

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-39  
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 1984 model-year heavy-duty diesel-powered 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>
ECT0636DCA8	636 (10.4)	Exhaust Gas Recirculation Engine Modification (Diesel Injection-Prechamber)

Engine models and codes are 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>Nitrogen Oxides gm/bhp-hr</u>
ECT0636DCA8	1.1	5.2	5.0

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).


CATERPILLAR TRACTOR COMPANY

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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 19<sup>th</sup> day of December, 1983.



K. D. Drachand, Chief  
Mobile Source Division

1984 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Caterpillar Tractor Co. Executive Order No. A-13-39 Page 1  
 Engine Family ECT0636DCA8 Evaporative Family N/A  
 Engine CID (Liters) 636 (10.4) V8

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

ECT0636DCA8

Engine Model

3208-Code A  
 3208-Code B\*

4.5  
 ksh

\* 2/2/84 - R/C ECT0636DCA-2: 12/23/84 Add'n of Code B Model

1984 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY DIESEL ENGINES

Manufacturer CATERPILLAR TRACTOR CO. Page 2  
 Engine Family ECT0636DCA8 CID(Liter)-Type 636(10.4) V8  
 ECS (Special Features) EM, EGR (DID)

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 A CODE B*	CATERPILLAR 8N5642	STANADYNE 1W5829	200 @ 2600	66	WINDOW DECAL 4W6780  FAMILY ENGINE LABEL 4W6771  CARB ENGINE LABEL 4W6770
			175 @ 2600	60	

Date of Issue -

Revised - 02/02/84 - R/C ECT0636DCA-2 (12/23/84) Add'n of model - Code B