

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-115

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>
VCP729EZDARX	12.0 (729)	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>
VCP729EZDARX	0.1	1.0	4.3	

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.).

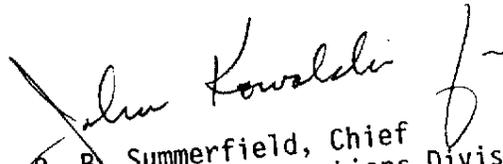
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Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order 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 VCP729EZDARX
 Displacement 12 / Liters 729 / Cubic Inches
 Maximum Rated Power: 430 HP @ 1800 RPM Engine Configuration: I6
 Ignition: Compression X Compression with Glow Plug _____ Spark _____
 Fuel Type (s): Dedicated _____ Flex-Fuel _____ Dual-Fuel _____ Diesel X M100 _____ M85 _____
 CNG _____ LNG _____ LPG _____ Other (specify) _____
 Diesel Cert Fuel: 13CCR 2282 40 CFR 86.1313-90 _____
 Primary Intended Service Class: LHD _____ MHD _____ HHD X Urban Bus _____
 Exhaust ECS (incl. MFI, TC, CAC) CAC, ECM, TC 40 CFR 86.1313-94 X
 (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-12 - 1	430 @ 1800	227 (137.4)	1372500	1377484		
C-12 - 2	425 @ 1800	226 (136.9)	1165425	1283685		
C-12 - 3	424 @ 1800	226 (136.9)	1165425	1309420		
C-12 - 4	410 @ 1800	220 (133.2)	1165425	1283668		
C-12 - 5	410 @ 1800	220 (133.2)	1165425	1283672		
C-12 - 6	410 @ 1800	208 (125.7)	1372500	1377470		
C-12 - 7	405 @ 1800	213 (128.7)	1165425	1283679		
C-12 - 8	380 @ 1800	197 (119.4)	1165425	1220788		
C-12 - 9	380 @ 1800	192 (116.1)	1372500	1377467		
C-12 - 10	375 @ 1800	194 (117.6)	1165425	1283675		
C-12 - 11	355 @ 1800	183 (110.6)	1165425	1249466		
C-12 - 12	355 @ 1800	183 (110.6)	1165425	1261421		

09 SEPT 96					
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