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#### State of California AIR RESOURCES BOARD

### EXECUTIVE ORDER A-13-104

# 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>	Engine	Displacement	Exhaust Emission Control
	<u>Liters</u>	(Cubic Inches)	Systems and Special Features
TCP442DZDAAK	7.1	(442)	Turbocharger Oxidation Catalytic Converter 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>	Carbon <u>Monoxide</u>	Nitrogen <u>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:

Engine		Carbon	Nitrogen	<u>Particulates</u>	
<u>Family Hydrocarbons</u>		<u>Monoxide</u>	<u>Oxides</u>		
TCP442DZDAAK	0.1	0.8	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.). CATERPILLAR, INC.

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  $\mathcal{H}^{\mathcal{H}}_{\mathcal{A}}$  day of June 1996.

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R. B. Sommerfield / Assistant Division Chief Mobile Source Division

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

Manufactures	Caterpillar Inc.		Engine Family	TCP442DZDAAK			
Manufacturer	7			Liters	442	/ Cubi	ic Inches
Displacement	33		HP @	2400	RPM	Engine Configu	ration: <u>16</u>
Ignition: Compression	X		Compr	ession with Glow	Plug	Spark	
Fuel Type (s): Dedicated	X	Flex-Fuel	_	Dual-Fuel	Diesel X	M100	M85
	_ <u></u>	CNG	LNG	LPG	Other (specify)		
Diesel Cert Fuel: 13CCR 22	282	40 CFF	86.131	3-90	4	0 CFR 86.1313-94	X
Primary Intended Service (		LHD		MHD X	HHD	Urban Bus	<u> </u>
Exhaust ECS (incl. MFI,		CAC,		IC, OC	. <u> </u>		
<b>`</b>		(Use a	bbreviations per S	SAE J1930 SEP9	1)		

Engine Model (Eng. Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm <sup>3</sup> /stroke (lbs/hr)	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
3126 - 1	330 @ 2400	149 (119.9)	116-7150	132-4428		104-4821
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ISSUE DATE	02 MAY 96
REVISION NO.	
REVISION DATE	