State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-103

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-45-9;

IT IS ORDERED AND RESOLVED: That the following 1996 model-year Caterpillar, Inc. diesel-cycle engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Diesel

Engine Family	Engine	Displacement	Exhaust Emission Control
	Liters	(Cubic Inches)	Systems and Special Features
TCP638EZDARA	10.5	(638)	Turbocharger Charge Air Cooler Smoke Puff Limitter

Engine models and codes are listed on attachments.

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

<u>Hydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	<u>Particulates</u>
1.3	15.5	5.0	0.10

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

Engine <u>Family</u>	<u>Hydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	<u>Particulates</u>
TCP638EZDARA	0.5	0.8	5.0	0.09

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.).

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

day of November 1995.

R. B. Summerfield
Assistant Division Chief Mobile Source Division

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1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer	Caterpillar Inc.		Engine Family	TCP638EZDARA				
Displacement	10.5			Liters	638	1	Cubi	c Inches
Maximum Rated Power:	300		HP @	1900—	RPM		Engine Configu	ration: 16
Ignition: Compression	X		Compt	ression with Glow	Plug		Spark _	
Fuel Type (s): Dedicated		Flex-Fuel	•	Dual-Fuel	Diesel	X	M100	M85
· ·		CNG	LNG	LPG	Other (speci	fy)		
Diesel Cert Fuel: 13CCR 2282		40 CFF	- 286.131	13-90		40	CFR 86.1313-94	<u>X</u>
Primary Intended Service Cla		LHD		MHD	HHD	X	Urban Bus	
Exhaust ECS (incl. MFI, TO		CAC, SPL	, TC					

(Use abbreviations per SAE J1930 SEP91)

Engine Model (Eng. Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm³/stroke (lbs/hr	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
3306C - 1	300 @ 1900	183 (117.1)	1193842 (1) 1007564 (2)		***	
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- (1) FUEL PUMP
- (2) FUEL INJECTOR

	 	 	 	 	
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