

MOTORENFABRIK HATZ

EXECUTIVE ORDER U-R-034-0174 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.722C90	0.722	Diesel	3000
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLIC	CATION
	Direct Diesel Injed	ction	Pump, Generator Set, Other Industr	rial 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	EXHAUST (g/kw-l	nr)		Of	PACITY (%	6)
POWER CLASS	STANDARD CATEGORY		HC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
8 ≤kW < 19	Tier 4	STD	N/A	N/A	7.5	6.6	0.40	N/A	N/A	N/A
		CERT			7.3	4.6	0.20			

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

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Engine Model Summary Template

Nonroad CI Engine Family 1.Engine Code 2.Engine Model (2003) PHZM. 722091: N/A 1090 S/ZV/W 14.7@3000	(N				4	4 Hort, mont	4	
d CI amily 1.Engine Code						3	ر ا	
amily 1.Engine Code					1			
	2.Engine Model	3.8HP@RPM N (SAE Gross)	4. Fuel Rate: 5. Fuel Rate: mm/stroke @ peak HP (lbs/hr) @ peak HP (for diesel only) (for diesels only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	8.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (bs/hr)@peak torqu	8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930
	1D90 S/Z/V/W 14.7@3000	14.7@3000	41,5	6,9	25,9@3000	41,5	6'9	Idd I
	1090 S/Z/V/W	14,6@2950	41,5	6,8	14,6@2950	41,5	6,8	Commence of the commence of th
- HZ3.1, 7220390 N/A	1D90 S/Z/V/W	14,5@2900	41,5	6,7	14,6@2900	41,5	6,7	A PAGE AND COMMENT OF THE COMMENT AND COMM
AHZXL 722690 N/A	1D90 S/Z/V/W	14,3@2850	41,5	6,6	14,6@2850	41,5	9'9	A MARIE CANADA DE TENTRE E E E E E E E E E E E E E E E E E E
3HZXL.722C90 N/A	1D90 S/Z/V/W	14,2@2800	41,5	6,5	14,6@2800	41,5	6,5	The state of the s
SHZXL.722C90 N/A	1D90 S/Z/V/W	14,1@2750	41,5	6,4	14,6@2750	41,5	6,4	er de de destada inclusió deben de mentre. Est manura a militaria hampinan
SHZXL.722C90 N/A	1D90 S/Z/V/W	13,9@2700	41,5	6,2	14,6@2700	41,5	6,2	TO THE REPORT OF THE PERSON OF
SHZXL 722C90 N/A	1D90 S/Z/V/W	13,7@2650	41,5	6,1	14,6@2650	41,5	6,1	- Villersamme, subtri-
8HZXL.722C90 N/A	1D90 S/Z/V/W	13,5@2600	41,5	6,0	14,6@2600	41,5	6,0	er regionsper spectrus, que sepapa de la manda, mangra per production de la constante de de la constante de de
SHZXL.722C90 N/A	1D90 S/Z/V/W	13,4@2550	41,5	5,9	14,6@2550	41,5	5,9	The same of the sa
BHZXL,722C90 N/A	1D90 S/Z/V/W	13,1@2500	41,5	5,8	14,6@2500	41,5	5,8	A ten anders generale (a vendende de Ache de Colenta de Option es de Ache de Colenta de
84ZXL 722G90 N/A	1D90 S/Z/V/W	13,0@2450	41,5	5,7	14,6@2450	41,5	5,7	TO HER PERSON AND A CONTRACT OF AND ADMINISTRATION ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION ADMINISTRAT
8HZXL.722590 N/A	1D90 S/Z/V/W	12,7@2400	41,5	5,6	14,6@2400	41,5	5,6	e transcribent e er e
8 HZNL,722G90 N/A	1D90 S/Z/V/W	12,6@2350	41,5	5,4	14,6@2350	41,5	5,4	
24Z01_722G90 N/A	1D90 S/Z/V/W	12,3@2300	41,5	5,3	14,6@2300	41,5	5,3	A LANGE OF THE PROPERTY OF THE
2942XL722C90 N/A	1D90 S/Z/V/W	12,1@2250	41,5	5,2	14,6@2250	41,5	5,2	TOTAL SERVICE TOTAL SERVICE SE
RHZDL722090 N/A	1D90 S/Z/V/W	11,9@2200	41,5	5,1	14,6@2200	41,5	5,1	
HEXL 7220sh N/A	1D90 S/Z/V/W	11,7@2150	41,5	5,0	14,6@2150	41,5	5,0	The state of the s
SHZXL.722C90 N/A	1D90 S/Z/V/W	11,4@2100	41,5	4,9	14,6@2100	41,5	4,9	
8HZXL.722C90 N/A	1D90 S/Z/V/W	11,1@2050	41,5	4,7	14,6@2050	41,5	4,7	efember himse stämmen degeleget ungengele som generale
8HZXL.722C90 N/A	1D90 S/Z/V/W 8 10,9@2000	10,9@2000	41,5	4,6	14,6@2000	41,5	4,6	- >
	1090 S/ZN/W 1090 S/ZN/W 1090 S/ZN/W 1090 S/ZN/W 1090 S/ZN/W 1090 S/ZN/W	12,3@2300 12,1@2250 11,9@2200 11,7@2150 11,4@2100 11,1@2050	41.5 41.5 41.5 41.5 41.5 41.5		5.3 5.1 5.0 5.0 4.9 4.7 4.6		14,6@2250 14,6@2250 14,6@2150 14,6@2100 14,6@2050 14,6@2000	14,6@2250 41,5 14,6@2250 41,5 14,6@2150 41,5 14,6@2100 41,5 14,6@2050 41,5