## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-13-119-3

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 <u>Liters</u>	Displacement (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	Carbon	Nitrogen	<u>Particulates</u>
Hydrocarbons	<u>Monoxide</u>	<u>Oxides</u>	
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	Carbon	Nitrogen	<u>Particulates</u>
Hydrocarbons	<u>Monoxide</u>	<u>Oxides</u>	
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 180 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 \_\_\_\_\_\_\_\_day of April 1998.

R.)B. Summerfield, Chief

Mebile Source Operations Division

## LARGE ENGINE MODEY SUMMARY

E0: A-13-119-3

Nanufacturer: CATERPILLARING

PA Engine Family: WCPXH0442HSK

Manufacturer Family Name:

Process Code: New Submission

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PA Engine Fan	PA Engine Family: WLEADUSELLED	SELLAID.	4.Fuel Rate:	5.Fuel Rate:		7.Fuel Rate:		indian Carlo III to
Englos Cods	2.Engine Model	3.BHP@RPM (SAE Gross)	mm/stroke @ peak HP (for diesel only)	(ibs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	mm/stroke@peak torqua	(lbs/hr)@pesk torque	Device Per SAE J1930
	1	1_	nominal values	Due to product-	lon engine avgs.	these fuel rates	may change.	
lote: Peak HP	ote: Peak HP and Peak Lordue		Car Internal	122.1	+-	158	76.8	EM, DI, TC, ECM,
Carl Engine	3126	330 @ 2400	761	1.5.71	0777	160	77.8	FM DICHE ECM.
B. i. iii	2428	300 @ 2200	141	104.7	860 @ 1440	001	2	201
2	3120	0000	141	104.7	800 @ 1440	148	71.8	EM, DIVING, ECM,
en 	3126	300 @ 2200		7 3 6	0777 @ 030	160	77.8	EM DICTO ECM.
	2428	275 @ 2200	. 129	L.CB	000 (0.440	2	21.64	100 0000
4	3120	0000	176	95.1	800 @ 1440	148	71.8	EM, DIP CO, ECM,
S	3126	275 @ 2200	021		0000	148	71.8	EM. DICAG. ECM.
0	3428	250 @ 2200	116	90.1	מררו שם מחמ		000	THE PROPERTY
٥	24.0	0000	116	86.1	660 @ 1440	122	29.7	בא, טאָרט, הכאי,
7	3126	0022 @ 0c2	2	2007	660 @ 1440	123	59.6	EM DICTO ECM,
C	3426	230 @ 2200	901	13.3	211-		67.5	MYS SAN THE
0	2412	0000	00	72.9	605 @ 1440	113	D.4.8	EM, DIPOS, ECM,
æ	3126	210 @ 2200	aa	200	0777	60	48.0	EM DICTO ECM,
4	2426	210 @ 2200	66	6.7/	320 @ 1440	200		NAC.
2	3140							

