

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-86

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-45-3;

IT IS ORDERED AND RESOLVED: That the following 1995 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>
SCP893EZDARK	14.6 (893)	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>
SCP893EZDARK	0.2	1.2	4.6	0.08

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.).

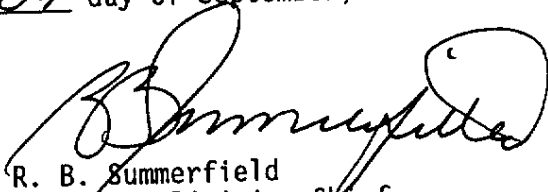
CATERPILLAR, INC.

EXECUTIVE ORDER A-13-86
(Page 2 of 2)

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 29th day of September, 1994.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1995 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer Caterpillar Inc. Engine Family SCP893EZDARK
 Displacement 14.6 / Liters 893 / Cubic Inches
 Maximum Rated Power: 500 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 _____ HHD X 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.
D	475 @ 1800	265 (160.4)	1189030	1164271 1164297	---	---
D	475 @ 1800	261 (157.9)	1189030	1164276 1164305	---	---
E	455 @ 1800	251 (151.7)	1189030	1164301	---	---
E	455 @ 1800	247 (149.3)	1189030	1164309	---	---
F	410 @ 1800	233 (140.8)	1189027	1164317 1164325	---	---
F	410 @ 1800	229 (138.4)	1189027	1164313 1164321	---	---
G	500 @ 1800	269 (162.8)	1189035 1171148	1127028 1127032	---	---
H	310 @ 1800 330 @ 1800	174 (105.2) 182 (110.4)	1188700	1164352 1164343 1164356 1164347	---	---

ISSUE DATE	22 JUL 94						
REVISION NUMBER							
REVISION DATE							