

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 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

<u>Engine Family</u>	<u>Engine Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
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:

<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen 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:

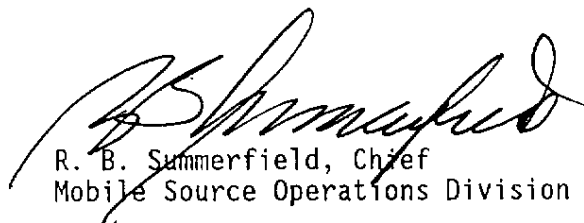
<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
0.1	0.4	3.7	0.09

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 15th day of January 1997.



R. B. Summerfield, Chief
Mobile Source Operations Division

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

Manufacturer	<u>Caterpillar Inc.</u>	Engine Family	<u>VCP967EZDARK</u>
Displacement	<u>15.8 /</u>	Liters	<u>967 /</u> Cubic Inches
Maximum Rated Power:	<u>600</u>	HP @ <u>1800</u>	RPM Engine Configuration: <u>I6</u>
Ignition: Compression	<u>X</u>	Compression with Glow Plug	<u>Spark</u>
Fuel Type (s): Dedicated	<u>X</u>	Flex-Fuel _____	Dual-Fuel _____ Diesel <u>X</u> M100 _____ M85 _____
		CNG _____ LNG _____ LPG _____	Other (specify) _____
Diesel Cert Fuel: 13CCR 2282	<u>40 CFR 86.1313-90</u>	<u>40 CFR 86.1313-94</u>	<u>X</u>
Primary Intended Service Class:	<u>LHD</u>	<u>MHD</u>	<u>HHD X</u> Urban Bus _____
Exhaust ECS (incl. MFI, TC, CAC)	<u>CAC, ECM, TC</u>		

(Use abbreviations per SAE J1930 SEP91)

Engine Model (Eng. Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm ³ /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	---	---

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