



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-45-9;

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)
2002	2CPXL07.2MRB	7.2	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler and Smoke Puff Limiter			Loader 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
75≤KW <130	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50
130≤KW <225	Tier 1	STD	1.3	9.2	N/A	11.4	0.54	20	15	50
		CERT	0.2	8.3	--	1.3	0.29	14	3	36

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 10th day of December 2001.

R. B. Summerfield, Chief
Mobile Source Operations Division

U-R-001-0183

Manufacturer: CATERPILLAR INC.
 Engine category: Nonroad Over 50 Hp
 EPA Engine Family: 2CPXL07.2MRB
 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 product- ion engine avgs. these fuel rates may change.								
1 - Cert Engine	3126	255 @ 2200	134	99.3	742 @ 1450	150	73.0	EM, DI, TC, SPL,
2	3126	230 @ 2600	103	89.9	575 @ 1950	114	75.0	EM, DI, TC, SPL,
3	3126	250 @ 2500	119	100.3	683 @ 1650	132	73.1	EM, DI, TC, SPL,
4	3126	260 @ 2400	128	103.4	740 @ 1450	148	72.2	EM, DI, TC, SPL,
5	3126	255 @ 2400	125	100.9	725 @ 1450	145	70.5	EM, DI, TC, SPL,
6	3126	240 @ 2400	116	93.9	683 @ 1450	135	65.7	EM, DI, TC, SPL,
7	3126	230 @ 2400	111	90.0	654 @ 1450	129	62.7	EM, DI, TC, SPL,
8	3126	220 @ 2400	106	85.7	626 @ 1400	123	57.7	EM, DI, TC, SPL,
9	3126	260 @ 2600	122	106.5	683 @ 1650	139	77.3	EM, DI, TC, SPL,
10	3126	250 @ 2200	131	97.1	729 @ 1450	146	71.4	EM, DI, TC, SPL,
11	3126	240 @ 2200	125	92.7	700 @ 1450	139	68.0	EM, DI, TC, SPL,
12	3126	230 @ 2200	119	88.1	670 @ 1450	133	64.8	EM, DI, TC, SPL,
13	3126	215 @ 2200	111	81.9	625 @ 1400	123	57.8	EM, DI, TC, SPL,
14	3126	195 @ 2100	103	73.1	576 @ 1450	114	55.7	EM, DI, TC, SPL,
15	3126	230 @ 2200	119	88.1	670 @ 1450	133	64.8	EM, DI, TC, SPL,
16	3126	225 @ 2200	113	83.7	724 @ 1400	150	70.5	EM, DI, TC, SPL,
17	3126	221 @ 2200	110	81.7	710 @ 1400	135	63.8	EM, DI, TC, SPL,
18	3126	221 @ 2200	110	81.7	710 @ 1400	135	63.8	EM, DI, TC, SPL,
19	3126	225 @ 2200	113	83.7	724 @ 1400	135	70.5	EM, DI, TC, SPL,
20	3126	221 @ 2200	110	81.7	710 @ 1400	135	63.8	EM, DI, TC, SPL,
21	3126	221 @ 2200	110	81.7	710 @ 1400	135	63.8	EM, DI, TC, SPL,
22	3126	217 @ 2200	109	80.7	696 @ 1400	144	67.9	EM, DI, TC, SPL,
23	3126	204 @ 2200	104	77.0	721 @ 1400	149	70.1	EM, DI, TC, SPL,
24	3126	204 @ 2200	102	75.3	653 @ 1400	126	59.1	EM, DI, TC, SPL,
25	3126	201 @ 2200	101	74.6	643 @ 1400	123	58.1	EM, DI, TC, SPL,
26	3126	201 @ 2200	101	74.6	643 @ 1400	123	58.1	EM, DI, TC, SPL,
27	3126	196 @ 2200	100	74.1	692 @ 1400	143	67.5	EM, DI, TC, SPL,
28	3126	163 @ 2200	84	62.4	595 @ 1400	113	53.4	EM, DI, TC, SPL,
29	3126	163 @ 2200	85	63.2	595 @ 1400	113	53.4	EM, DI, TC, SPL,
30	3126	163 @ 2200	84	62.4	595 @ 1400	113	53.4	EM, DI, TC, SPL,
31	3126	158 @ 2200	80	59.3	578 @ 1400	110	51.9	EM, DI, TC, SPL,