

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-114

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

CATERPILLAR, INC

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-45-9;

IT IS ORDERED AND RESOLVED: That the following 1997 model-year Caterpillar, Inc. diesel-cycle engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Diesel

<u>Engine Family</u>	<u>Engine Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
VCP629EZDARX	10.3 (629)	Turbocharger Charge Air Cooler Engine Control Module

Engine models and codes are listed on attachments.

The following are the certification exhaust emission standards for this engine family in grams per brake horsepower-hour:

<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
1.3	15.5	5.0	0.10

The following are the certification exhaust emission values for this engine family in grams per brake horsepower-hour:

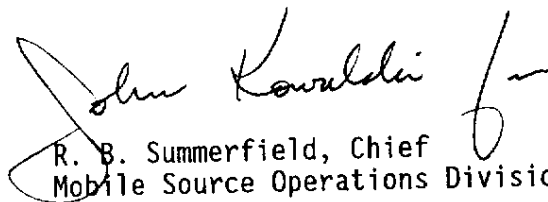
<u>Engine Family</u>	<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
VCP629EZDARX	0.1	1.2	4.3	0.07

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

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 attachments.

Executed at El Monte, California this 16th day of December 1996.


R. B. Summerfield, Chief
Mobile Source Operations Division

**1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL-STANDARD ENGINES**

Manufacturer Caterpillar Inc. Engine Family VCP629EZDARX
 Displacement 10.3 / Liters 629 / Cubic Inches
 Maximum Rated Power: 370 HP @ 1800 RPM Engine Configuration: I6
 Ignition: Compression X Compression with Glow Plug Spark
 Fuel Type (s): Dedicated X Flex-Fuel Dual-Fuel Diesel X M100 M85
 CNG LNG LPG Other (specify)
 Diesel Cert Fuel: 13CCR 2282 40 CFR 86.1313-90 40 CFR 86.1313-94 X
 Primary Intended Service Class: LHD MHD HHD X Urban Bus
 Exhaust ECS (incl. MFI, TC, CAC) CAC, ECM, TC

(Use abbreviations per SAE J1930 SEP91)

Engine Model (Eng. Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm ³ /stroke (lbs/hr)	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
C-10 - 1	370 @ 1800	201 (121.6)	1165414	1193718	---	---
C-10 - 2	370 @ 1800	201 (121.6)	1165414	1261414		
C-10 - 3	370 @ 1800	196 (118.8)	137-3497	137-7462		
C-10 - 4	350 @ 1800	188 (113.8)	1165414	1727161		
C-10 - 5	340 @ 1800	182 (110.1)	1165414	1283660		
C-10 - 6	335 @ 1800	179 (108.3)	1165414	1193717		
C-10 - 7	335 @ 1800	175 (105.8)	137-3497	133-0637		
C-10 - 8	325 @ 1800	171 (103.4)	1165424	1283632		
C-10 - 9	320 @ 1800	170 (102.9)	1165414	1283657		
C-10 - 10	305 @ 1800	161 (97.4)	1165424	1283629		
C-10 - 11	295 @ 1800	156 (94.4)	1165414	1283654		
C-10 - 12	280 @ 1800	147 (89.0)	1165424	1283626		

ISSUE DATE	09 SEPT 96						
REVISION NO.							
REVISION DATE							