

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-60

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. 1992 model-year diesel engine family is 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>
NCT0638FPCX	10.5 638	Smoke Puff Limiter Turbocharger Charge Air Cooler

Engine models and codes are listed on attachments.

The certification emission standards for this engine family in grams per brake-horsepower-hour are as follows:

<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
1.3	15.5	5.0	0.25

The certification emission values for this engine family in grams per brake-horsepower-hour are as follows:

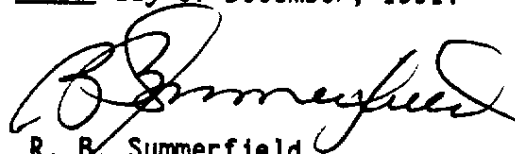
<u>Engine Family</u>	<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
NCT0638FPCX	0.6	1.3	4.2	0.24

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 12th day of December, 1991.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

12-9-92

1992 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

HEAVY-DUTY DIESEL ENGINES

Manufacturer Caterpillar Inc. Engine Family NCT0638FPCXLiter (CID) 10.5 (638) Engine Type I6Emission Control Sys. and (Special Features) EM, SPL (TC,CAC,DI)

(Use abbreviations per SAE J1930 JUN 88)

Engine Model (Eng. Code)	Fuel Pump* MFR. P/N	Injector MFR. P/N	Rated HP @ RPM	Fuel Rate @ Gated HP mm ³ /stroke	Part. Trap/ Catalyst MFR. P/N
3306C					
(A)	4P9839	7W7045	300 @ 2000	169	---
(A)	4P9839	7W7045	285 @ 2000	158	---
(B)	4P9839	7W7045	300 @ 1800	184	---
(B)	4P9839	7W7045	285 @ 1800	174	---
(C)	4P9839	7W7045	300 @ 2000	169	---
(C)	4P9839	7W7045	285 @ 2000	158	---

Revisions:
042090

*Basic Fuel Pump 1032957

(Reference Page No. 16.04-0638FPC-1).

Revision No. 1. 15 SEP 92

No. 2. 24 NOV 92

h:\DM4\92EPA\ARB\ARBSUP18.doc

9-23-92

1992 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

HEAVY-DUTY DIESEL ENGINES

Manufacturer Caterpillar Inc. Engine Family NCT0638FPCXLiter (CID) 10.5 (638) Engine Type 16Emission Control Sys. and (Special Features) EM, SPL (TC,CAC,DI)

(Use abbreviations per SAE J1930 JUN 88)

Engine Model (Eng. Code)	Fuel Pump* MFR. P/N	Injector MFR. P/N	Rated HP @ RPM	Fuel Rate @ Gated HP mm ³ /stroke	Part. Trap/ Catalyst MFR. P/N
3306C (A)	4P9839	7W7045	300 @ 2000	169	---
(A)	4P9839	7W7045	285 @ 2000	158	---
(B)	4P9839	7W7045	300 @ 1800	184	---
(B)	4P9839	7W7045	285 @ 1800	174	---

Revisions:
042090

*Basic Fuel Pump 1032957

(Reference Page No. 16.04-0638FPC-1).

Revision No. 1. 15 SEP 92

h:\DW4\92EPA\ARB\ARBSUP18.doc

1992 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

HEAVY-DUTY DIESEL ENGINES

Manufacturer Caterpillar Inc. Engine Family NCT0638FPCX
 Liter (CID) 10.5 (638) Engine Type 16
 Emission Control Sys. and (Special Features) SPL (TC,CAC)

(Use abbreviations per SAE J1930 JUN 88)

Engine Model (Eng. Code)	Fuel Pump* MFR. P/N	Injector MFR. P/N	Rated HP @ RPM	Fuel Rate @ Rated HP mm ³ /stroke	Part. Trap/ Catalyst MFR. P/N
3306C (A)	4P9839	7W7045	300 @ 2000	169	---
(A)	4P9839	7W7045	285 @ 2000	153	---
(B)	4P9839	7W7045	300 @ 1800	184	---
(B)	4P9839	7W7045	285 @ 1800	174	---

Revisions:
042090

*Basic Fuel Pump 4P9827

(Reference Page No. 16.04-0638FPC-1).

Revision No.

h:\DM4\92EPA\ARB\ARBSUP18.doc