2)	1007552	305 m 1900	178	•••
045087 (2)	1007552	290 a 1900	167	
	P9839 (1) 10155 (1) 10155 (1) 10155 (2) 10155 (2) 10155 (2) 1045087 (2)	P9839 (1) 7W7045 10155 (1) 7W7045 10155 (1) 7W7045 10155 (2) 1007552 1007552 1007552	P9839 (1) 7W7045 285 a 2000 P9839 (1) 7W7045 300 a 1800 P10155 (1) 7W7045 285 a 1800 P10155 (2) 1007552 300 a 1800 P10155 (2) 1007552 285 a 1800 P10155 (2) 1007552 305 a 1900	P9839 (1) 7W7045 285 a 2000 158 10155 (1) 7W7045 300 a 1800 184 10155 (1) 7W7045 285 a 1800 174 10155 (2) 1007552 300 a 1800 181 10155 (2) 1007552 285 a 1800 170 1045087 (2) 1007552 305 a 1900 178

Revisions: 042090

1032957 (1) Basic Fuel Pump 4P9827

(Reference Page No. 16.04-0638FPC-1). (Reference Page No. 16.04-0638FPC-1).

(2) Basic Fuel Pump

Revision No. 1 - 09 DEC 92

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1993 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

HEAVY-DUTY DIESEL ENGINES

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Manu	facturer <u>Cater</u>	pillar Inc.	Engine Fami	ly PCT0638F	PC8	
	r (CID) 10.5		_	#2 Dieset (.25		gine Config. 1
Exha	ust Emission Con	trol Sys. and (Spe	cial features)	SPL (TC,CA	<u> </u>	
(Use	abbreviations p	er SAE J1930 JUN 8	8)			
	Engine Model (Eng. Code)	Fuel Pump MFR. P/N	Injector MFR. P/N	Rated HP @ RPM	Fuel Rate @ Bated HP mm /stroke	Part. Trap/ Catalyst MFR. P/N
	3306C (A)	4P9839 (1)	7W7045	300 a 2000	169	
	(A)	4P9839 (1)	7w7045	285 a 2000	158	•••
	(B)	610155 (1)	7W7045	300 a 1800	184	
	(8)	610155 (1)	7W7045	285 a 1800	174	•••

Revisions: 042090

(1) Basic Fuel Pump

1032957

(Reference Page No. 16.04-0638FPC-1).

Revision No.

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