

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-30
Relating to Certification of New Motor Vehicle Engines

CATERPILLAR TRACTOR COMPANY

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 Tractor Company 1980 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating greater than 8500 pounds:

<u>Engine Family</u>	<u>Displacement Cubic Inches</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
13	636	Exhaust Gas Recirculation
14	638	(Turbocharged, Aftercooled)
16-Code C	893	(Turbocharged, Aftercooled)

Engine Models and Codes as listed on attachments.

Section 43200, Part 5, Division 26 of the California Health and Safety Code requires that the engine manufacturer furnish a decal with each engine sold or delivered to a vehicle manufacturer. The decal shall display the applicable model year heavy-duty engine exhaust emission standards and the following certification emission values:

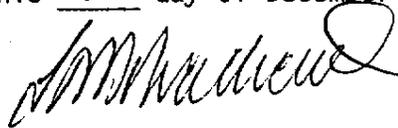
<u>Engine Family</u>	<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Hydrocarbons + Nitrogen Oxides gm/bhp-hr</u>
13	0.6	6	5.4
14	0.2	2	5.4
16-Code C	0.4	2	4.5

BE IT FURTHER RESOLVED: That Caterpillar Tractor Company has provided to the Executive Officer 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 and attachment.

Executed at El Monte, California this 6th day of December, 1979.



K. D. Drachand, Acting Chief
Mobile Source Control Division

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Engine Family

Engine Model

13	3208
14	3306
16-Code C	3406

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HEAVY-DUTY DIESEL ENGINES

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Engine Family 13 CID-Type 636-V8

ECS (Special Features) Exhaust Gas Recirculation

Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum ³ HP mm ³ /stroke	Label Ident.
3208	Caterpillar 9N2431 or 9N5178	Caterpillar 9N3979	200 @ 2800	63	9N6034
			175 @ 2800	54	

Date of Issue - 11-29-79

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HEAVY-DUTY DIESEL ENGINES

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Engine Family 14 CID-Type 638-I6

ECS (Special Features) Engine Modification (Turbocharged & Aftercooled)

Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum ³ HP mm /stroke	Label Ident.
3306	Caterpillar 9N2885	Caterpillar 9N2845	270 @ 2200	148	9N6034
			270 @ 2100*	154*	
	9N2886		245 @ 2200	134	

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*12-17-79 Revision

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HEAVY-DUTY DIESEL ENGINESManufacturer Caterpillar Tractor CompanyPage 4Engine Family 16-Code CCID-Type 893-I6ECS (Special Features) Engine Modification (TCA)

Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP mm ³ /stroke	Label Ident.
3406	Caterpillar 9N6355	Caterpillar 9L6884	380 @ 2100	210	9N6035
			300 @ 2100	166	
			300 @ 1900	177	

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