



Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 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-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2004	4CPXL07.2HSL	7.2	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler and Engine Control Module			Dozer and Industrial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130≤KW<225	Tier 2	STD	N/A	N/A	6.6	3.5	0.20	20	15	50
225≤KW<450	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	20	15	50
		CERT	--	--	5.1	1.0	0.10	10	1	18

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 15TH day of December 2003.

Allen Lyons, Chief
Mobile Source Operations Division

Engine Model Summary Form

WR-001-0246

Manufacturer: CATERPILLAR INC.
 Engine category: Nonroad Over 50 Hp
 EPA Engine Family: 4CPXL07.2HSL
 Mfr Family Name: NA
 Process Code: New Submission

1. Engine Code	2. Engine Model	3. BHP@RPM (SAE Gross)	4. Fuel Rate: mm/stroke @ peak HP (for diesel only)	5. Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6. Torque @ RPM (SEA Gross)	7. Fuel Rate: mm/stroke@peak torque	8. Fuel Rate: (lbs/hr)@peak torque	9. Emission Control Device Per SAE J1930
Note: Peak HP and Peak Torque fuel rates are nominal values. Due to production engine avgs. these fuel rates may change.								
1	3126	260 @ 2100	131	92.6	888 @ 1350	178	80.6	EM, DI, TC, ECM, CAP
2	3126	200 @ 2100	103	72.5	700 @ 1350	137	62.3	EM, DI, TC, ECM,
3	3126	225 @ 2500	101	84.6	644 @ 1500	128	64.4	EM, DI, TC, ECM,
4	3126	250 @ 2100	128	90.2	860 @ 1350	169	76.9	EM, DI, TC, ECM,
5	3126	250 @ 2100	109	91.8	716 @ 1500	141	71.0	EM, DI, TC, ECM,
6	3126	275 @ 2400	123	99.5	825 @ 1500	160	80.9	EM, DI, TC, ECM,
7	3126	175 @ 2500	81	67.9	501 @ 1500	97	49.1	EM, DI, TC, ECM,
8	3126	200 @ 2500	90	75.8	573 @ 1500	110	55.7	EM, DI, TC, ECM,
9	3126	187 @ 1800	115	69.4	701 @ 1400	138	65.2	EM, DI, TC, ECM,
12	3126	250 @ 1800	146	88.4	860 @ 1350	169	76.9	EM, DI, TC, ECM,
13	3126	210 @ 2000	116	77.7	726 @ 1400	142	67.1	EM, DI, TC, ECM,
14	3126	183 @ 2200	100	74.0	728 @ 1400	144	68.1	EM, DI, TC, ECM,
15	3126	204 @ 2200	110	67.3	728 @ 1400	143	67.3	EM, DI, TC, ECM,
16	3126	183 @ 2200	103	68.1	728 @ 1400	144	68.1	EM, DI, TC, ECM,
17	3126	187 @ 1800	115	69.4	701 @ 1400	138	65.2	EM, DI, TC, ECM,
18	3126	275 @ 2100	136	96.1	825 @ 1500	160	80.9	EM, DI, TC, ECM,
20	3126	208 @ 2100	103	72.8	715 @ 1400	140	66.1	EM, DI, TC, ECM,
21	3126	236 @ 2100	117	82.5	810 @ 1400	158	74.6	EM, DI, TC, ECM,
22	3126	256 @ 2100	127	89.7	875 @ 1400	172	81.1	EM, DI, TC, ECM,
24	3126	300 @ 2400	137	110.0	887 @ 1500	172	87.0	EM, DI, TC, ECM,
25-Cert Engine	3126	309 @ 2400	140	113.0	913 @ 1500	177	89.0	EM, DI, TC, ECM,
26	3126	200 @ 2300	94	73.0	573 @ 1500	109	55.0	EM, DI, TC, ECM,
27	3126	225 @ 2200	106	78.8	644 @ 1500	128	64.0	EM, DI, TC, ECM,
29	3126	204 @ 2200	110	81.7	728 @ 1400	143	67.0	EM, DI, TC, ECM,
30	3126	290 @ 2100	143	101.0	856 @ 1575	167	88.0	EM, DI, TC, ECM,
31	3126	300 @ 2200	145	108.0	887 @ 1500	172	87.0	EM, DI, TC, ECM,
33	3126	250 @ 1800	146	88.4	860 @ 1350	169	76.8	EM, DI, TC, ECM,
34	3126	225 @ 2500	101	84.6	644 @ 1500	128	64.3	FM DI TC FCM

Engine Model Summary Form

Manufacturer: CATERPILLAR INC.
Engine category: Nonroad Over 50 Hp
EPA Engine Family: 4CPXL07.2HSL
Mr Family Name: NA
Process Code: New Submission

