California Environmental Protection Agency

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	BHZXL.517V50	0.517	Diesel	3000			
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION				
	Mechanical Direct In	jection	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	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)				OPACITY (%)			
POWER CLASS			HC .	NOx	NMHC+NOx	со	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			7.0	3.1	0.21			

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

day of February 2011.

Annette Hebert, Chief Mobile Source Operations Division

Motorenfabrik Hatz Nonroad (I

Attachment

EO# U-R-034-0252

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Return to Ten	iplate	Eng	Engine Model Summary Template							
Engine Family	1.Engine Cod	e 2.Engine Model	3.5 HP@RPM (SAEG ross)	4.Ftel Pade: mm.stroke @peak HP (1br dieseiosik)	5.Fite) Rate: (Davitr) @ peak HP (tor dieseis only)	6.Torque @ RPM (SEA Gross)	7.Ftel Pate: mm.& troke@peak torque	8.Fitel Bate: (bs/if)@peaktorqite	9.Emission Cont Device Per SAE J	
BHZXL.517V50	N/A	1050 S/Z/T/U	10,1@3300	26	4,8	20,7@2000	28	3,1	Jechanical	DI
BHZXL.517V50	N/A	1050 S/Z/T/U	10,1@3250	26	4.7	20,7@2000	28	3,1	······	
BHZXL.517V50	N/A	1050 S/Z/T/U	10,1@3200	26	4,8	20,7@2000	28	3,1		
BHZXL.517V50	N/A	1D50 S/Z/T/U	10,1@3150	26	4,6	20,7@2000	28	3,1	1999 - July 1991 - July	
BHZXL.517V50	N/A	1D50 S/Z/T/U	10,1@3100	26	4,5	20,7@2000	28	3,1	-	
BHZXL.517V50	N/A	1050 S/Z/T/U	10,1@3050	26	4,4	20,7@2000	28	3,1		
BHZXL.517V50	N/A	1D50 S/Z/T/U	10,0@3000	27	4,5	20,7@2000	28	3,1	N TREAMENT AND A RECENT AND A REPORT OF	
BHZXL.517V50	N/A	1D50 S/Z/T/U	10,0@2950	27	4,4	20,7@2000	28	3,1		
BHZXL.517V50	N/A	1D50 S/Z/T/U	9,9@2900	27	4,4	20,7@2000	28	3,1		
BHZXL.517V50	N/A	1D50 S/Z/T/U	9,8@2850	27	4,3	20,7@2000	28	3,1		
BHZXL.517V50	N/A	1D50 S/Z/T/U	9,7@2800	27	4,2	20,7@2000	28	3,1		
BHZXL.517V50	N/A	1D50 S/Z/T/U	9,5@2750	27	4,1	20,7@2000	28	3,1	1. Junior 1	
BHZXL.517V60	N/A	1050 S/Z/T/U	9,4@2700	27	4,1	20,7@2000	28	3,1		
BHZXL.517V50	N/A	1D50 S/Z/T/U	9,3 @2 650	27	4,0	20,7@2000	28	3,1	1999	
BHZXL.517V50	N/A	1D50 S/Z/T/U	9,1@2600	26	3,8	20,0@2000	27	3,0		
BHZXL.517V50	N/A	1050 S/Z/T/U	8,9@2550	26	3,7	20,0@2000	27	3,0		
BHZXL.517V50	N/A	1D50 S/Z/T/U	8, 8@ 2500	26	3,6	20,0@2000	27	3,0	ale star - 1 (1977) MARIEN of W MARIE and analysis Relationship (surgesting	
BHZXL.517V50	N/A	1D50 S/Z/T/U	8,6 @ 2450	26	3,6	20,0@2000	27	3,0		
BHZXL.517V50	N/A	1D50 S/Z/T/U	8,4@2400	26	3,5	20,0@2000	27	3.0		
BHZXL.517V50	N/A	1050 S/Z/T/U	8, 3@ 2350	26	3,4	20,0@2000	27	3,0		
BHZXL.517√50	N/A	1050 S/Z/T/U	8,1@2300	28	3,3	20,0@2000	27	3,0	an alge an ang 1 ata da da ata ata ata ata ata ata ata a	
BHZXL.517\/50	N/A	1D50 S/Z/T/U	7,9@2250	26	3,3	20,0@2000	27	3,0		
BHZXL.517V50	N/A	1D50 S/Z/T/U	7,7@2200	26	3,2	20,0@2000	27	3,0		
BHZXL.517V50	N/A	1050 S/Z/T/U	7,5@2150	28	3,1	20,0@2000	27	3,0		
BHZXL.517\/50	N/A	1050 S/Z/T/U	7,4@2100	26	3,0	20,0@2000	27	3,0	were for all all the second second second second	
BHZXL.517V50	N/A	1050 \$/Z/T/U	7,1@2050	26	3,0	20,0@2000	27	3,0		
BHZXL.517V50	N/A	1050 S/Z/T/U	7,0@2000	24	2,7	18,5@2000	24	2,7	V	