

MOTORENFABRIK HATZ

EXECUTIVE ORDER U-R-034-0266-1 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	BHZXL1.38TV2	1.384	Diesel	5000		
	FEATURES & EMISSION		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	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)				OPACITY (%)			
POWER CLASS			нс	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
19 <u><</u> 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).

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.

This Executive Order hereby supersedes Executive Order U-R-034-0266 dated February 17, 2011.

Executed at El Monte, California on this

_ day of June 2011.

Annette Hebert, Chief

Mobile Source Operations Division

Motorenfabrik Hatz

Nonroad CI

Attachment

page 1 of 1

Engine Model Summary Template

E0 # U-R-034-0266-1 5/31/2011

Engine Family	1.Engine Code	2.Engine Model	3.ВНРФЕРМ (САЕСТОСС)	4.Fuel Plate: mm.&troke @ peak HP (for dieseloei)}	5,Feel Park; (bs/Ar) @ peak HP (br diesels only)	6.Torque @ RPM (SEA Gross)	7.£telRate: mmåtroke@peak torqte	8.F tel Bate: (0×At)@peak brq te	9.BmBs for Cortrol Device Per SAE J 1930
BHZXL1.38TV2	N/A	49/35T	41,0@3000	28,5	5,8	<u>୫</u> େ@1800	29,5	3.8	DI/TC/EM
BHZXL1.38TV2	N/A	4W35T	39,4@2800	28,5	5,3	90@2000	30,0	4,3	DI/TC/EM
BHZXL1.38TV2	N/A	40035T	37,3@3000	24,5	5,2	87@1800	29,0	3,7	DI/TC/EM
BHZXL1.38TV2	N/A	4W35T	36,9@2950	24,5	5,1	87@1800	29,0	3,7	DI/TC/EM
BHZXL1.38TV2	N/A	4W35T	36,9@2900	24,5	5,0	87@1800	29,0	3,7	DI/TC/EM
BHZXL1.38TV2	N/A	4w/35T	36,2@2850	24,5	5,0	87@1800	29,0	3,7	DI/TC/EM
BHZXL1.38TV2	N/A	4W35T	36,2@2800	24,5	4,9	86@1800	28,5	3,6	DI/TC/EM
BHZXL1.38TV2	N/A	4\W35T	35,4@2750	24,5	4,8	84@1800	28,0	3,6	DI/TC/EM
BHZXL1.38TV2	N/A	4W35T	35,1@2700	24,5	4,7	81@1800	27,5	3,5	DI/TC/EM
BHZXL1.38TV2	N/A	4W35T	34,6@2650	24,5	.4,6	80@1800	27,0	3,4	DI/TC/EM
BHZXL1.38TV2	N/A	4\w35T	34,2@2600	24,5	4,5	78@1800	26,5	3,4	DI/TC/EM
BHZXL1.38TV2	N/A	4W35T	33,8@2550	24,5	4,4	78@1800	28,0	3,3	DI/TC/EM
BHZXL1.38TV2	N/A	4\/\/35T	33,3@2500	24,5	4,3	77@1800	25,5	3,3	DI/TC/EM