

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-75

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 Caterpillar, Inc. 1994 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 8,500 pounds:

Fuel Type: Diesel

<u>Engine Family</u>	<u>Liters (Cubic Inches)</u>		<u>Exhaust Emission Control Systems and Special Features</u>
RCP893EZDARA	14.6	(893)	Turbocharger Charge Air Cooler Engine Control Module

Engine models and codes are listed on attachments.

The following are the certification 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 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>
RCP893EZDARA	0.1	1.6	4.9	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.).


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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 25th day of October, 1993.


R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1994 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

HEAVY-DUTY DIESEL ENGINES

Manufacturer Caterpillar Inc. Engine Family RCP893EZDARA

Liter (CID) 14.6 (893) Fuel Type #2 DIESEL Engine Config. I6

Exhaust ECS & Special Features (ECM/PCM, PTOX, IFI, etc.) TC, CAC, ECM

(Use abbreviations per SAE J1930 MAY 91) . . .

Engine Model (Eng. Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm ³ /stroke (lbs/hr)	Fuel Pump & Injector P/N	ECM/PCM P/N	Part. Trap/ Catalyst P/N
A	355 @ 1800	191 (115.9)	1095038	1103342	---
A	355 @ 1800	191 (115.9)	1095038	1103336	---
B	375 @ 1800	204 (123.5)	1095038	1096723	---
B	375 @ 1800	204 (123.5)	1095038	1096727	---
C	435 @ 1800	239 (145.0)	1095021	1096627	---
C	435 @ 1800	236 (142.7)	1095021	1096623	---
C	435 @ 1800	239 (145.0)	1095021	1096635	---
C	435 @ 1800	236 (142.7)	1095021	1096631	---
D	475 @ 1800	270 (163.6)	1095021	1108963	---
D	475 @ 1800	266 (161.1)	1095021	1096737	---
D	475 @ 1800	270 (163.6)	1095021	1096731	---
D	475 @ 1800	266 (161.1)	1095021	1096731	---

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(Use abbreviations per SAE J1930 MAY 91)

Engine Model (Eng. Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm ³ /stroke (lbs/hr)	Fuel Pump & Injector P/N	ECM/PCM P/N	Part. Catalyst P/N
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	---
J	355 @ 1800	193 (117.1)	1189027	1224882 1223313 1223310	---
K	435 @ 1800	242 (146.3)	1189030	1223611 1223619	---
K	435 @ 1800	238 (144.0)	1189030	1223605 1223615	---

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Liter (CID) 14.6 (893) Fuel Type #2 DIESEL Engine Config. 16

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(Use abbreviations per SAE J1930 MAY 91)

Engine Model (Eng. Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm ³ /stroke (lbs/hr)	Fuel Pump & Injector P/N	ECM/PCM P/N	Part. Catalyst P/N
A	355 @ 1800	193 (117.1)	1189027	1164227 1164223 1164280 1164284	---
B	375 @ 1800	206 (124.8)	1189027	1164289 1164293 1164215 1164250	---
C	435 @ 1800	242 (146.3)	1189030	1164266 1164258 1164219 1164242	---
C	435 @ 1800	238(144.0)	1189030	1164210 1164238 1164231 1164246 1164254 1164262 1178140	---

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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	---
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E	455 @ 1800	247 (149.3)	1189030	1164309	---
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