

E.O. Board

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-48
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-45-3;

IT IS ORDERED AND RESOLVED: That the following Caterpillar Inc. 1987 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 8,500 pounds:

<u>Engine Family</u>	<u>Displacement Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
HCT0636EPA5	636 (10.4)	Smoke Puff Limiter (Turbocharger) (Diesel Injection - Direct)

Engine models and codes are listed on attachments.

The following are the certification emission values for these engine families:

<u>Engine Family</u>	<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Nitrogen Oxides gm/bhp-hr</u>	<u>Particulates gm/bhp-hr</u>
HCT0636EPA5	1.2	3.0	5.8	0.58

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

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.

Executed at El Monte, California this 23rd day of September, 1987.


K. D. Drachand, Chief
Mobile Source Division

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AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINES

Manufacturer CATERPILLAR INC. Page _____

Engine Family HCT0636EPA5 CID(Liter)-Type 636 (10.4) V8

ECS (Special Features) EM, SPL, (TC, DID)

Engine Model	Fuel Injection Pump Manufacturer Part Number	Injector Manufacturer Part Number	Maximum Rated hp at rpm	Fuel Rate at Maximum hp mm ³ /stroke (lbs/hr)	Maximum Rated Torque LB-FT AT RPM	Fuel Rate at Maximum Rated Torque(LB-FT) mm ³ /stroke (lbs/hr)		
3208 Code D ✓	Caterpillar 7C1645 or 7C8930	Caterpillar 4W7016	240 @ 2100	93 (87.6)	700 @ 1500	108 (72.8)		
			240 @ 2200	90 (88.8)	680 @ 1500	105 (70.7)		
		Turbocharger 7W6643 7W2874	230 @ 2100	90 (84.5)	664 @ 1500	99 (66.5)		
			225 @ 2200	84 (82.6)	635 @ 1500	94 (63.2)		
			215 @ 2200	79 (78.4)	600 @ 1400	88 (55.3)		
		3208 Code E ✓	Caterpillar 7C8930	Caterpillar 4W7016	200 @ 2000	79 (70.9)	620 @ 1400	92 (57.6)
					175 @ 2200	65 (64.2)	500 @ 1400	72 (45.2)
Turbocharger 7W2875	250 @ 2600			84 (97.7)	650 @ 1400	99 (62.3)		
	225 @ 2600			75 (87.5)	600 @ 1400	87 (54.6)		
	210 @ 2600			68 (79.3)	560 @ 1400	80 (50.2)		

Date of Issue - 19 AUG 87