

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-18
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> |
|----------------------|----------------------------|---------------------|---|
| 13 | 636 | 3208 | V-8 - Natural Aspiration - Exhaust Gas Recirculation |

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.

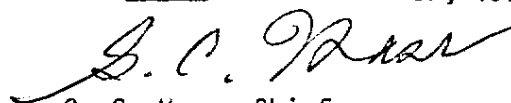
The following are the recommended values to be listed on the decal:

| <u>Engine Family</u> | <u>HC + NO₂ gm/bhp-hr</u> | <u>CO gm/bhp-hr</u> | <u>HC gm/bhp-hr</u> | <u>NO₂ gm/bhp-hr</u> |
|----------------------|--|-------------------------|-------------------------|-------------------------------------|
| 13 | 5 | 7 | Not Applicable | Not Applicable |

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 29 day of October, 1976.



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

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

Manufacturer Caterpillar Tractor Company Executive Order No. A-13-18 Page 1Engine Family 13 Engine (CID) 686Emission Control Systems EGR Type NA

| Engine Model | Fuel Pump Mfgr. Part Number | Injector Mfg. Part Number | Maximum Rated HP and RPM | Fuel Rate at Maximum HP | Basic Initial Timing |
|--------------|-----------------------------------|---|-----------------------------------|---|----------------------------|
| 3208 | Caterpillar Tractor 9N2421 | Stanadyne 9L6969 9N3700 9N3299 | 200 HP @ 2800 RPM | 63 mm ³ /stroke 79.6 lbs/hr | 16° BTDC (static) |

Comments

EGR Control Group Part Number: 9N2300 (not identified on part; see certification engineer).

Date of Issue: October 29, 1976; Rev. 111676 (correct injector mfg.)

P/N 9N3700 added 5-25-77 RC 77-13-1N. P/N 9N3299 added 7-11-77 RC 77-13-3R.

Abbreviation

Type

NA - Natural Aspiration

TC - Turbocharged

TCA - Turbocharged and Aftercooled

Emission Control Systems

EGR - Exhaust gas recirculation