

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.667V83	0.667	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
0 ≤kW < 19	Tier 4	OPTIONAL STD	N/A	N/A	7.5	6.6	0.40	N/A	N/A	N/A
		CERT	--	--	7.0	3.4	0.27	--	--	--


**BE IT FURTHER RESOLVED:** That for the listed engine models, the manufacturer has complied with the more stringent set of standards from the various power categories in conformance with Section 1039.230 (e) of the "California Exhaust Emission Standards and Test Procedures for 2008 and Later Tier 4 Off-Road Compression-Ignition Engines, Part I-C" adopted October 20, 2005.

**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 12<sup>th</sup> day of December 2008.

  
 Annette Hebert, Chief  
 Mobile Source Operations Division

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 Nummer CI

et al. 10/10/10

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U-R-034-1199

**Examine Model Summary Template**

Step	Model	R Squared	Adjusted R Squared	F	df	Significance	Partial	Collinearity	Partial	Collinearity	Partial	Collinearity
1	1	.000	.000	1.000	1, 100	.371	.000	1.000	1.000	1.000	1.000	1.000
2	2	.000	.000	1.000	2, 99	.371	.000	1.000	1.000	1.000	1.000	1.000
3	3	.000	.000	1.000	3, 98	.371	.000	1.000	1.000	1.000	1.000	1.000
4	4	.000	.000	1.000	4, 97	.371	.000	1.000	1.000	1.000	1.000	1.000
5	5	.000	.000	1.000	5, 96	.371	.000	1.000	1.000	1.000	1.000	1.000
6	6	.000	.000	1.000	6, 95	.371	.000	1.000	1.000	1.000	1.000	1.000
7	7	.000	.000	1.000	7, 94	.371	.000	1.000	1.000	1.000	1.000	1.000
8	8	.000	.000	1.000	8, 93	.371	.000	1.000	1.000	1.000	1.000	1.000
9	9	.000	.000	1.000	9, 92	.371	.000	1.000	1.000	1.000	1.000	1.000
10	10	.000	.000	1.000	10, 91	.371	.000	1.000	1.000	1.000	1.000	1.000
11	11	.000	.000	1.000	11, 90	.371	.000	1.000	1.000	1.000	1.000	1.000
12	12	.000	.000	1.000	12, 89	.371	.000	1.000	1.000	1.000	1.000	1.000
13	13	.000	.000	1.000	13, 88	.371	.000	1.000	1.000	1.000	1.000	1.000
14	14	.000	.000	1.000	14, 87	.371	.000	1.000	1.000	1.000	1.000	1.000
15	15	.000	.000	1.000	15, 86	.371	.000	1.000	1.000	1.000	1.000	1.000
16	16	.000	.000	1.000	16, 85	.371	.000	1.000	1.000	1.000	1.000	1.000
17	17	.000	.000	1.000	17, 84	.371	.000	1.000	1.000	1.000	1.000	1.000
18	18	.000	.000	1.000	18, 83	.371	.000	1.000	1.000	1.000	1.000	1.000
19	19	.000	.000	1.000	19, 82	.371	.000	1.000	1.000	1.000	1.000	1.000
20	20	.000	.000	1.000	20, 81	.371	.000	1.000	1.000	1.000	1.000	1.000
21	21	.000	.000	1.000	21, 80	.371	.000	1.000	1.000	1.000	1.000	1.000
22	22	.000	.000	1.000	22, 79	.371	.000	1.000	1.000	1.000	1.000	1.000
23	23	.000	.000	1.000	23, 78	.371	.000	1.000	1.000	1.000	1.000	1.000
24	24	.000	.000	1.000	24, 77	.371	.000	1.000	1.000	1.000	1.000	1.000
25	25	.000	.000	1.000	25, 76	.371	.000	1.000	1.000	1.000	1.000	1.000
26	26	.000	.000	1.000	26, 75	.371	.000	1.000	1.000	1.000	1.000	1.000
27	27	.000	.000	1.000	27, 74	.371	.000	1.000	1.000	1.000	1.000	1.000
28	28	.000	.000	1.000	28, 73	.371	.000	1.000	1.000	1.000	1.000	1.000
29	29	.000	.000	1.000	29, 72	.371	.000	1.000	1.000	1.000	1.000	1.000
30	30	.000	.000	1.000	30, 71	.371	.000	1.000	1.000	1.000	1.000	1.000
31	31	.000	.000	1.000	31, 70	.371	.000	1.000	1.000	1.000	1.000	1.000
32	32	.000	.000	1.000	32, 69	.371	.000	1.000	1.000	1.000	1.000	1.000
33	33	.000	.000	1.000	33, 68	.371	.000	1.000	1.000	1.000	1.000	1.000
34	34	.000	.000	1.000	34, 67	.371	.000	1.000	1.000	1.000	1.000	1.000
35	35	.000	.000	1.000	35, 66	.371	.000	1.000	1.000	1.000	1.000	1.000
36	36	.000	.000	1.000	36, 65	.371	.000	1.000	1.000	1.000	1.000	1.000
37	37	.000	.000	1.000	37, 64	.371	.000	1.000	1.000	1.000	1.000	1.000
38	38	.000	.000	1.000	38, 63	.371	.000	1.000	1.000	1.000	1.000	1.000
39	39	.000	.000	1.000	39, 62	.371	.000	1.000	1.000	1.000	1.000	1.000
40	40	.000	.000	1.000	40, 61	.371	.000	1.000	1.000	1.000	1.000	1.000



