

MOTORENFABRIK HATZ

EXECUTIVE ORDER U-R-034-0240 New Off-Road Compression-Ignition Engines

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.243V20	0.243	Diesel 3000					
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION					
	Mechanical Direct In	jection	Pump, Compressor, Generator Set, and 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		EXHAUST (g/kw-hr)					OPACITY (%)		
POWER - CLASS	STANDARD CATEGORY		НС	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			6.9	5.5	0.47	-		

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 Hate Nonroad CI

Attachment

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E0#U-R-034-0240

Engine Model Summary Template

"	4 Famina Cade	2.Engine Model	3.8HP@RPM (SAEGross)	4.Fuel Rate: mm.stroke @ peak HP (for cless Losk)	5.Fite I Plate: (bs/hi) @ peak HP (br diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate; mm/stroke@peak tokree	8.F tel Rafe: (bs:/r)@peak forq te	9.Emissios Costrol Device Per SAE J 1930
	N/A	1920/1920R	4,6@3600	11	2,2	8,1@2100	11,2	1,3	Mechanical DI
BHZXL.243V20	N/A	1820/1820R	4,6@3550	11	2,2	8,1@2100	11,2	1,3	The test of the te
BHZXL.243V20	N/A	1820/1820R	4,6@3500	11	2,1	8,1@2100	11,2	1,3	
BHZXL.243V20	N/A	1820/1820R	4,6@3450	11	2,1	8,1@2100	11,2	1,3	
BHZXL.243V20	N/A	1B20/1B20R	4,5@3400	11	2,1	8,1@2100	11,2	1,3	eline tallite frontiere collections and anomalies of the collection of the collectio
BHZXL.243V20	N/A	1820/1820R	4,4@3350	11	2,1	8,1@2100	11,2	1,3	The Second Sec
BHZXL.243V20	N/A	1820/1820R	4,4@3300	11	2,0	8,1@2100	11,2	1,3	ACTION COMPANY TO ACTION OF THE PARTY OF THE
BHZXL 243V20		1820/1820R	4,3@3250	11	2,0	8,1@2100	11,2	1,3	Northern Statement Column Statement Statement Column Stat
BHZXL.243V20	N/A	1B20/1B20R	4,3@3200	11	2,0	8,1@2100	11,2	1,3	anteres automorphisms and the state of the s
BHZXL 243V20	N/A	1B20/1B20R	4,3@3150	11	1.9	8,1@2100	11,2	1,3	augustrākies augustrāja sautistērijās jaijas eta pareits kreik ir ir Pretitis, jes jai pagtistējās.
BHZXL.243V20		1820/1820R	4,2@3100	11	1.9	8,1@2100	11,2	1,3	Control of the second s
BHZXL.243V20			4,2@3050	11	1,9	8,1@2100	11,2	1,3	Aggression in the control of the con
BHZXL.243V20	.,-	1B20/1B20R	4,2@3000	11,5	1,9	8,1@2100	11,2	1,3	al annual
BHZXL.243V20		1B20/1B20R		11,5	1,9	8,1@2100	11,2	1,3	AND AND THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.
BHZXL.243V20	N/A	1B20/1B20R	4,1@2950		1,9	8,1@2100	11,2	1,3	and the state of t
BHZXL.243V20	N/A	1B20/1B20R	4,0@2900	the state of the s	1,8	8,1@2100	11,2	1,3	nationalistic many times is a second of the
BHZXL.243V20) N/A	1920/1920R	3,9@2850				11,2	1,3	anterior approximation de la company de la defenda approximation de la company de la c
BHZXL.243V20) N/A	1820/1820R	3,9@2800	11,5	1,8	8,1@2100			
BHZXL.243V20) N/A	1820/1820R	3,9@2750	11,5	1,8	8,1@2100	11,2	1,3	disense of a sympletic constraint annual properties and a street which has sufficiently been a full agreement of the experience with
BHZXL.243V20) N/A	1820/1820R	3,9@2700	The same of the sa	1,7	8,1@2100	11,2	1,3	es i martisori
BHZXL.243V20	N/A	1920/1920R	3,8@2650	11,5	1,7	8,1@2100	11,2	1,3	THE PERSON NAMED IN COLUMN TWO DESCRIPTIONS OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN C
BHZXL.243V20	o N/A	1820/1820R	3,8@2 60 0	11,5	1.7	8,1@2100	11,2	1,3	th strate-placement describes a become quest members as equal to
BHZXL 243V2		1820/1820R	3,8@2550	11,5	1,8	8,1@2100	11,2	1,3	and the contract of the second contract of th
BHZXL.243V2	0 N/A	1B20/1B20R	3,7@2500	11,5	1,8	7,8@2100	11,5	1,3	BETTE WITH THE PARTY TO SEE STREET AND SECURITION SEE S. S. SERVICE AND SECURITION SEE S. S. SERVICE AND SECURITION SEEDS.
BHZXL.243V2		1B20/1B20R	3, 6@24 50	11,5	1,8	7,8@2100	11,5	1,3	
BHZXL 243V2		1920/1920R	3,8@2400	11,5	1,5	7,8@2100	11,5	1,3	also at publication of their section said to a contradiguation and gray
BHZXL.243V2		1B20/1B20R	3,5@2350	11,5	1,5	7,8@2100	11,5	1,3	<u> </u>

Motorenfabrik Hatz Nonroad CI

Attachment

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E0# U-R-034-0240

Engine Model Summary Template

Engine Family	1.Engine Code	2.Engine Model	3.8HP@RPM (CAEGross)	4.Fuel Rafe: mm.stroke @ peak HP (for dieseloui⁄)	5.Feel Rale: (bs/hr) @ peak HP (br diesels only)	6.Torque @ RPM (SEA Gross)	7.Frel Kale: mm.&troke@peak forgre	8.Fiel Rale: (bs/hp@peaktorq)	9.Enission Control 6. Device Per CAE J 1900
BHZXL.243V20	N/A	1920/1920R	3,4@2300	11,5	1,5	7,8@2100	11,5	1,3	Mechanical DI
BHZXL.243V20	N/A	1B20/1B20R	3,3@2250	11,5	1,4	7,8@2150	11,5	1,3	TALESTANTICAL DE
BHZXL.243V20	N/A	1B20/1B20R	3,2@2200	11,5	1,4	7,5@2100	11,5	1,3	
BHZXL.243V20	N/A	1B20/1B20R	3,1@2150	11,5	1,4	7,3@2000	11,5	1,3	
BHZXL.243V20	N/A	1B20/1B20R	2,9@2100	11,5	1,3	7,3@2000	11,5	1,3	
BHZXL.243V20	N/A	1B20/1B20R	2,8@2050	11,5	1,3	7,2@2000	11,5	1,3	
BHZXL.243V20	N/A	1B20/1B20R	2,8@2000	11,5	1,3	7,3@2000	11,5	1,3	