



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)
2009	9HZXL.517V51	0.517	Diesel	3000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection			Pump, Compressor, 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
kW < 8	Tier 4	STD	N/A	N/A	7.5	8.0	0.80	N/A	N/A	N/A
		CERT	--	--	5.9	5.1	0.61	--	--	--

BE IT FURTHER RESOLVED: That certification to the standards in 13 CCR 2423(b)(1)(A) -Table 1b listed above has been permitted pursuant to Endnote 2 of the same table.

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 12th day of December 2008.


Annette Hebert, Chief
Mobile Source Operations Division

Motorenfabrik Plate
Nominal C₁

Attachment

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Engine Model Summary Template

Year	Engine Code	Engine Model	Stroke inches	Stroke Centimeters	Stroke Millimeters	Stroke Inches	Stroke Centimeters	Stroke Millimeters	Stroke Inches	Stroke Centimeters	Stroke Millimeters	Stroke Inches	Stroke Centimeters	Stroke Millimeters
1967	110306	110306000	26.5	5.1	13.28700	26	1.0	13.28700	26	1.0	13.28700	26	1.0	
1968	110306	110306000	26.5	5.0	12.80000	26	1.0	12.80000	26	1.0	12.80000	26	1.0	
1969	110306	110306000	26.5	5.0	12.80000	26	1.0	12.80000	26	1.0	12.80000	26	1.0	
1970	110306	110306000	26.5	4.9	12.45000	26	1.0	12.45000	26	1.0	12.45000	26	1.0	
1971	110306	110306000	26.5	4.8	12.20000	26	1.0	12.20000	26	1.0	12.20000	26	1.0	
1972	110306	110306000	26.5	4.8	12.20000	26	1.0	12.20000	26	1.0	12.20000	26	1.0	
1973	110306	110306000	26	4.8	12.20000	26	1.0	12.20000	26	1.0	12.20000	26	1.0	
1974	110306	110306000	26	4.7	12.00000	26	1.0	12.00000	26	1.0	12.00000	26	1.0	
1975	110306	110306000	26	4.6	11.80000	26	1.0	11.80000	26	1.0	11.80000	26	1.0	
1976	110306	110306000	26	4.6	11.80000	26	1.0	11.80000	26	1.0	11.80000	26	1.0	
1977	110306	110306000	26	4.5	11.50000	26	1.0	11.50000	26	1.0	11.50000	26	1.0	
1978	110306	110306000	26	4.4	11.20000	26	1.0	11.20000	26	1.0	11.20000	26	1.0	
1979	110306	110306000	27	4.4	11.20000	27	1.0	11.20000	27	1.0	11.20000	27	1.0	
1980	110306	110306000	27	4.4	11.20000	27	1.0	11.20000	27	1.0	11.20000	27	1.0	
1981	110306	110306000	27	4.3	10.90000	27	1.0	10.90000	27	1.0	10.90000	27	1.0	
1982	110306	110306000	27	4.2	10.60000	27	1.0	10.60000	27	1.0	10.60000	27	1.0	
1983	110306	110306000	27	4.1	10.40000	27	1.0	10.40000	27	1.0	10.40000	27	1.0	
1984	110306	110306000	27	4.0	10.20000	27	1.0	10.20000	27	1.0	10.20000	27	1.0	
1985	110306	110306000	27	3.8	9.60000	27	1.0	9.60000	27	1.0	9.60000	27	1.0	
1986	110306	110306000	27	3.8	9.60000	27	1.0	9.60000	27	1.0	9.60000	27	1.0	
1987	110306	110306000	27	3.7	9.40000	27	1.0	9.40000	27	1.0	9.40000	27	1.0	
1988	110306	110306000	27	3.6	9.10000	27	1.0	9.10000	27	1.0	9.10000	27	1.0	
1989	110306	110306000	27	3.5	8.90000	27	1.0	8.90000	27	1.0	8.90000	27	1.0	
1990	110306	110306000	26	3.3	8.40000	26	1.0	8.40000	26	1.0	8.40000	26	1.0	
1991	110306	110306000	26	3.2	8.10000	26	1.0	8.10000	26	1.0	8.10000	26	1.0	
1992	110306	110306000	26	3.2	8.10000	26	1.0	8.10000	26	1.0	8.10000	26	1.0	

DPZ

Return to Template

Meteorological Note
 Montreal CJ

Attachment

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Remarks Template

Engine Model Summary Template

Engine Code	Engine Model	Engine # (to Running)	Engine # (to Total)	Engine # (to Total)	Engine # (to Total)	Engine # (to Total)	Engine # (to Total)
104	1050 T10008	20	31	10 @ 100	20	14	
104	1050 T10009	20	30	10 @ 100	20	14	
104	1050 T10010	20	30	10 @ 2000	20	13	
104	1070 T100003	20	29	10 @ 2000	20	13	

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