Motorenfabrik Hatz

Attachment

U-R-034-0194

Nennrad CI

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Engine Model Summary Template

RETURN TO MANUFACTURER

Model	Year	Engine Code	Engine Model	Stroke	Displacement (cc)	Displacement (cu in)	Stroke	Displacement (cc)	Displacement (cu in)	Stroke	Displacement (cc)	Displacement (cu in)
None	1971	12-480000	37.5	5.9	37.4	2.3	37.4	2.3	37.4	2.3	37.4	2.3
None	1971	12-240000	37.5	5.9	37.4	2.3	37.4	2.3	37.4	2.3	37.4	2.3
None	1971	12-180000	37.5	5.9	37.4	2.3	37.4	2.3	37.4	2.3	37.4	2.3
None	1971	11-800000	37.5	5.9	37.4	2.3	37.4	2.3	37.4	2.3	37.4	2.3
None	1971	11-700000	37.5	5.9	37.4	2.3	37.4	2.3	37.4	2.3	37.4	2.3
None	1971	11-600000	37.5	5.9	37.4	2.3	37.4	2.3	37.4	2.3	37.4	2.3
None	1971	11-500000	37.5	5.9	37.4	2.3	37.4	2.3	37.4	2.3	37.4	2.3
None	1971	11-400000	37.5	5.9	37.4	2.3	37.4	2.3	37.4	2.3	37.4	2.3
None	1971	11-300000	37.5	5.9	37.4	2.3	37.4	2.3	37.4	2.3	37.4	2.3
None	1971	11-200000	37.5	5.9	37.4	2.3	37.4	2.3	37.4	2.3	37.4	2.3
None	1971	11-100000	37.5	5.9	37.4	2.3	37.4	2.3	37.4	2.3	37.4	2.3
None	1971	10-800000	37.5	5.9	37.4	2.3	37.4	2.3	37.4	2.3	37.4	2.3
None	1971	10-700000	37.5	5.9	37.4	2.3	37.4	2.3	37.4	2.3	37.4	2.3
None	1971	10-600000	37.5	5.9	37.4	2.3	37.4	2.3	37.4	2.3	37.4	2.3
None	1971	10-500000	37.5	5.9	37.4	2.3	37.4	2.3	37.4	2.3	37.4	2.3
None	1971	10-400000	37.5	5.9	37.4	2.3	37.4	2.3	37.4	2.3	37.4	2.3
None	1971	10-300000	37.5	5.9	37.4	2.3	37.4	2.3	37.4	2.3	37.4	2.3
None	1971	10-200000	37.5	5.9	37.4	2.3	37.4	2.3	37.4	2.3	37.4	2.3
None	1971	10-100000	37.5	5.9	37.4	2.3	37.4	2.3	37.4	2.3	37.4	2.3
None	1971	09-800000	37.5	5.9	37.4	2.3	37.4	2.3	37.4	2.3	37.4	2.3
None	1971	09-700000	37.5	5.9	37.4	2.3	37.4	2.3	37.4	2.3	37.4	2.3
None	1971	09-600000	37.5	5.9	37.4	2.3	37.4	2.3	37.4	2.3	37.4	2.3
None	1971	09-500000	37.5	5.9	37.4	2.3	37.4	2.3	37.4	2.3	37.4	2.3
None	1971	09-400000	37.5	5.9	37.4	2.3	37.4	2.3	37.4	2.3	37.4	2.3
None	1971	09-300000	37.5	5.9	37.4	2.3	37.4	2.3	37.4	2.3	37.4	2.3
None	1971	09-200000	37.5	5.9	37.4	2.3	37.4	2.3	37.4	2.3	37.4	2.3
None	1971	09-100000	37.5	5.9	37.4	2.3	37.4	2.3	37.4	2.3	37.4	2.3

