

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-101

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

<u>Engine Family</u>	<u>Engine Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
TCP403DZDAAA	6.6 (403)	Turbocharger Smoke Puff Limiter Charge Air Cooler Oxidation Catalytic Converter

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>
TCP403DZDAAA	0.2	1.0	4.4	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.).

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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 2<sup>nd</sup> day of November 1995.



R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

E.O. # A-13-101

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

Manufacturer	<u>Caterpillar Inc.</u>		Engine Family	<u>TCP403DZDAAA</u>	
Displacement	<u>6.6</u>	<u>/</u>	Liters	<u>403</u>	<u>/</u> Cubic Inches
Maximum Rated Power:	<u>215</u>	HP @	<u>2600</u>	RPM	Engine Configuration: <u>16</u>
Ignition: Compression	<u>X</u>	Compression with Glow Plug			Spark
Fuel Type (s): Dedicated	<u>          </u>	Flex-Fuel	<u>          </u>	Dual-Fuel	<u>          </u>
		CNG	<u>          </u>	LNG	<u>          </u>
		LPG	<u>          </u>	Other (specify)	<u>          </u>
Diesel Cert Fuel: 13CCR 2282	<u>          </u>	40 CFR 86.1313-90	<u>          </u>	40 CFR 86.1313-94	<u>X</u>
Primary Intended Service Class:	<u>LHD</u>	MHD	<u>X</u>	HHD	Urban Bus
Exhaust ECS (incl. MFI, TC, CAC)	<u>CAC, OC, SPL, TC</u>				

(Use abbreviations per SAE J1930 SEP91)

Engine Model (Eng. Code)	Rated HP @ RPM	Fuel Rate @ Rated HP min <sup>3</sup> /stroke (lbs/hr)	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	PTOX/ Catalytic Converter Part No.
3116 - 1	215 @ 2600	96 (84.3)	1018673	---	---	(1)
3116 - 2	200 @ 2600	92 (80.2)	1018673			
3116 - 3	195 @ 2600	91 (79.5)	1018673			
3116 - 4	185 @ 2600	85 (74.1)	1018673			
3116 - 5	170 @ 2600	79 (68.9)	1018673			

(1) Catalytic Converter Part Nos.

1006968	1030635	1044823	1173161	1261458
1030632	1036060	1044826	1173162	1288616
1030633	1044819	1066503	1173265	
1030634	1044821	1144315	1230221	

ISSUE DATE	08 SEPT 95						
REVISION NUMBER							
REVISION DATE							