## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-13-142

Relating to Certification of New Heavy-Duty Engines and Vehicles

## CATERPILLAR, INC.

Pursuant to the authority vested in the Air Resources Board at Sections 43100, 43101, and 43102 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned at Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9; and

Pursuant to the December 15, 1998 Settlement Agreement between the Air Resources Board and Caterpillar, Inc. and any modifications to the Settlement Agreement;

IT IS ORDERED AND RESOLVED: That the following engine and emission control system produced by the manufacturer are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Model Year: 2001

Fuel Type: Diesel

Engine Family		lacement <u>Cubic Inches</u>	Exhaust Emission Control Systems and Special Features
1CPXH0967ERK	15.8	967	Turbocharger Charge Air Cooler Electronic Control Module Direct Diesel Iniection

Engine models and codes are listed on attachments.

BE IT ORDERED AND RESOLVED: That the following are the certification exhaust emission standards (Title 13, California Code of Regulations, Section 1956.8) and certification exhaust emission values for this engine family in grams per brake horsepower-hour under the Federal Test Procedure ("FTP"):

	Total	Carbon	Nitrogen	Particulate
	<u>Hydrocarbons</u>	<u>Monoxide</u>	Oxides	<u>Matter</u>
Standard	1.3	15.5	4.0	0.10
Certification	0.1	1.2	3.8	0.08

BE IT FURTHER RESOLVED: That pursuant to the Settlement Agreement and any modifications thereof, the aforementioned engine family is also subject to the emission standards, including a "Not-to-Exceed" nitrogen oxides emission standard of 7.0 grams per brake horsepower-hour, under the EURO III tests in the Settlement Agreement. The following are the certification exhaust emission standards and certification exhaust emission values for this engine family in grams per brake horsepower-hour under the EURO III tests:

	Total	Carbon	Nitrogen	Particulate
	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	<u>Matter</u>
Standard	1.3	15.5	6.0	0.10
EURO III	0.1	0.4	5.7	0.03

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, Sections 2035 et seq.).

BE IT FURTHER RESOLVED: That the aforementioned engine family has been conditionally certified subject to the following conditions:

- 1. The Settlement Agreement is in effect.
- 2. Caterpillar, Inc. is in compliance with all applicable certification requirements of the Settlement Agreement.

Engines certified under this Executive Order must conform to all applicable California emission regulations and to all applicable terms and conditions of the Settlement Agreement.

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

Executed at El Monte, California this \_\_\_\_\_ day of December 2000.

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- R. B. Summerfield, Chief Mobile Source Operations Division

Engine Model Summary Form

A. ACHMENT

**CATERPILLAR INC. On-highway HDDE** Engine category: Manufacturer:

EPA Engine Family: 1CPXH0967ERK

Mfr Family Name: NA

A-13-142

**New Submission** Process Code:

EM, DICAC, ECM, 8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930 EM, DICAC, ECM, EM, DICAC, ECM, EM, DICAC, ECM, EM, DI, TC, ECM may change 149.5 153.0 153.0 151.5 151.5 136.8 138.1 138.1 36.8 7.Fuel Rate: mm/stroke@peak torque these fuel rates 6.Torque @ RPM (SEA Gross) ion engine avgs. 2050 @ 1200 2050 @ 1200 2050 @ 1200 2050 @ 1200 1850 @ 1200 1850 @ 1200 2050 @ 1200 1850 @ 1200 1850 @ 1200 (lbs/hr) @ peak HP (for diesels only) Due to product-5.Fuel Rate: 203.2 199.2 199.2 197.3 197.3 193.4 193.4 191.5 191.5 mm/stroke @ peak HP (for diesel only) nominal values. 4.Fuel Rate: 329 329 326 326 319 319 316 336 316 3.BHP@RPM (SAE Gross) 600 @ 1800 600 @ 1800 575 @ 1800 575 @ 1800 575 @ 1800 575 @ 1800 fuel rates are 600 @ 1800 600 @ 1800 and Peak Torque 1.Engine Code 2.Engine Model C-16 Note: Peak Hp Cert Eng '97