



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	BHZXL347V30	0.347	Diesel	3000
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
kW < 8	Tier 4 - Final	STD	N/A	N/A	7.5	8.0	0.60	N/A	N/A	N/A
		CERT	--	--	6.6	6.0	0.23	--	--	--

**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.

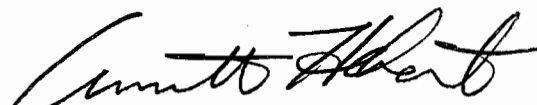
**BE IT FURTHER RESOLVED:** That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Sections 2425 and 2426 (emission control system warranty).

**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 7 day of February 2011.

  
Annette Hebert, Chief  
Mobile Source Operations Division

Motorenfabrik Hatz  
Nonroad CI

Attachment

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**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 (for diesel only)	5.Fuel Rate: (lb./hr) @ peak HP (for diesel only)	6.Torque @ RPM (SAE Gross)	7.Fuel Rate: mm <sup>3</sup> /stroke @ peak torque	8.Fuel Rate: (lb./hr) @ peak torque	9.Emissions Cost Device Per SAEJ
BHZXL347V30	N/A	1B30 / V	6,7 @ 3600	16	3,2	12,9 @ 2000	17,5	2,0	Mechanical DI
BHZXL347V30	N/A	1B30 / V	6,7 @ 3550	16	3,2	12,9 @ 2000	17,5	2,0	
BHZXL347V30	N/A	1B30 / V	6,6 @ 3500	16	3,1	12,9 @ 2000	17,5	2,0	
BHZXL347V30	N/A	1B30 / V	6,6 @ 3450	16	3,1	12,9 @ 2000	17,5	2,0	
BHZXL347V30	N/A	1B30 / V	6,6 @ 3400	16	3,0	12,9 @ 2000	17,5	2,0	
BHZXL347V30	N/A	1B30 / V	6,5 @ 3350	16	3,0	12,9 @ 2000	17,5	2,0	
BHZXL347V30	N/A	1B30 / V	6,5 @ 3300	16	2,9	12,9 @ 2000	17,5	2,0	
BHZXL347V30	N/A	1B30 / V	6,5 @ 3250	16	2,9	12,9 @ 2000	17,5	2,0	
BHZXL347V30	N/A	1B30 / V	6,4 @ 3200	16	2,9	12,9 @ 2000	17,5	2,0	
BHZXL347V30	N/A	1B30 / V	6,4 @ 3150	16	2,8	12,9 @ 2000	17,5	2,0	
BHZXL347V30	N/A	1B30 / V	6,3 @ 3100	16	2,8	12,9 @ 2000	17,5	2,0	
BHZXL347V30	N/A	1B30 / V	6,3 @ 3050	16	2,7	12,9 @ 2000	17,5	2,0	
BHZXL347V30	N/A	1B30 / V	6,2 @ 3000	16,5	2,8	12,9 @ 2000	17,5	2,0	
BHZXL347V30	N/A	1B30 / V	6,2 @ 2950	16,5	2,7	12,9 @ 2000	17,5	2,0	
BHZXL347V30	N/A	1B30 / V	6,1 @ 2900	16,5	2,7	12,9 @ 2000	17,5	2,0	
BHZXL347V30	N/A	1B30 / V	6,0 @ 2850	16,5	2,8	12,9 @ 2000	17,5	2,0	
BHZXL347V30	N/A	1B30 / V	6,0 @ 2800	16,5	2,8	12,7 @ 2000	17,0	1,9	
BHZXL347V30	N/A	1B30 / V	5,9 @ 2750	16,5	2,5	12,7 @ 2000	17,0	1,9	
BHZXL347V30	N/A	1B30 / V	5,9 @ 2700	16,5	2,5	12,7 @ 2000	17,0	1,9	
BHZXL347V30	N/A	1B30 / V	5,8 @ 2650	16,5	2,4	12,6 @ 2000	17,0	1,9	
BHZXL347V30	N/A	1B30 / V	5,7 @ 2600	16,5	2,4	12,4 @ 2000	17,0	1,9	
BHZXL347V30	N/A	1B30 / V	5,6 @ 2550	16,5	2,3	12,4 @ 2000	17,0	1,9	
BHZXL347V30	N/A	1B30 / V	5,5 @ 2500	16,5	2,3	12,4 @ 2000	17,0	1,9	
BHZXL347V30	N/A	1B30 / V	5,4 @ 2450	16,5	2,3	12,4 @ 2000	17,0	1,9	
BHZXL347V30	N/A	1B30 / V	5,4 @ 2400	16,5	2,2	12,3 @ 2000	17,0	1,9	
BHZXL347V30	N/A	1B30 / V	5,3 @ 2350	16,5	2,2	12,3 @ 2000	17,0	1,9	
BHZXL347V30	N/A	1B30 / V	5,2 @ 2300	16,5	2,1	12,3 @ 2000	16,0	1,8	

Motorenfabrik Hatz  
Nonroad CI

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**Engine Model Summary Template**

Engine Family	1.Engine Code	2.Engine Model	3.HP@RPM (SAE Gross)	4.Fuel Rate: mm <sup>3</sup> /stroke @ peak HP (br diesel only)	5.Fuel Rate: (lb./hr) @ peak HP (br diesel only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm <sup>3</sup> /stroke @ peak torque	8.Fuel Rate: (lb./hr) @ peak torque	9.Emission Cor Device Per SAEJ
BHZXL347V30	N/A	1B30 / V	5,1@2250	16,5	2,1	12,3@2000	16,0	1,8	Mechanical DI ↓
BHZXL347V30	N/A	1B30 / V	5,0@2200	16,5	2,0	12,1@2000	16,0	1,8	
BHZXL347V30	N/A	1B30 / V	4,9@2150	16,5	2,0	12,1@2000	16,0	1,8	
BHZXL347V30	N/A	1B30 / V	4,8@2100	16,5	1,9	12,1@2000	16,0	1,8	
BHZXL347V30	N/A	1B30 / V	4,7@2050	16,5	1,9	12,1@2000	16,0	1,8	
BHZXL347V30	N/A	1B30 / V	4,6@2000	16,5	1,8	12,1@2000	16,0	1,8	
BHZXL347V30	N/A	1B30 / V	4,6@2000	16,5	1,8	12,1@2000	16,0	1,8	

SUPERSEDED