

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)
2011	BHZXL1.38TV2	1.384	Diesel	5000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Mechanical Direct Injection, Turbocharger			Pump, 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	--	--	7.0	2.6	0.24	3	2	5

**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 Sections 2425 and 2426 (emission control system warranty).

**BE IT FURTHER RESOLVED:** The listed engine models are conditionally certified pending submission of new emission control labels to comply with 13 CCR Section 2424 (emission control labels). The manufacturer has until May 16, 2011 to replace all existing MY2011 emission control labels to remove this conditional certification. Failure to resolve concerns by the specified date, shall be cause for the Executive Officer to rescind this conditional certification, in which case all engines covered under this conditional certification would be deemed uncertified and subject to civil penalties pursuant to Health and Safety Code Section 43154.

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 17<sup>th</sup> day of February 2011.

  
 Annette Hebert, Chief  
 Mobile Source Operations Division

Motorenfabrik Hatz  
 Nonroad CI

Attachment

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EO# U-R-034-0266

2/4/2011

**Engine Model Summary Template**

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm <sup>3</sup> /stroke @ peak HP (br diesel only)	5.Fuel Rate: (Lx/h) @ peak HP (br diesel only)	6.Torque @ RPM (SAE Gross)	7.Fuel Rate: mm <sup>3</sup> /stroke @ peak torque	8.Fuel Rate: (Lx/h) @ peak torque	9.Engine Control Device Per SAE J1930
BHZXL1.38TV2	N/A	4W35T	41,0@3000	26,5	5,6	89@1800	29,5	3,8	Mechanical DI, TC
BHZXL1.38TV2	N/A	4W35T	39,4@2800	26,5	5,3	90@2000	30,0	4,3	
BHZXL1.38TV2	N/A	4W35T	37,3@3000	24,5	5,2	87@1800	29,0	3,7	
BHZXL1.38TV2	N/A	4W35T	36,9@2950	24,5	5,1	87@1800	29,0	3,7	
BHZXL1.38TV2	N/A	4W35T	36,9@2900	24,5	5,0	87@1800	29,0	3,7	
BHZXL1.38TV2	N/A	4W35T	36,2@2850	24,5	5,0	87@1800	29,0	3,7	
BHZXL1.38TV2	N/A	4W35T	36,2@2800	24,5	4,9	86@1800	28,5	3,6	
BHZXL1.38TV2	N/A	4W35T	35,4@2750	24,5	4,8	84@1800	28,0	3,6	
BHZXL1.38TV2	N/A	4W35T	35,1@2700	24,5	4,7	81@1800	27,5	3,5	
BHZXL1.38TV2	N/A	4W35T	34,6@2650	24,5	4,6	80@1800	27,0	3,4	
BHZXL1.38TV2	N/A	4W35T	34,2@2600	24,5	4,5	78@1800	26,5	3,4	
BHZXL1.38TV2	N/A	4W35T	33,8@2550	24,5	4,4	78@1800	26,0	3,3	
BHZXL1.38TV2	N/A	4W35T	33,3@2500	24,5	4,3	77@1800	25,5	3,3	

SUPERSEDED