1. Engine Code	2. Engine Model	3. BHP @ RPM (SAE Gross)	4. Fuel Rate: mm/stroke @ peak HP (for diesel only)	5. Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6. Torque @ RPM (SEA Gross)	7. Fuel Rate: mm/stroke @ peak torque	8. Fuel Rate: (lbs/hr) @ peak torque	9. Emission Control Device Per SAE J1930
Note: Peak HP and Peak Torque fuel rates are nominal values. Due to product- ion engine avgs. these fuel rates may change.								
1	3126	260 @ 2100	131	92.6	888 @ 1350	178	80.6	EM, DI, TC, ECM,
2	3126	200 @ 2100	103	72.5	700 @ 1350	137	62.3	EM, DI, TC, ECM,
3	3126	225 @ 2500	101	84.6	644 @ 1500	128	64.4	EM, DI, TC, ECM,
4	3126	250 @ 2100	128	90.2	860 @ 1350	169	76.9	EM, DI, TC, ECM,
5	3126	250 @ 2100	109	91.8	716 @ 1500	141	71.0	EM, DI, TC, ECM,
6	3126	275 @ 2400	123	99.5	825 @ 1500	160	80.9	EM, DI, TC, ECM,
7	3126	175 @ 2500	81	67.9	501 @ 1500	97	49.1	EM, DI, TC, ECM,
8	3126	200 @ 2500	90	75.8	573 @ 1500	110	55.7	EM, DI, TC, ECM,
9	3126	187 @ 1800	115	69.4	701 @ 1400	138	65.2	EM, DI, TC, ECM,
-	-	-	-	-	-	-	-	-
12	3126	250 @ 1800	146	88.4	860 @ 1350	169	76.9	EM, DI, TC, ECM,
13	3126	210 @ 2000	116	77.7	726 @ 1400	142	67.1	EM, DI, TC, ECM,
14	3126	183 @ 2200	100	74.0	728 @ 1400	144	68.1	EM, DI, TC, ECM,
15	3126	204 @ 2200	110	67.3	728 @ 1400	143	67.3	EM, DI, TC, ECM,
16	3126	183 @ 2200	103	68.1	728 @ 1400	144	68.1	EM, DI, TC, ECM,
17	3126	187 @ 1800	115	69.4	701 @ 1400	138	65.2	EM, DI, TC, ECM,
18	3126	275 @ 2100	136	96.1	825 @ 1500	160	80.9	EM, DI, TC, ECM,
-	-	-	-	-	-	-	-	-
20	3126	208 @ 2100	103	72.8	715 @ 1400	140	66.1	EM, DI, TC, ECM,
21	3126	236 @ 2100	117	82.5	810 @ 1400	158	74.6	EM, DI, TC, ECM,
22	3126	256 @ 2100	127	89.7	875 @ 1400	172	81.1	EM, DI, TC, ECM,
24	3126	300 @ 2400	137	110.0	887 @ 1500	172	87.0	EM, DI, TC, ECM,
25-Cert Engine	3126	309 @ 2400	140	113.0	913 @ 1500	177	89.0	EM, DI, TC, ECM,
26	3126	200 @ 2300	94	73.0	573 @ 1500	109	55.0	EM, DI, TC, ECM,
27	3126	225 @ 2200	106	78.8	644 @ 1500	128	64.0	EM, DI, TC, ECM,
29	3126	204 @ 2200	110	81.7	728 @ 1400	143	67.0	EM, DI, TC, ECM,
30	3126	290 @ 2100	143	101.0	856 @ 1575	167	88.0	EM, DI, TC, ECM,
31	3126	300 @ 2200	145	108.0	887 @ 1500	172	87.0	EM, DI, TC, ECM,
33	3126	250 @ 1800	146	88.4	860 @ 1350	169	76.8	EM, DI, TC, ECM,
34	3126	225 @ 2500	101	84.6	644 @ 1500	128	64.4	EM, DI, TC, ECM,

35	3126	225 @ 2200	109	80.4	645 @ 1500	128	64.3	EM, DI, TC, ECM,
36	3126	187 @ 1800	115	69.4	701 @ 1400	138	65.2	EM, DI, TC, ECM,
37	3126	188 @ 1800	107	64.5	656 @ 1400	130	61.2	EM, DI, TC, ECM,
38	3126	202 @ 1800	115	69.4	701 @ 1400	138	65.2	EM, DI, TC, ECM,
39	3126	180 @ 1800	104	63.1	624 @ 1400	122	57.5	EM, DI, TC, ECM,
40	3126	188 @ 1800	107	64.5	655 @ 1400	130	61.2	EM, DI, TC, ECM,
41	3126	209 @ 1800	125	75.3	802 @ 1200	157	63.3	EM, DI, TC, ECM,
42	3126	177 @ 1500	118	59.6	774 @ 1100	139	51.7	EM, DI, TC, ECM,
43	3126	180 @ 1800	104	63.1	624 @ 1400	122	57.5	EM, DI, TC, ECM,
44	3126	300 @ 2100	149	105.2	887 @ 1500	172	87.0	EM, DI, TC, ECM,
45	3126	225 @ 2500	103	86.9	679 @ 1500	135	68.0	EM, DI, TC, ECM,
46	3126	250 @ 2500	113	95.2	760 @ 1500	149	75.0	EM, DI, TC, ECM,
47	3126	175 @ 2500	81	68.0	501 @ 1500	97	49.2	EM, DI, TC, ECM,
48	3126	200 @ 2500	90	75.8	573 @ 1500	110	55.9	EM, DI, TC, ECM,
49	3126	200 @ 2100	103	72.5	700 @ 1350	138	62.6	EM, DI, TC, ECM,
50	3126	225 @ 2500	101	84.6	644 @ 1500	128	64.4	EM, DI, TC, ECM,

Engine Model Summary Form

Manufacturer: **CATERPILLAR INC.**

Engine category: **Nonroad Over 50 Hp**

EPA Engine Family: **4CPXL07.2HSL**

Mir Family Name:

Process Code: **Running Change - 1**

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
51	3126	250@1800	146	88.4	860@1350	169	76.9	EM,DI,TC,ECM,CA
52	3126	275@2500	123	103.5	830@1500	164	82.6	EM,DI,TC,ECM,CA