

MOTORENFABRIK HATZ

EXECUTIVE ORDER U-R-034-0175 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)
2008	8HZXL.722V90	0.722	Diesel	3000
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT	APPLICATION
	Direct Diesel Inje	ction	Pump, Compressor, Other In	ndustrial 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			E	XHAUST (g/kw-l	hr)		OF	PACITY (%	•)
POWER CLASS	STANDARD CATEGORY		HC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
8 ≤kW < 19	Tier 4	\$TD	N/A	N/A	7.5	6.6	0.40	N/A	N/A	N/A
		CERT			7.1	4.9	0.21			

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 Section 2424 (emission control labels), and 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.

Executed at El Monte, California on this ______ day of February 2008.

Annette Hebert, Chief

Mobile Source Operations Division

Engine Model Summary Template

Attachment

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Motorentabilk Hatz Novroad CI	7 T T T T T	75					AHa	Attachment	\$
Engine Family	1.Engine Code	Engline Family 1.Engine Code 2.Engine Model	3.BHP@RPM (SAE Gross)	4. Fuel Rate: 5. Fuel Rate: mrvstroke @ peak HP (ibs/hr) @ peak HP (for diesel only) (for diesels only)	5.Fuel Rate: (ibs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: bs/hr}@peak torque	8.Fusi Rate: 9.Emission Control lbs/hr)@peak torque Device Per SAE J1930
SHZXL 722V90	A/N	1D90 S/Z/V/W	14.7@3000	41,5	6'9	31,8@1800	42,5	4,3	विका
8HZXL 722V90	N/A	W/V/Z/S 06Q1	14,6@2950	41,5	6,8	31,8@1800	42,5	4,3	30.00
8HZXL,722V90	A/N	1D90 S/Z/V/W	14,5@2900	41,5	6,7	31,8@1800	42,5	4,3	The state of the s
8HZXL 722V90	N/A	1D90 S/Z/V/W	14,3@2850	41,5	9'9	31,1@1800	42	4,2	The state of the s
8HZxL.722V90	A/N	1D90 S/Z/V/W	14,2@2800	41,5	6,5	31,1@1800	42	4,2	
8HZXL.722V90	N/A	1D90 S/Z/V/W	14,1@2750	41,5	6,4	31,1@1800	42	4,2	
SKZALJZZV9C	N/A	1D90 S/Z/V/W	13,9@2700	41,5	6,2	31,1@1800	42	4,2	The state of the s
3HZXL.722V9f	N/A	1D90 S/Z/V/W	13,7@2650	41,5	6,1	31,1@1800	42	4,2	AND THE PROPERTY OF THE PROPER
84251,1222490	N/A	1D90 S/Z/V/W	13,5@2600	41,5	6,0	31,1@1800	42	4,2	
SHZXL /22V90	N/A	1D90 S/Z/V/W	13,4@2550	41,5	5,9	31,1@1800	42	4,2	
SHZZL 722V90	N/A	1D90 S/Z/V/W	13,1@2500	41,5	5,8	30,3@1800	41	4,1	2. mar (Prince APP) (APP) (APP
3HZXL.722V90	A/A	1D90 S/Z/V/W	13,0@2450	41,5	5,7	30,3@1800	41	4,1	. Italian desirate desirate desirate desirate del constitución de la c
HAZXL 722V90	N/A	1D90 S/Z/V/W	12,7@2400	41,5	5,6	30,3@1800	41	4,1	An a second and a
3MZXL 722V9c	N/A	1D90 S/Z/V/W	12,6@2350	41,5	5,4	30,3@1800	14	4,1	
2H-ZXL, 722V9G	N/A	WINZIS 0601	q 12,3@2300	41.5	5,3	30,3@1800	41	4,1	→