State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-69
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. 1993 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

Engine Family	Displacement Liters	(Cubic Inches)	Exhaust Emission Control Systems and Special Features
PCT0893FPB7	14.6	(893)	Turbocharger Smoke Puff Limiter Charge Air Cooler

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:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Particulates
1.3	15.5	5.0	0.25

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

Engine Family	Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Particulates
PCT0893FPB7	0.3	1.4	5.0	0.25

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 28th day of October, 1992.

R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1993 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

HEAVY-DUTY DIESEL ENGINES

.73

Manufacturer Caterpillar Inc. Engine Family PCT0893FPB7

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

Exhaust 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
3406 ATAAC					
(A)	RESERVED				
(B)	RESERVED				
(C)	RESERVED				
(D)	RESERVED				
(E)	1022896 (1)	1007550	425 @ 2000	213	---
			415 @ 1800	222	---
(F)	1022896 (1)	1007550	425 @ 2000	213	---
			425 @ 1800	227	---
(G)	4P1387 (1)	7W7040	310 @ 1800	175	---
	4P1387 (1)	7W7040	300 @ 1800	170	---
(H)	4P1371 (1)	7W7040	330 @ 1600	201	---
	4P2044 (1)	7W7040	285 @ 1600	173	---
(I)	RESERVED				
(J)	613060 (1)	7W7040	350 @ 1950	181	---
(K)	4P1387 (1)	7W7040	350 @ 1800	196	---
	4P1387 (1)				
	4P1387 (1)				
(L)	4P1387 (1)	7W7040	330 @ 1800	181	---
	4P1387 (1)				
	4P1387 (1)				

(1) Basic Fuel Pump 4P7681 (Reference Page No. 16.04-0893FPB-1 through 15).

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1993 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

HEAVY-DUTY DIESEL ENGINES

.73

Manufacturer Caterpillar Inc. Engine Family PCT0893FPB7

Liter (CID) 14.6 (893) Fuel Type #2 Diesel (.25% Sulfur) Engine Config. I6

Exhaust 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
3406 ATAAC					
(M)	4P1391 (1)	7W7042	400 @ 2000	197	---
	4P1391 (1)	7W7042	400 @ 1800	216	---
(N)	4P1398 (1)	7W7041	425 @ 2000	210	---
	4P1402 (1)	7W7041	415 @ 1800	224	---
(O)	4P1390 (1)	7W7041	425 @ 2000	213	---
	4P1397 (1)	7W7041	425 @ 1800	231	---

(1) Basic Fuel Pump 4P7681 (Reference Page No. 16.04-0893FPB-1 through 15).

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HEAVY-DUTY DIESEL ENGINES

Manufacturer Caterpillar Inc. Engine Family PCT0893FPB7

Liter (CID) 14.6 (893) Fuel Type #2 Diesel (.25% Sulfur) Engine Config. 16

Exhaust Emission Control Sys. and (Special Features) EM, SPL (DI,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
3406 ATAAC					
(A)	RESERVED				
(B)	4P1387(1)	1007551	350 @ 1800	189	---
			330 @ 1800	176	---
			330 @ 1600	201	---
(C)	RESERVED				
(D)	RESERVED				
(E)	1022896 (1)	1007550	425 @ 2000	213	---
			415 @ 1800	222	---
(F)	1022896 (1)	1007550	425 @ 2000	213	---
			425 @ 1800	227	---
(G)	4P1387 (1)	7W7040	310 @ 1800	175	---
	4P1387 (1)	7W7040	300 @ 1800	170	---
(H)	4P1371 (1)	7W7040	330 @ 1600	201	---
	4P2044 (1)	7W7040	285 @ 1600	173	---
(I)	RESERVED				
(J)	613060 (1)	7W7040	350 @ 1950	181	---
(K)	4P1387 (1)	7W7040	350 @ 1800	196	---
	4P1387 (1)				
	4P1387 (1)				
(L)	4P1387 (1)	7W7040	330 @ 1800	181	---
	4P1387 (1)				
	4P1387 (1)				

(1) Basic Fuel Pump 4P7681 (Reference Page No. 16.04-0893FPB-1 through 15).

