

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-109

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</u> Liters (Cubic Inches)		<u>Exhaust Emission Control Systems and Special Features</u>
VCP442DZDARK	7.1	(442)	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:

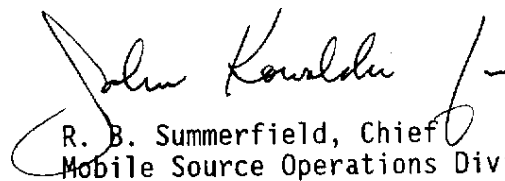
<u>Engine Family</u>	<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
VCP442DZDARK	0.9	1.5	4.7	0.09

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	VCP442DZDARK			
Displacement	7.1	/	Liters	442	/	Cubic Inches	
Maximum Rated Power:	300	HP @	2200	RPM	Engine Configuration:	16	
Ignition: Compression	<u>X</u>	Compression with Glow Plug	_____	Spark	_____		
Fuel Type (s): Dedicated	<u>X</u>	Flex-Fuel	_____	Dual-Fuel	_____	Diesel <u>X</u> 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	<u>X</u>	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.
3126 - 1	300 @ 2200	143 (105.6)	116-7150	120-8916	----	----
3126 - 1	300 @ 2200	143 (105.6)	116-7150	126-6938		
3126 - 1	300 @ 2200	143 (105.6)	116-7150	119-0906		
3126 - 1	300 @ 2200	143 (105.6)	116-7150	126-6941		
3126 - 2	275 @ 2200	129 (95.2)	116-7150	126-6935		
3126 - 2	275 @ 2200	129 (95.2)	116-7150	118-0004		
3126 - 2	275 @ 2200	129 (95.2)	116-7150	126-6931		
3126 - 2	275 @ 2200	129 (95.2)	116-7150	120-8923		
3126 - 3	250 @ 2200	119 (87.7)	116-6706	133-5551		
3126 - 3	250 @ 2200	116 (85.7)	116-7150	112-7637		
3126 - 3	250 @ 2200	116 (85.7)	116-7150	120-5895		
3126 - 4	230 @ 2200	106 (78.4)	116-7150	118-0007		
3126 - 5	210 @ 2200	100 (74.2)	119-3346	119-0909		
3126 - 5	210 @ 2200	94 (76.0)	119-3346	120-5892		
3126 - 6	190 @ 2200	100 (74.3)	119-3346	120-8942		
3126 - 7	175 @ 2400	86 (69.6)	119-3346	117-7637		

ISSUE DATE	09 SEPT 96							
REVISION NO.								
REVISION DATE								