State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-118

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 1997 model-year Caterpilar, 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

		isplacement	Exhaust Emission Control		
Engine Family		<u>Cubic Inches)</u>	Systems and Special Features		
VCP967EZDARK	15.8	(967)	Turbocharger Charge Air Cooler Engine Control Module		

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:

	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:

<u>Hydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	<u>Particulates</u>
0.1	0.4	3.7	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 $\frac{15}{15}$

day of January 1997.

R. B. Summerfield, Chief

Mobile Source Operations Division

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1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer	Cate	rpillar Inc.		Engine Family	nily VCP967EZDARK			
Displacement	15.8	1		Liters	967	/	Cubi	c Inches
Maximum Rated Power:	600	<u> </u>	HP@	1800	RPM		Engine Configu	ration: 16
Ignition: Compression	Х		Compr	ession with Glow	Plug		Spark	
Fuel Type (s): Dedicated	×	Flex-Fuel		Dual-Fuel	Diesel	X	M100	M85
		CNG	LNG	LPG	Other (spec	ify)		
Diesel Cert Fuel: 13CCR 228	2	40 CFR	86.131	3-90		40	CFR 86.1313-94	X
Primary Intended Service Cla	ass:	- LHD		MHD	HHD	X	Urban Bus	
Exhaust ECS (incl. MFI, T	C, CAC)	CAC, ECN	и, TC					
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(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.
3406E - 1	600 @ 1800	325 (196.8)	1171148	1334016		
3406E - 2	600 @ 1800	325 (196.8)	1171148	1406407		

ISSUE DATE		07 NC	OV 96		,
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