



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 engines and emission control systems 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)
2008	8LBDL1.37SF2	1.0284, 1.3712	Diesel	5000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Indirect Diesel Injection			Loaders, Tractor, Dozer, Pump, Compressor, Generator Set, Other 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
19 ≤ kW < 37	Tier 4 Interim	STD	N/A	N/A	7.5	5.5	0.30	20	15	50
		CERT	--	--	4.5	1.8	0.26	5	4	11

**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 22<sup>nd</sup> day of February 2008.



Annette Hebert, Chief  
Mobile Source Operations Division

Engine Model Summary Template

Attachment, Page 1 of 3

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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: (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
8LBDL1.37SF2	LDW 1003	LDW 1003	26.1@3600	21.2	12.70	47.2@2100	21.7	7.58	IDI
8LBDL1.37SF2	LDW 1003 or	LDW 1003 or	25.7@3400	21.0	11.88	45.7@2100	21.0	7.34	IDI
8LBDL1.37SF2	LDW 1003	LDW 1003	26.1@3600	21.2	12.70	FIXED SPEED	FIXED SPEED	FIXED SPEED	IDI
8LBDL1.37SF2	LDW 1404	LDW 1404	34.2@3600	20.7	16.51	57.5@2200	21.0	10.25	IDI
8LBDL1.37SF2	LDW 1404 or	LDW 1404 or	33.9@3400	21.0	15.83	59.0@2000	21.0	9.30	IDI
8LBDL1.37SF2	LDW 1404 or	LDW 1404 or	32.9@3300	21.0	15.37	59.0@2000	21.0	9.30	IDI
8LBDL1.37SF2	LDW 1404 or	LDW 1404 or	30.2@3000	20.0	13.29	59.0@2000	21.0	9.30	IDI
8LBDL1.37SF2	LDW 1404 or	LDW 1404 or	29.1@2800	20.2	12.54	57.5@2000	20.8	9.22	IDI
8LBDL1.37SF2	LDW 1404 or	LDW 1404 or	28.2@2700	20.2	12.08	57.5@2000	20.8	9.22	IDI
8LBDL1.37SF2	LDW 1404 or	LDW 1404 or	25.5@2500	20.2	11.20	54.6@1800	21.0	8.38	IDI

**Engine Model Summary Template**

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Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm <sup>3</sup> /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 <sup>3</sup> /stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
8LBDL1.37SF2		KDW 1404	34.2@3600	20.7	16.51	57.5@2200	21.0	10.25	IDI
8LBDL1.37SF2		KDW 1404 or KDW 1404/B3	33.9@3400	21.0	15.83	59.0@2000	21.0	9.30	IDI
8LBDL1.37SF2		KDW 1404 or KDW 1404/B2	32.9@3300	21.0	15.37	59.0@2000	21.0	9.30	IDI
8LBDL1.37SF2		KDW 1404 or KDW 1404/B1	30.2@3000	20.0	13.29	59.0@2000	21.0	9.30	IDI
8LBDL1.37SF2		KDW 1404 or KDW 1404/B4	29.1@2800	20.2	12.54	57.5@2000	20.8	9.22	IDI
8LBDL1.37SF2		KDW 1404 or KDW 1404/B7	28.2@2700	20.2	12.08	57.5@2000	20.8	9.22	IDI
8LBDL1.37SF2		KDW 1404 or KDW 1404/B6	25.5@2500	20.2	11.20	54.6@1800	21.0	8.38	IDI

# Engine Model Summary Template

Attachment, page 3 of 3 U-R-027-0093

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: 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
8LBDL1.37SF2		LDW 1404GE	33.5@3600	20.0	15.96	FIXED SPEED	FIXED SPEED	FIXED SPEED	IDI
8LBDL1.37SF2		LDW 1404GE	29.5@3000	19.5	12.96	FIXED SPEED	FIXED SPEED	FIXED SPEED	IDI
8LBDL1.37SF2		KDW 1404GE	33.5@3600	20.0	15.96	FIXED SPEED	FIXED SPEED	FIXED SPEED	IDI
8LBDL1.37SF2		KDW 1404GE	29.5@3000	19.5	12.96	FIXED SPEED	FIXED SPEED	FIXED SPEED	IDI
8LBDL1.37SF2		LDW 1003	26.1@3600	21.2	12.70	47.2@2100	21.7	7.58	IDI
8LBDL1.37SF2		LDW 1003 or LDW 1003/B3	25.7@3400	21.0	11.88	45.7@2100	21.0	7.34	IDI
8LBDL1.37SF2		LDW 1003	26.1@3600	21.2	12.70	FIXED SPEED	FIXED SPEED	FIXED SPEED	IDI
8LBDL1.37SF2		LDW 1404	34.2@3600	20.7	16.51	57.5@2200	21.0	10.25	IDI
8LBDL1.37SF2		LDW 1404 or LDW 1404/B3	33.9@3400	21.0	15.83	59.0@2000	21.0	9.30	IDI
8LBDL1.37SF2		LDW 1404 or LDW 1404/B2	32.9@3300	21.0	15.37	59.0@2000	21.0	9.30	IDI
8LBDL1.37SF2		LDW 1404 or LDW 1404/B1	30.2@3000	20.0	13.29	59.0@2000	21.0	9.30	IDI
8LBDL1.37SF2		LDW 1404 or LDW 1404/B4	29.1@2800	20.2	12.54	57.5@2000	20.8	9.22	IDI
8LBDL1.37SF2		LDW 1404 or LDW 1404/B7	28.2@2700	20.2	12.08	57.5@2000	20.8	9.22	IDI
8LBDL1.37SF2		LDW 1404 or LDW 1404/B6	25.5@2500	20.2	11.20	54.6@1800	21.0	8.38	IDI
8LBDL1.37SF2		KDW 1003	26.1@3600	21.2	12.70	47.2@2100	21.7	7.58	IDI
8LBDL1.37SF2		KDW 1003 or KDW 1003/B3	25.7@3400	21.0	11.88	45.7@2100	21.0	7.34	IDI
8LBDL1.37SF2		KDW 1003	26.1@3600	21.2	12.70	FIXED SPEED	FIXED SPEED	FIXED SPEED	IDI