 E.O.

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-15
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:

Engine Family	Engine Size (CID)	Engine Model	Type
9	893	3406	Inline six - Turbocharged

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:

Engine Family	HC + NOx gm/bhp-hr	CO gm/bhp-hr	HC gm/bhp-hr	NOx gm/bhp-hr
9	Not applicable	1	0.2	5.8

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, Chief
Vehicle Emissions Control Division

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

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Engine Family 9 Engine (CID) 893

Emission Control Systems _____ Type Inline six-Turbocharger

Engine Model	Fuel Pump Mfgr. Part Number	Injector Mfg. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP	Basic Initial Timing
3406	Caterpillar 9N588	Caterpillar 4N1251	325 HP @ 2100 RPM	190 mm^3/stroke 135 lbs/hour	10° BTDC static
			300 HP @ 1950 RPM	184 mm^3/stroke 121.5 lbs/hour	
			280 HP @ 2100 RPM	160 mm^3/stroke 114 lbs/hour	
			255 HP @ 1950 RPM	157 mm^3/stroke 103.5 lbs/hour	

Comments

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