#### State of California AIR RESOURCES BOARD

#### EXECUTIVE ORDER A-13-49

### Relating to Certification of New Heavy-Duty Motor Vehicle Engines

#### CATERPILLAR

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 1988 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds.

Engine Family	Displacement Liters (Cubic Inches)		Exhaust Emission Control Systems (Special Features)
JCT0636DAA8	10.4	(636)	Engine Modification

Engine models and codes are listed on attachments.

The following are emission standards for this engine family:

Hydrocarbons gm/bhp-hr	Carbon Monoxide gm/bhp-hr	Nitrogen Oxides gm/bhp-hr	Particulates gm/bhp-hr
1.3	15.5	6.0	0.6

The following are the certification emission values for this engine family:

Hydrocarbons gm/bhp-hr	Monoxide gm/bhp-hr	Carbon Nitrogen Oxides gm/bhp-hr	Particulates gm/bhp-hr	
1.2	2.6	6.0	0.6	

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. Executed at El Monte, California this 22 day of October, 1987.

Executed at El Monte, California this day of October, 1987.

> K. D. Drachand, Chief Mobile Source Division

E.O.	#	A-13-49
Page		1 of 1

# 1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

Manufacturer	Caterpillar Inc.			Engine Family	JCT0636D	AA8 Code B
Liter (CID)	10.4 (636)			Engine Type	V8	
Emission Control Sys. and (Special Features) BM (PC			BM (PC)	/)		
Engine Model	Fuel Injection Pump Manufacturer Part Number	Injector Manufacturer Part Number	Maximum Rated hp at rpm	Fuel Rate mm <sup>3</sup> /stroke (lbs/hr)	Maximum Rated Torque at RPM	Fuel Rate mm <sup>3</sup> /stroke (lbs/hr)
3208 DINA Code B	*Caterpillar 9Y0485	Caterpillar 7W7024	165 @ 2200	63 (62.7)	470 & 1400	72 (45.1)
*Basic Fuel Pump 7C8929 (Reference Page No. 16.05.01-0636DAA-1).						

Date of Issue 17 SEP 87 Revisions:

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## 1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer <u>Caterpillar l</u>	nc. Engine Family	JCT0636DAA8 Code B
Evaporative Family NA	Engine Type	V8
	Liters (CID)	10.4 (636)
ABBREVIATIONS		
Ignition System	Exhaust Emissions Control System	Special Features
CA -Centrifugal Advance ECU -Electronic Control Unit El -Electronic Ignition ESAC-Electronic Spark Advance Control VA -Vacuum Advance VR -Vacuum Retard	AIP -Air Injection-Pump AIV -Air Injection-Valve DBC -Dual Bed Catalyst EGR -Exhaust Gas Recirculation EIC -Electronic Injection Control EM -Engine Modification OC -Oxidation Catalyst OS -Oxygen Sensor HOS -Heated Oxygen Sensor SPL -Smoke Puff Limiter or	CCV -Combustion Chamber Valve CFI -Central Fuel Injection or Throttle Body Injection DID -Diesel Injection-Direct DIP -Diesel Injection- Prechamber EFI -Electronic
Fuel System	Throttle Delay TOC -Trap Oxidizer, Continual	Fuel Injection IC -Intercooler or Aftercooler
CFI, CL, DiD, DIP, EFI, MFI nV-nVenturi Carburetor	TOP -Trap Oxidizer, Periodical TWC -Three-Way Catalyst WUOC -Warm-Up Oxidation Catalyst WUTWC-Warm-Up Three-Way	MFI -Mechanical Fuel Injection OBD -On-Board Diagnostics TC -Turbocharger
VEHICLE MODELS:	Catalyst	ATAAC-Air-to-Air Aftercooled PEEC -Programmable Electronic Engine Control PCV -Positive Crankcase Ventilation
_	Rear	
Orlve: FWDRWD	4WD Full Time	4WD Part Time

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