



California Environmental Protection Agency
AIR RESOURCES BOARD

CATERPILLAR, INC.

Full
EXECUTIVE ORDER U-R-001-0202
New Off-Road
Compression-Ignition Engines

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	2CPXL07.2HSK	7.2	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module			Tractor, Motor Grader and Industrial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, 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
		FEL	N/A	6.0	N/A	N/A	N/A	N/A	N/A	N/A
		CERT	--	5.6	--	--	--	8	2	15

BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

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 7th day of January 2002.

R. B. Summerfield, Chief
Mobile Source Operations Division

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W-R-001-202

Manufacturer: CATERPILLAR INC.
 Engine category: Nonroad Over 50 Hp
 EPA Engine Family: 2CPXL07.2HSK
 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
1 - Cert Engine	3126	260 @ 2100	131	92.6	888 @ 1350	178	80.6	EM, DI, TC, ECM,
2	3126	175 @ 2500	81	67.9	501 @ 1500	97	49.1	EM, DI, TC, ECM,
3	3126	125 @ 2000	74	49.9	504 @ 1200	104	41.8	EM, DI, TC, ECM,
4	3126	140 @ 2000	83	55.6	562 @ 1200	115	46.6	EM, DI, TC, ECM,
5	3126	135 @ 2000	79	52.9	543 @ 1200	113	45.5	EM, DI, TC, ECM,
6	3126	155 @ 2000	87	58.5	620 @ 1200	126	51.1	EM, DI, TC, ECM,
7	3126	153 @ 2200	87	64.7	677 @ 1400	136	64.2	EM, DI, TC, ECM,
8	3126	160 @ 2200	88	65.1	677 @ 1400	136	64.2	EM, DI, TC, ECM,
9	3126	110 @ 2100	67	47.5	391 @ 1400	82	38.8	EM, DI, TC, ECM,
10	3126	115 @ 2100	68	48.4	408 @ 1400	85	40.2	EM, DI, TC, ECM,
11	3126	164 @ 2000	73	48.9	433 @ 1300	91	39.7	EM, DI, TC, ECM,
12	3126	158 @ 2000	91	61.1	566 @ 1300	114	50.0	EM, DI, TC, ECM,
13	3126	140 @ 2000	81	55.0	628 @ 1400	124	58.0	EM, DI, TC, ECM,

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 model rating 260 @ 2100 rpm are not offered for sale in California