State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-44 Relating to Certification of New Motor Vehicle Heavy-Duty 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 1986 model-year diesel engines have shown compliance with the optional transient test procedure and standards and are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating greater than 8500 pounds:

Engine Family	Displacement Cubic Inches (Liters)		Exhaust Emission Control Systems (Special Features)		
GCTO638FPC8	638	(10.5)	(Diesel Injection-Direct) (Turbocharger) (Aftercooler)		

Engine models and codes are listed on attachments.

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

Hydrocarbons Engine Family gm/bhp-hr		Carbon Monoxide gm/bhp-hr	Nitrogen Oxides gm/bhp-hr
GCT0638FPC8	1.1	4.4	4.8

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 _______ day of March, 1986.

K. D. Drachand, Chief Mobile Source Division

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer	Caterpillar Tractor Co.	Executive Order No. $A-/3-44$ Page 1
Engine Family		Evaporative Family N/A
		Engine CID (Liters) 638 (10.5) 16

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

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

AIP-Air Injection-Pump

Special Features

CCV -Combustion
Chamber Valve
CFI -Central Fuel
Injection
DID -Diesel
Injection-Direct
DIP -Diesel
InjectionPrechamber
MFI -Mechanical Fuel
Injection

TC -Turbocharged
AC -Aftercooled
AA/AC-Air-to-Air and
Aftercooled

Engine Family
GCT0638FPC8

Engine Model 3306B Code D 3306B Code E

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1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

Manufacturer	CATER	rage			
	GCT06	38FPC8	C	D(Liter)-Type	638 (10.5) 16
	eatures)(
Engine Model	Fuel Injection Pump Manufacturer Part Number	Injector Manufacturer Part Number	Maximum Rated hp and rpm	Fuel Rate at Maximum hp mm ³ /stroke	Label Identification
3306B CODE D	CATERPILIAR 7W5928	CATERPILLAR 8N7003	300 @ 2000 285 @ 2000	162 153	7CO9767-2
	TURBOCHARGER 7C3408				
3306B CODE E	CATERPILIAR 7W5928 TURBOCHARGER 7C3408	CATERPILLAR 8N7003	300 @ 2000 285 @ 1900 270 @ 1800	158	
Date of Issu	e - 132086	1			