

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-35

Relating to Certification of New Motor Vehicle 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. 1983 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 Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
DCT1099FPA3	1099 (18.0)	(Diesel Injection-Prechamber) (Turbocharger, Aftercooler)
DCT0636DCA9	636 (10.4)	Exhaust Gas Recirculation (Diesel Injection - Direct)
DCT0638FPA9	638 (10.5)	(Diesel Injection-Prechamber) (Turbocharger, Aftercooler)
DCT0893FPA9	893 (14.6)	(Diesel Injection - Direct) (Turbocharger, Aftercooler)
DCT0636EPA9	636 (10.4)	(Diesel Injection - Direct) (Turbocharger)

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:

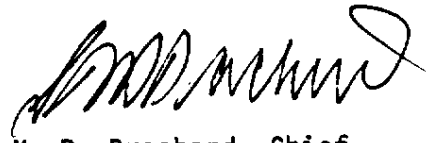
<u>Engine Family</u>	<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Hydrocarbons + Nitrogen Oxides gm/bhp-hr</u>
DCT1099FPA3	0.1	1	4.8
DCT0636DCA9	0.6	6	5.4
DCT0638FPA9	0.2	2	5.4
DCT0893FPA9	0.4	2	4.5
DCT0636EPA9	0.6	3	5.9

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 (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 and attachment.

Executed at El Monte, California, this 30<sup>th</sup> day of April, 1982.



K. D. Drachand, Chief  
Mobile Source Control Division

1983 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Caterpillar Tractor Co. Executive Order No. A-13-35 Page 1  
 Engine Family ----- Evaporative Family N/A  
 Engine CID (Liters) ---

ABBREVIATIONS

Ignition System

CA -Centrifugal Advance  
 EEC-Electronic Engine Control  
 EI -Electronic Ignition  
 ESAC-Electronic Spark Advance Control  
 VA -Vacuum Advance  
 VR -Vacuum Retard

Fuel System

CFI, CL, DID, DIP, EFI, MFI  
 nV -nVenturi Carburetor  
 VV -Variable Venturi

Exhaust Emissions Control System

AIP-Air Injection-Pump  
 AIV-Air Injection-Valve  
 CL -Closed Loop  
 EGR-Exhaust Gas Recirculation  
 EM -Engine Modification  
 OC -Oxidation Catalyst System  
 TR -Thermal Reactor  
 TWC-Three Way Catalyst System

Special Features

CCV-Combustion Chamber Valve  
 CFI-Central Fuel Injection  
 DID-Diesel Injection-Direct  
 DIP-Diesel Injection-Prechamber  
 MFI-Mechanical Fuel Injection  
 TC -Turbocharged

Engine Family

DCT0636DCA9  
 DCT0636EPA9  
 DCT0638FPA9  
 DCT0893FPA9  
 DCT1099FPA3

Engine Model

3208  
 3208-Code B  
 3306  
 3406-Code C  
 3408

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1983 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY DIESEL ENGINES

Manufacturer CATERPILLAR TRACTOR CO. Page 2  
 Engine Family DCT0636DCA9 CID(Liter)-Type 636(10.4) V8  
 ECS (Special Features) EGR

Engine Model	Fuel Injection Pump Manufacturer Part Number	Injector Manufacturer Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP mm <sup>3</sup> /stroke	Label Identification
3208	CATERPILLAR  8N5642	STANADYNE 1W5829	200 @ 2800	63	2W7800
			175 @ 2800	54	

Date of Issue -

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1983 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY DIESEL ENGINES

Manufacturer CATERPILLAR TRACTOR CO. Page 3  
 Engine Family DCT0636EPA9 CID(Liter)-Type 636(10.4) V8  
 ECS (Special Features) EM (TC)

Engine Model	Fuel Injection Pump Manufacturer Part Number	Injector Manufacturer Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP mm <sup>3</sup> /stroke	Label Identification
3208 CODE B	CATERPILLAR 1W6740	STANADYNE 1W5829	210 @ 2600	77	2W7800
	<u>TURBOCHARGER</u> 1W7271		200 @ 2600	73	

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1983 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY DIESEL ENGINES

Manufacturer CATERPILLAR TRACTOR CO. Page 4  
 Engine Family DCT0638FPA9 CID(Liter)-Type 638(10.5) I6  
 ECS (Special Features) EM (TC, AC)

Engine Model	Fuel Injection Pump Manufacturer Part Number	Injector Manufacturer Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP mm <sup>3</sup> /stroke	Label Identification
3306	CATERPILLAR 6N5359  <u>TURBOCHARGER</u> 9N1289 9N1287	CATERPILLAR 9N2845	270 @ 2200	148	2W7800
			270 @ 2100	154	
			245 @ 2200	134	
			245 @ 2100	136	

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1983 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY DIESEL ENGINES

Manufacturer CATERPILLAR TRACTOR CO. Page 5  
 Engine Family DCT0893FPA9 CID(Liter)-Type 893(14.6) I6  
 ECS (Special Features) EM (TC, AC)

Engine Model	Fuel Injection Pump Manufacturer Part Number	Injector Manufacturer Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP mm <sup>3</sup> /stroke	Label Identification
3406 CODE C	CATERPILLAR 9N6102	CATERPILLAR 9L6884	380 @ 2100	210	2W7800
			300 @ 2100	166	
			300 @ 1900	177	
			350 @ 1800	214	
	<u>TURBOCHARGER</u> 9N6301 9N6302 9N2702 9N2703				

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1983 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY DIESEL ENGINES

Manufacturer CATERPILLAR TRACTOR CO. Page 6  
 Engine Family DCT1099FPA3 CID(Liter)-Type 1099(18.0) V8  
 ECS (Special Features) EM (TC, AC)

Engine Model	Fuel Injection Pump Manufacturer Part Number	Injector Manufacturer Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP mm <sup>3</sup> /stroke	Label Identification
3408	CATERPILLAR 9N3326	CATERPILLAR 7N9843	450 @ 2100	191	2W7800
			425 @ 2100	179	
			400 @ 2100	169	
			425 @ 1950	191	
			400 @ 1950	179	
	<u>TURBOCHARGER</u> 9N888				

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