State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-119-1

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 1998 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 Liters	(Cubic Inches)	Exhaust Emission Control Systems and Special Features
WCPXH0442HSK	7.1	(442)	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:

Total Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Particulates
1.3	15.5	4.0	0.10

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

Total Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Particulates
0.9	1.4	3.9	0.08

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.).

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

1. Any engine which employs a defeat device shall not be covered by this Executive Order.

2. Within 120 days following the issuance of Executive Order A-13-119, the manufacturer must show cause, to the satisfaction of the Executive Officer or his designee, that the strategy for fuel injection timing, including timing during the fuel economy mode, is not a defeat device.

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 25th day of February 1998.

R. B. Summerfield, Chief
Mobile Source Operations Division

LARGE ENGINE MODEL SUMMARY

9/24/97

EO: A-13-119-1

Manufacturer: CATERPILLAR INC. Process Code: New Submission

EPA Engine Family: WCPXH0442HSK Manufacturer Family Name: NA

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
Note: Peak HP	and Peak Torque	fuel rates are	nominal values.	Due to product-	ion engine avgs.	these fuel rates	may change.	
1 - Cert. Engine	3126	330 @ 2400	152	123.1	860 @ 1440	158	76.8	EM, DI, TC, ECM,
2	3126	300 @ 2200	141	104.7	860 @ 1440	160	77.6	EM, DI, ~~TC~~ CAC, ECM,
3	3126	300 @ 2200	141	104.7	800 @ 1440	148	71.8	EM, DI, ~~TC~~ CAC, ECM,
4	3126	275 @ 2200	129	95.1	860 @ 1440	160	77.6	EM, DI, ~~TC~~ CAC, ECM,
5	3126	275 @ 2200	126	95.1	800 @ 1440	148	71.8	EM, DI, ~~TC~~ CAC, ECM,
6	3126	250 @ 2200	116	86.1	800 @ 1440	148	71.8	EM, DI, ~~TC~~ CAC, ECM,
7	3126	250 @ 2200	116	86.1	660 @ 1440	122	59.2	EM, DI, ~~TC~~ CAC, ECM,
8	3126	230 @ 2200	108	79.9	660 @ 1440	123	59.6	EM, DI, ~~TC~~ CAC, ECM,
9	3126	210 @ 2200	99	72.9	605 @ 1440	113	54.9	EM, DI, ~~TC~~ CAC, ECM,
10	3126	210 @ 2200	99	72.9	520 @ 1440	99	48.0	EM, DI, ~~TC~~ CAC, ECM, CAC