

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)
2010	AHZXL1.38SV3	1.384	Diesel	5000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Mechanical Direct 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):

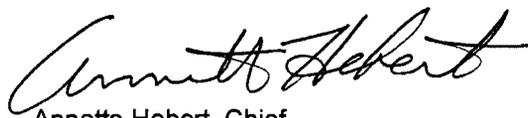
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
19 ≤ kW < 37	Tier 4 interim	STD	N/A	N/A	7.5	5.5	0.30	20	15	50
		CERT	--	--	6.4	4.8	0.24	3	3	3

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 11 day of February 2010.


 Annette Hebert, Chief
 Mobile Source Operations Division

Motorenfabrik Hatz
Nonroad CI

Attachment

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EO# U-R-034-0237

11/28/2010

Engine Model Summary Template

Engine Family	1.Engine Code	2.Engine Model	3.HP@RPM (SAE Gross)	4.Fuel Rate: mm ³ /trk @ peak HP (Or diesel oil)	5.Fuel Rate: (%A) @ peak HP (Or diesel oil)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm ³ /trk @ peak brq	8.Fuel Rate: (%A) @ peak brq	9.Emissions Control Desize Per SAE J1930
AHZXL1.38SV3	N/A	4W35	30,2@3000	19,0	4,0	60@1800	20,0	2,6	Mechanical DI
AHZXL1.38SV3	N/A	4W35	29,8@2950	19,0	4,0	60@1800	20,0	2,6	
AHZXL1.38SV3	N/A	4W35	29,5@2900	19,0	3,9	60@1800	20,0	2,6	
AHZXL1.38SV3	N/A	4W35	29,2@2850	19,0	3,8	60@1800	20,0	2,6	
AHZXL1.38SV3	N/A	4W35	28,8@2800	19,0	3,8	60@1800	20,0	2,6	
AHZXL1.38SV3	N/A	4W35	28,6@2750	19,0	3,7	60@1800	20,0	2,6	
AHZXL1.38SV3	N/A	4W35	28,2@2700	19,0	3,6	60@1800	20,0	2,6	
AHZXL1.38SV3	N/A	4W35	27,9@2650	19,0	3,6	60@1800	20,0	2,6	
AHZXL1.38SV3	N/A	4W35	27,5@2600	19,0	3,5	60@1800	20,0	2,6	
AHZXL1.38SV3	N/A	4W35	27,0@2550	19,0	3,4	60@1800	20,0	2,6	
AHZXL1.38SV3	N/A	4W35	26,7@2500	19,0	3,4	60@1800	20,0	2,6	
AHZXL1.38SV3	N/A	4W35	26,3@2450	19,0	3,3	60@1800	20,0	2,6	
AHZXL1.38SV3	N/A	4W35	25,9@2400	19,0	3,2	60@1800	20,0	2,6	
AHZXL1.38SV3	N/A	4W35	27,5@3000	17,0	3,6	53@1800	18,0	2,3	
AHZXL1.38SV3	N/A	4W35	27,1@2950	17,0	3,6	53@1800	18,0	2,3	
AHZXL1.38SV3	N/A	4W35	26,8@2900	17,0	3,5	53@1800	18,0	2,3	
AHZXL1.38SV3	N/A	4W35	26,6@2850	17,0	3,4	53@1800	18,0	2,3	
AHZXL1.38SV3	N/A	4W35	26,1@2800	17,0	3,4	53@1800	18,0	2,3	
AHZXL1.38SV3	N/A	4W35	25,9@2750	17,0	3,3	53@1800	18,0	2,3	
AHZXL1.38SV3	N/A	4W35	25,6@2700	17,0	3,3	53@1800	18,0	2,3	