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HEAVY-DUTY DIESEL ENGINES

Manufacturer Caterpillar Inc. Engine Family PCT0893FPB7

Liter (CID) 14.6 (893) Fuel Type #2 Diesel (.25% Sulfur) Engine Config. I6

Exhaust Emission Control Sys. and (Special Features) EM, SPL (DI,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
3406 ATAAC					
(A)	RESERVED				
(B)	4P1387 (1)	1007551	350 @ 1800	189	---
			330 @ 1800	176	---
			330 @ 1600	201	---
(C)	613060 (1)	1007551	350 @ 1950	179	---
(D)	RESERVED				
(E)	1022896 (1)	1007550	425 @ 2000	213	---
			415 @ 1800	222	---
(F)	1022896 (1)	1007550	425 @ 2000	213	---
			425 @ 1800	227	---
(G)	4P1387 (1)	7W7040	310 @ 1800	175	---
	4P1387 (1)	7W7040	300 @ 1800	170	---
(H)	4P1371 (1)	7W7040	330 @ 1600	201	---
	4P2044 (1)	7W7040	285 @ 1600	173	---
(I)	RESERVED				
(J)	613060 (1)	7W7040	350 @ 1950	181	---
(K)	4P1387 (1)	7W7040	350 @ 1800	196	---
	4P1387 (1)				
	4P1387 (1)				
(L)	4P1387 (1)	7W7040	330 @ 1800	181	---
	4P1387 (1)				
	4P1387 (1)				

(1) Basic Fuel Pump 4P7681 (Reference Page No. 16.04-0893FPB-1 through 15).

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HEAVY-DUTY DIESEL ENGINES

Manufacturer Caterpillar Inc. Engine Family PCT0893FPB7

Liter (CID) 14.6 (893) Fuel Type #2 Diesel (.25% Sulfur) Engine Config. I6

Exhaust Emission Control Sys. and (Special Features) EM, SPL (DI,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
3406 ATAAC					
(L)	4P1387 (1)	7W7040	330 @ 1800	181	---
	4P1387 (1)				
	4P1387 (1)				
(M)	4P1391 (1)	7W7042	400 @ 2000	197	---
	4P1391 (1)	7W7042	400 @ 1800	216	---
(N)	4P1398 (1)	7W7041	425 @ 2000	210	---
	4P1402 (1)	7W7041	415 @ 1800	224	---
(O)	4P1390 (1)	7W7041	425 @ 2000	213	---
	4P1397 (1)	7W7041	425 @ 1800	231	---

(1) Basic Fuel Pump 4P7681 (Reference Page No. 16.04-0893FPB-1 through 03).

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4-19-93

E.O. # A-13-69

1993 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINES

Manufacturer Caterpillar Inc. Engine Family PCT0893FPB7

Liter (CID) 14.6 (893) Fuel Type #2 Diesel (.25% Sulfur) Engine Config. 16

Exhaust Emission Control Sys. and (Special Features) EM, SPL (DI,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
3406 ATAAC (A)	4P1387(1)	1007558	310 @ 1800	173	---
	4P2044		300 @ 1800	168	---
			285 @ 1600	177	---
(B)	4P1387 (1)	1007551	350 @ 1800	189	---
	613058		330 @ 1800	176	---
			330 @ 1600	201	---
(C)	613060 (1)	1007551	350 @ 1950	179	---
(D)	1022896 (1)	1007557	400 @ 2000	197	---
	613060		400 @ 1800	217	---
(E)	1022896 (1)	1007556	425 @ 2000	213	---
	613060		415 @ 1800	222	---
(F)	1022896 (1)	1007556	425 @ 2000	213	---
	613060		425 @ 1800	227	---
(G)	4P1387 (1)	7W7040	310 @ 1800	175	---
	4P1387 (1)	7W7040	300 @ 1800	170	---
(H)	4P1371 (1)	7W7040	330 @ 1600	201	---
	4P2044 (1)	7W7040	285 @ 1600	173	---
(I)	RESERVED				
(J)	613060 (1)	7W7040	350 @ 1950	181	---
(K)	4P1387 (1)	7W7040	350 @ 1800	196	---
	4P1387 (1)				
	4P1387 (1)				

(1) Basic Fuel Pump 4P7681 (Reference Page No. 16.04-0893FPB-1 through 04).

