

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-29  
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 1979 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<br/>Cubic Inches</u> | <u>Exhaust Emission Control Systems<br/>(Special Features)</u> |
|----------------------|--------------------------------------|--|
| 16-Code C            | 893                                  | (Turbocharged, Aftercooled)                                    |

Engine Models and Codes as listed on attachments.

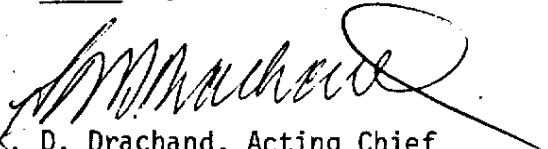
Section 43200, Part 5, Division 26 of the California Health and Safety Code requires that the engine manufacturer furnish a decal with each engine sold or delivered to a vehicle manufacturer. The decal shall display the applicable model year heavy-duty engine exhaust emission standards and the following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

| <u>Engine<br/>Family</u> | <u>Hydrocarbons<br/>gm/bhp-hr</u> | <u>Carbon<br/>Monoxide<br/>gm/bhp-hr</u> | <u>Nitrogen<br/>Oxides<br/>gm/bhp-hr</u> |
|--------------------------|-----------------------------------|--|--|
| 16-Code C                | 0.4                               | 2  | 4.1                                      |

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 6<sup>th</sup> day of December, 1979.

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

1979 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY DIESEL ENGINES

Manufacturer Caterpillar Tractor Company Page 1

Engine Family 16 - Code C Engine (CID) 893

Emission Control Systems - Type 16, TCA

| Engine Model | Fuel Injection Pump Mfgr. Part Number | Injector Mfg. Part Number | Maximum Rated HP and RPM | Fuel Rate at Maximum HP mm <sup>3</sup> /stroke | Basic Initial Timing |
|--------------|---------------------------------------|---------------------------|--------------------------|---|----------------------|
| 3406         | Caterpillar<br>9N6355                 | Caterpillar<br>9L6884     | 380 @<br>2100            | 210   | 18.5° BTDC<br>static |
|              |                                       |                           | 300 @<br>2100            | 166   |                      |
|              |                                       |                           | 300 @<br>1900            | 177   |                      |

Date of Issue - 11-29-79

Abbreviations

Type

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

Emission Control Systems

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