

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-22
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 Caterpillar Tractor Company 1978 model-year diesel-powered engines in heavy-duty motor vehicles with manufacturer's gross vehicle weight rating greater than 8500 pounds are certified for the engine family, codes and models described below:

<u>Family</u>	<u>Engine Size (CID)</u>	<u>Type</u>
10	893	Inline six-Turbocharged Aftercooled

Models and Engine Codes as listed in attachment.

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>
10	Not applicable	1	0.3	5.0

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 28 day of November, 1977.

G. C. Hass

G. C. Hass, Chief
Vehicle Emissions Control Division

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

Manufacturer Caterpillar Tractor Co. Executive Order No. A-13-22 Page 1
 Engine Family 10 Engine (CID) 893
 Emission Control Systems _____ Type 16-TCA

Engine Model	Fuel Injection Pump Mfg. Part Number	Injector Mfg. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP	Basic Initial Timing
3406	Caterpillar 9N72	Caterpillar 4N1251	375 HP @ 2100 RPM 360 HP @ 2100 RPM 340 HP @ 1950 RPM	211mm ³ /stroke 150 lbs/hr 197 mm ³ /stroke 140 lbs/hr 200 mm ³ /stroke 131.9 lbs/hr	10° BTDC (static)

Comments

Date of Issue

Abbreviations

Type

NA - Natural Aspiration
 TC - Turbocharged
 TCA- Turbocharged and Aftercooled

Emission Control Systems

AC - Aftercooler
 EGR - Exhaust Gas Recirculation
 TD - Throttle Delay