## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-13-20 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 modelyear 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>	Engine Size CID	Туре	
4	638	Inline six-Turbocharged	

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:

Engine	HC + NOx	CO	HC	NOx
Family	gm/bhp-hr	gm/bhp-hr	gm/bhp-hr	gm/bhp-hr
4	Not applicable	1	0.2	6.1

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 \_\_\_\_\_\_ day of December, 1977.

G. C. Hass, Chief

Vehicle Emissions Control Division

8/29/2007

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

	4 ol Systems		ingine (CID)	: ፕሮ	
Engine Model	Fuel Injection Pump Mfgr. Part Number	Injector Mfg. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP	Basic Initial Timing
3306	Caterpillar 9N 2304	Caterpillar 758722	250 HP @ 2200 RPM 225 HP @ 2200 RPM	139 mm <sup>3</sup> /stroke 103.2 lb/hr 122 mm <sup>3</sup> /stroke 90.8 lb/hr	12° BTDC Static
	·				
omments	<u>.</u>				

Appreviations

Date of Issue

NA - Natural Aspiration

TC - Turbocharged

TCA- Turbocharged and Aftercooled

Emission Control Systems AC - Aftercooler

EGR - Exhaust Gas Recirculation

TD - Throttle Delay