



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.667C83	0.667	Diesel	3000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection			Pump, 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
kW < 8	Tier 4	STD	N/A	N/A	7.5	8.0	0.40	N/A	N/A	N/A
		CERT	--	--	7.2	2.9	0.19	--	--	--

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 Hatz
 Aumund CI

Attachment

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U-R-034-C-75

Engine Model Summary Template

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Model	Engine Code	Engine Model	Displacement (cc)	Stroke (mm)	Stroke (in)	Stroke (mm)	Stroke (in)	Stroke (mm)	Stroke (in)	Stroke (mm)	Stroke (in)
1000	1001	1001	1000	37	42	37	42	37	42	37	42
1000	1002	1002	1000	37	41	37	41	37	41	37	41
1000	1003	1003	1000	37	44	37	44	37	44	37	44
1000	1004	1004	1000	37	43	37	43	37	43	37	43
1000	1005	1005	1000	37	42	37	42	37	42	37	42
1000	1006	1006	1000	37	41	37	41	37	41	37	41
1000	1007	1007	1000	37	40	37	40	37	40	37	40
1000	1008	1008	1000	37	39	37	39	37	39	37	39
1000	1009	1009	1000	37	38	37	38	37	38	37	38
1000	1010	1010	1000	37	37	37	37	37	37	37	37
1000	1011	1011	1000	37	36	37	36	37	36	37	36
1000	1012	1012	1000	37	35	37	35	37	35	37	35
1000	1013	1013	1000	37	34	37	34	37	34	37	34
1000	1014	1014	1000	37	33	37	33	37	33	37	33
1000	1015	1015	1000	37	32	37	32	37	32	37	32
1000	1016	1016	1000	37	31	37	31	37	31	37	31
1000	1017	1017	1000	37	30	37	30	37	30	37	30
1000	1018	1018	1000	37	29	37	29	37	29	37	29
1000	1019	1019	1000	37	28	37	28	37	28	37	28
1000	1020	1020	1000	37	27	37	27	37	27	37	27
1000	1021	1021	1000	37	26	37	26	37	26	37	26
1000	1022	1022	1000	37	25	37	25	37	25	37	25
1000	1023	1023	1000	37	24	37	24	37	24	37	24
1000	1024	1024	1000	37	23	37	23	37	23	37	23
1000	1025	1025	1000	37	22	37	22	37	22	37	22
1000	1026	1026	1000	37	21	37	21	37	21	37	21
1000	1027	1027	1000	37	20	37	20	37	20	37	20
1000	1028	1028	1000	37	19	37	19	37	19	37	19
1000	1029	1029	1000	37	18	37	18	37	18	37	18
1000	1030	1030	1000	37	17	37	17	37	17	37	17
1000	1031	1031	1000	37	16	37	16	37	16	37	16
1000	1032	1032	1000	37	15	37	15	37	15	37	15
1000	1033	1033	1000	37	14	37	14	37	14	37	14
1000	1034	1034	1000	37	13	37	13	37	13	37	13
1000	1035	1035	1000	37	12	37	12	37	12	37	12
1000	1036	1036	1000	37	11	37	11	37	11	37	11
1000	1037	1037	1000	37	10	37	10	37	10	37	10
1000	1038	1038	1000	37	9	37	9	37	9	37	9
1000	1039	1039	1000	37	8	37	8	37	8	37	8
1000	1040	1040	1000	37	7	37	7	37	7	37	7
1000	1041	1041	1000	37	6	37	6	37	6	37	6
1000	1042	1042	1000	37	5	37	5	37	5	37	5
1000	1043	1043	1000	37	4	37	4	37	4	37	4
1000	1044	1044	1000	37	3	37	3	37	3	37	3
1000	1045	1045	1000	37	2	37	2	37	2	37	2
1000	1046	1046	1000	37	1	37	1	37	1	37	1
1000	1047	1047	1000	37	0	37	0	37	0	37	0

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