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## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-13-120-1

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:

<u>Fuel Type</u>: Diesel

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Engine Family	Engine Di	splacement	Exhaust Emission Control
	<u>Liters (C</u>	Subic Inches)	Systems and Special Features
WCPXH0442HRK	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>		
<u>1.3</u>	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>	
H <u>ydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>		
0.6	1.2	3.8	0.07	

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.). CATERPILLAR, INC.

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

- 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-13-120, 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 25

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R. B. Summerfield, Chief Mobile Source Operations Division

## LARGE ENGINE ME JEL SUMMARY

EO: A-13-120-1 9/24/97

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Manufacturer: CATERPILLAR INC.

Process Code: New Submission

EPA Engine Family: WCPXH0442HBK.

4.Fuel Rate: mm/stroke @ peak HP (for diesel only) 3.ВНР@RPM

Manufacturer Family Name: 5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)

8. Fuel Rate: 9. Emission Control (bs/hr)@peak torque Device Per SAE J1930 7.Fuel Rate: mm/stroke@peak torque 6. Torque @ RPM (SEA Gross)

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(SAE Gross)			fuel rates are	0000	190 @ 2200	175 @ 2200	0022 m c/1	
4 Engine Code 2 Engine Model	0		The mark the said bask Through fuel rates are		3126		3126	
1 Encipe Code				NOID: PEAK TIT	1 Cort Engine		~	