

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)
2006	6SIDL08.4H5B	8.4	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module and Smoke Puff Limiter			Tractor	

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	STD	EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ KW < 450	Tier 2	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.3	0.9	0.17	12	2	43

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 14th day of March 2006.


 Allen Lyons, Chief
 Mobile Source Operations Division

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Engine Model Summary Template

U-R-050-0013

1. Engine Family 2. Engine Model 3. BHP@RPM (SAE Gross) 4. Fuel Rate: (for diesel only) @ peak HP (lbs/hr) 5. Fuel Rate: (for diesels only) @ peak HP (lbs/hr) 6. Torque @ RPM (SEA Gross) 7. Fuel Rate: mm/stroke@peak torque 8. Fuel Rate: (lbs/hr)@peak torque Device Per SAE J1930 9. Emission Control

Engine Family	Engine Model	3. BHP@RPM (SAE Gross)	4. Fuel Rate: (for diesel only) @ peak HP (lbs/hr)	5. Fuel Rate: (for diesels only) @ peak HP (lbs/hr)	6. Torque @ RPM (SEA Gross)	7. Fuel Rate: mm/stroke@peak torque	8. Fuel Rate: (lbs/hr)@peak torque Device Per SAE J1930	9. Emission Control
6SIDL08.4H5B	84.381 CTA-4V	308@2200	167	122.5	1154@1500	228	114.0	DDI, MASPL, ECM
6SIDL08.4H5B	84.501 84.397 CTA-4V	330@2100	180	126.0	896@1575	183	96.1	SPL
6SIDL08.4H5B	84.502 84.396 CTA-4V	379@2100	202	141.4	896@1575	183	96.1	SPL
6SIDL08.4H5B	84.503 84.395 CTA-4V	410@2100	217	151.9	896@1575	183	96.1	SPL
6SIDL08.4H5B	84.500 84.385 CTA-4V	289@2200	149	109.3	984@1500	193	96.5	SPL
6SIDL08.4H5B	84.506 84.399 CTA-4V	264@2200	137	100.5	919@1500	180	90.0	SPL
6SIDL08.4H5B	84.507 84.404 CTA-4V	269@2000	152	101.3	1000@1500	194	97.0	SPL
6SIDL08.4H5B	84.513 84.426 CTA-4V	379@2100	202	141.4	896@1575	183	96.1	SPL
6SIDL08.4H5B	84.514 84.427 CTA-4V	330@2100	180	126.0	896@1575	183	96.1	SPL

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Engine Model Summary Template

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: @ peak HP (lbs/hr) (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
6SIDL08.4H5B	84.516	84.445 CTA-4V	264@2200	136	99.7	984@1500	193	96.5	SPL
6SIDL08.4H5B	84.517	84.446 CTA-4V	289@2200	150	110.0	1077@1500	213	106.5	SPL

Engine Model Summary Form

Manufacturer: **CATERPILLAR INC.**
 Engine category: **Nonroad Over 50 Hp**
 EPA Engine Family: **6CPXL32.0ESK - 3**
 Mfr Family Name:
 Process Code: **Running Change**

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
24	C32	1502@1800	418	506.3	NA	NA	NA	EM, DI, TC, ECM,
25	C32	1330@1500	469	473.0	NA	NA	NA	EM, DI, TC, ECM,
26	C32	1502@1800	418	506.3	NA	NA	NA	EM, DI, TC, ECM,
27	C32	1330@1500	469	473.0	NA	NA	NA	EM, DI, TC, ECM,
28	C32	1257@1800	356	431.2	NA	NA	NA	EM, DI, TC, ECM,
29	C32	1110@1500	408	412.2	NA	NA	NA	EM, DI, TC, ECM,