

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-42  
Relating to Certification of New Motor Vehicle Heavy-Duty Engines

CATERPILLAR TRACTOR CO.

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 Co., 1985 model-year heavy-duty diesel engines have shown compliance with the optional transient standards and 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 Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
FCT0893FPB8	893 (14.6)	Engine Modifications (Air Fuel Controller) (Turbocharger) (Intercooler)

Engine models and codes are listed on attachments.

The following are the certification emission values for these engine families:

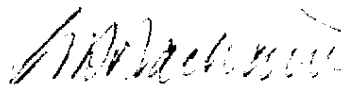
<u>Engine Family</u>	<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Nitrogen Oxides gm/bhp-hr</u>
FCT0893FPB8	0.28	2.4	5.1

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations including the intercooler used in the turbocharger system (Title 13, California Administrative Code, Section 2036).

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.

Executed at El Monte, California this 16<sup>th</sup> day of October, 1985.

  
K. D. Drachand, Chief  
Mobile Source Division

198 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY DIESEL ENGINESManufacturer Caterpillar Tractor Co. Page 1Engine Family FCT0893FPB8 CID(Liter)-Type 893 (14.6)ECS and (Special Features) EM (TC, IC)

Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP mm <sup>3</sup> /stroke	Label Ident.
3406 Code D	4W2551	4W7017	310@1800	173 mm <sup>3</sup>	
	Schwitzer Turbocharger 7C0455		285@1600	178 mm <sup>3</sup>	
3406 Code E	7L0007		400@2100	203 mm <sup>3</sup>	
			400@1800	223 mm <sup>3</sup>	
	Afiresearch Turbocharger 7W9472		370@1800	207 mm <sup>3</sup>	
			360@1700	212 mm <sup>3</sup>	

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