

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-14  
Relating to Certification of New Motor Vehicle Engines

CATERPILLAR TRACTOR COMPANY

Pursuant to the authority vested in the Air Resources Board by Sections 43100 and 43102 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 Caterpillar Tractor Company 1977 model-year diesel-powered engines in heavy-duty motor vehicles are certified for the engine family described below:

<u>Engine Family</u>	<u>Engine Size (CID)</u>	<u>Engine Model</u>	<u>Type</u>
7	893	1693	Inline six - Turbocharged-Aftercooled

Section 43200, Part 5, Division 26 of the California Health and Safety Code requires that the manufacturer affix a decal to the side window to the rear of the driver or, if there is no such window on the driver's side, to the windshield of the motor vehicle.

The decal shall display the applicable model year heavy-duty engine exhaust emission standards and the following recommended values:

<u>Engine Family</u>	<u>HC + NOx gm/bhp-hr</u>	<u>CO gm/bhp-hr</u>	<u>HC gm/bhp-hr</u>	<u>NOx gm/bhp-hr</u>
7	Not applicable	1	0.2	5.1

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Department of Motor Vehicles, the California Highway Patrol, and the Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California, this 17 day of December, 1976.

*G. C. Hass*  
G. C. Hass, Chief  
Vehicle Emissions Control Division

## 1977 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

Manufacturer Caterpillar Tractor Co. Executive Order No. A-13-14 Page 1Engine Family 7 Engine (CID) 893Emission Control Systems \_\_\_\_\_ Type Turbocharger and aftercooler

Engine Model	Fuel Pump Mfgr. Part Number	Injector Mfg. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP	Basic Initial Timing
1693	Caterpillar 9L4616	Caterpillar 7S1059	425 HP @ 2100 RPM  380 HP @ 2100 RPM  375 HP @ 2100 RPM	235 mm <sup>3</sup> /stroke 167 lbs/hour  208 mm <sup>3</sup> /stroke 148 lbs/hour  207 mm <sup>3</sup> /stroke 147 lbs/hour	8° BTDC (static)
Comments					
Date of Issue					

## Abbreviation

## Type

NA - Natural Aspiration

TC - Turbocharged

TCA- Turbocharged and Aftercooled