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HEAVY-DUTY DIESEL ENGINES

Manufacturer Caterpillar Inc. Engine Family PCT0893FPB7

Liter (CID) 14.6 (893) Fuel Type #2 Diesel (.25% Sulfur) Engine Config. I6

Exhaust Emission Control Sys. and (Special Features) EM, SPL (DI,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
3406 ATAAC					
(L)	4P1387 (1)	7W7040	330 @ 1800	181	---
	4P1387 (1)				
	4P1387 (1)				
(M)	4P1391 (1)	7W7042	400 @ 2000	197	---
	4P1391 (1)	7W7042	400 @ 1800	216	---
(N)	4P1398 (1)	7W7041	425 @ 2000	210	---
	4P1402 (1)	7W7041	415 @ 1800	224	---
(O)	RESERVED				
(P)	4P1390 (1)	7W7041	425 @ 2000	213	---
	4P1397 (1)	7W7041	425 @ 1800	231	---
(Q)	RESERVED				
(R)	6I3060	1007558	350 @ 1950	182	---
(S)	4P1387 (1)	1007558	350 @ 1800	201	---
	6I3058 (1)		330 @ 1800	185	---
			330 @ 1800	199	---

(1) Basic Fuel Pump 4P7681 (Reference Page no. 16.04-0893FPB-1 through 04).

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1993 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINES

Manufacturer Caterpillar Inc. Engine Family PCT0893FPB7

Liter (CID) 14.6 (893) Fuel Type #2 Diesel (.25% Sulfur) Engine Config. 16

Exhaust Emission Control Sys. and (Special Features) EM, SPL (DI,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
3406 ATAAC					
(A)	4P1387(1)	1007558	310 @ 1800	178	---
	4P2044		300 @ 1800	171	---
			285 @ 1600	183	---
(B)	4P1387 (1)	1007551	350 @ 1800	189	---
	613058		330 @ 1800	176	---
			330 @ 1600	201	---
(C)	613060 (1)	1007551	350 @ 1950	179	---
(D)	1022896 (1)	1007557	400 @ 2000	203	---
	613060		400 @ 1800	220	---
(E)	1022896 (1)	1007556	425 @ 2000	216	---
	613060		415 @ 1800	225	---
(F)	1022896 (1)	1007556	425 @ 2000	214	---
	613060		425 @ 1900	223	---
			425 @ 1800	233	---
(G)	4P1387 (1)	7W7040	310 @ 1800	175	---
	4P1387 (1)	7W7040	300 @ 1800	170	---
(H)	4P1371 (1)	7W7040	330 @ 1600	201	---
	4P2044 (1)	7W7040	285 @ 1600	173	---
(I)	RESERVED				
(J)	613060 (1)	7W7040	350 @ 1950	181	---
(K)	4P1387 (1)	7W7040	350 @ 1800	196	---
	4P1387 (1)				
	4P1387 (1)				

(1) Basic Fuel Pump 4P7681 (Reference Page No. 16.04-0893FPB-1 through 04).

