State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-100

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 1996 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

Engine Family	Engine Displacement Liters	(Cubic Inches)	Exhaust Emission Control Systems and Special Features
TCP729EZDARL	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:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Particulates
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:

Engine Family	Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Particulates
TCP729EZDARL	0.1	1.0	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 12th day of October 1995.

R. B. Summerfield
Assistant Division Chief
Mobile Source Division

E.O. # A-13-100

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer: Caterpillar Inc. Engine Family: TCP729EZDARL

Displacement: 12 / Liters 729 / Cubic Inches

Maximum Rated Power: 424 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 ___ 40 CFR 86.1313-94 X

Primary Intended Service Class: LHD ___ MHD X HHD ___ 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-12 - 1	425 @ 1800	226 (136.9)	1165425	1309421	---	---
C-12 - 2	424 @ 1800	226 (136.9)	1165425	1302177		
C-12 - 3	410 @ 1800	216 (130.7)	1165425	1302183		
C-12 - 3	410 @ 1800	216 (130.7)	1165425	1302175		
C-12 - 4	405 @ 1800	213 (128.7)	1165425	1302181		
C-12 - 5	380 @ 1800	197 (119.4)	1165425	1302171		
C-12 - 5	380 @ 1800	197 (119.4)	1165425	1302175		
C-12 - 6	375 @ 1800	194 (117.6)	1165425	1302179		
C-12 - 7	355 @ 1800	183 (110.6)	1165425	1302169		
C-12 - 7	355 @ 1800	183 (110.6)	1165425	1302173		

ISSUE DATE	08 SEPT 95							
REVISION NUMBER								
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C-12 - 1	425 @ 1800	226 (136.9)	1165425	*1283685*	---	---
C-12 - 2	424 @ 1800	226 (136.9)	1165425	*1309420*		
C-12 - 3	410 @ 1800	220 (133.2)	1165425	*1283668*		
C-12 - 3	410 @ 1800	220 (133.2)	1165425	*1283672*		
C-12 - 4	405 @ 1800	213 (128.7)	1165425	*1283679*		
C-12 - 5	380 @ 1800	197 (119.4)	1165425	*1220788*		
C-12 - 6	375 @ 1800	194 (117.6)	1165425	*1283675*		
C-12 - 7	355 @ 1800	183 (110.6)	1165425	*1249466*		
C-12 - 7	355 @ 1800	183 (110.6)	1165425	*1261421*		

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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		

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C-12 - 5	380 @ 1800	197 (119.4)	1165425	1302171		
C-12 - 5	380 @ 1800	197 (119.4)	1165425	1302175		
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C-12 - 7	355 @ 1800	183 (110.6)	1165425	1302173		

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