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1993 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINES

Manufacturer Caterpillar Inc. Engine Family PCT0893FPB7

Liter (CID) 14.6 (893) Fuel Type #2 Diesel (.25% Sulfur) Engine Config. I6

Exhaust Emission Control Sys. and (Special Features) EM, SPL (DI,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
3406 ATAAC					
(L)	4P1387 (1)	7W7040	330 @ 1800	181	---
	4P1387 (1)				
	4P1387 (1)				
(M)	4P1391 (1)	7W7042	400 @ 2000	197	---
	4P1391 (1)	7W7042	400 @ 1800	216	---
(N)	4P1398 (1)	7W7041	425 @ 2000	210	---
	4P1402 (1)	7W7041	415 @ 1800	224	---
(O)	RESERVED				
(P)	4P1390 (1)	7W7041	425 @ 2000	213	---
	4P1397 (1)	7W7041	425 @ 1800	231	---
(Q)	RESERVED				
(R)	6I3060	1007558	350 @ 1950	187	---
(S)	4P1387 (1)	1007558	350 @ 1800	201	---
	6I3058 (1)		330 @ 1800	190	---
			330 @ 1600	203	---

(1) Basic Fuel Pump 4P7681 (Reference Page No. 16.04-0893FPB-1 through 04).

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1993 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINES

Manufacturer Caterpillar Inc. Engine Family PCT0893FPB7

Liter (CID) 14.6 (893) Fuel Type #2 Diesel (.25% Sulfur) Engine Config. I6

Exhaust Emission Control Sys. and (Special Features) EM, SPL (DI,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
3406 ATAAC					
(A)	4P1387(1)	1007558	310 @ 1800	178	---
	4P2044		300 @ 1800	171	---
			285 @ 1600	183	---
(B)	4P1387 (1)	1007551	350 @ 1800	189	---
	613058		330 @ 1800	176	---
			330 @ 1600	201	---
(C)	613060 (1)	1007551	350 @ 1950	179	---
(D)	1022896 (1)	1007557	400 @ 2000	203	---
	613060		400 @ 1800	220	---
(E)	1022896 (1)	1007556	425 @ 2000	216	---
	613060		415 @ 1800	225	---
(F)	1022896 (1)	1007556	425 @ 2000	214	---
	613060		425 @ 1800	233	---
(G)	4P1387 (1)	7W7040	310 @ 1800	175	---
	4P1387 (1)	7W7040	300 @ 1800	170	---
(H)	4P1371 (1)	7W7040	330 @ 1600	201	---
	4P2044 (1)	7W7040	285 @ 1600	173	---
(I)	RESERVED				
(J)	613060 (1)	7W7040	350 @ 1950	181	---
(K)	4P1387 (1)	7W7040	350 @ 1800	196	---
	4P1387 (1)				
	4P1387 (1)				

(1) Basic Fuel Pump 4P7681 (Reference Page No. 16.04-0893FPB-1 through 04).

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1993 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINES

Manufacturer Caterpillar Inc. Engine Family PCT0893FPB7

Liter (CID) 14.6 (893) Fuel Type #2 Diesel (.25% Sulfur) Engine Config. I6

Exhaust Emission Control Sys. and (Special Features) EM, SPL (DI,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
3406 ATAAC					
(L)	4P1387 (1)	7W7040	330 @ 1800	181	---
	4P1387 (1)				
	4P1387 (1)				
(M)	4P1391 (1)	7W7042	400 @ 2000	197	---
	4P1391 (1)	7W7042	400 @ 1800	216	---
(N)	4P1398 (1)	7W7041	425 @ 2000	210	---
	4P1402 (1)	7W7041	415 @ 1800	224	---
(O)	RESERVED				
(P)	4P1390 (1)	7W7041	425 @ 2000	213	---
	4P1397 (1)	7W7041	425 @ 1800	231	---
(Q)	RESERVED				
(R)	613060 (1)	1007558	350 @ 1950	187	---
(S)	4P1387 (1)	1007558	350 @ 1800	201	---
	613058 (1)		330 @ 1800	190	---
			330 @ 1600	203	---
(T)	1022896 (1)	1007557	475 @ 1900	242	---
	613060 (1)		475 @ 1900	233	---
(U)	1022896 (1)	1007556	475 @ 1900	225	---
	613060 (1)				

(1) Basic Fuel Pump 1077533 (Reference Page No. 16.04-0893FPB-1 through 04).

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