

MOTORENFABRIK HATZ

EXECUTIVE ORDER U-R-034-0166 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.667C83 0.667			Diesel	3000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Direct Diesel Injection			Pump, Generator Set, Other I	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			E	XHAUST (g/kw-l	ır)		OPACITY (%)			
POWER	STANDARD CATEGORY		нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
kW < 8	Tier 4	STD	N/A	N/A	7.5	8.0	0.40	N/A	N/A	N/A
		CERT			7.2	2.9	0.19			

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 8 day of January 2008.

Annette Hebert, Chief

Mobile Source Operations Division

Hachment + 122

				Attachment		P. 10 d		
Return to Templa	mplate	Engi	ne Model S	Engine Model Summary Template	plate			
Engine Family	1. Engine Code	2.Engine Model	3.8HP@RPM (SAE Gross)	4. Fuel Rate: 5. Fuel Rate: mm/stroke @ peak HP (bs/hr) @ peak HP (for diesel only) (for diesels only)	5.Fuel Rate: (bs/hr)@peak HP (for diesels only)	6.Torque @,RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8. Fuel Rate: 9. Emissic (bs/lr)@peak torque Device Per
8HZXL.667C83	ΝΆ	1D81S/Z/T/U 1.8	10.5@2100	37	4,3	26,2@2100	37	
SHZXL 667C83	ΑN	1D81S/Z/T/U	10,3@2050	37	4,2	26,5@2050	37	4,2
SHZXL.667C83	ΑN	U/L/Z/S18Q1	10,1@2000	37	4,1	26,5@2000	37	a accounting a distribution of programming a statement of manufacturing groups accounting format and accounting to the contraction of the contract
8HZXI, 667 C83	ΝA	10810	10,5@2250	35,5	4,5	24,5@2250	35,5	4,5
8HZXL.667C83	ΨŽ	1D81C	10,2@2200	35,5	4,4	24,4@2200	35,5	4,4
81-1ZXL 667 C33	Ą	1D81C	10,1@2150	35,5	4,3	24,7@2150	35,5	4,3
3HZXL.667C033	٧×	1D81C	9,8@2100	35,5	4,2	24,6@2100	35.5	4,2
814ZXL_667C83	Ϋ́Α	1D81C	9,6@2050	35,5	4,1	24,8@2050	35,5	4,1
8HZXL-667 C82	ΨŽ	10810	9,5@2000	35,5	4,0	25,1@2000	35,5	4,0
SHZXL 667 C83	Α×	1D81S/Z/T/U	9,9@1950	38	3,9	26,8@1950	36	3,9
3HZXL.667C93	NA	1D81S/Z/T/U	9,6@1900	98	3,8	26,8@1900	38	3,8
8HZXL.R67C83	ΑŅ	1D81S/Z/T/U	9,5@1850	38	3,7	27,1@1850	98	3,7
3HZXL 667 C93	۸×	1D81S/Z/T/U	9,1@1800	38	3,6	26,7@1800	36	3,6
8HZXL 667 C83	۸A	1D81S/Z/T/U	9,0@1750	9E	3,5	27,1@1750	98	3,5
8HZXL-667 C83	٧×	10815/2/77U	8,6@1700	36	3,4	26,6@1700	98	3,4
8HZXL-667 C83	٩Ž	1D81S/Z/T/U	8,3@1650	36	3,3	26,6@1650	98	3,3
8HZXL,667 C8:3	۸×	1D81S/Z/T/U	8,0@1600	36	3,2	26,5@1600	36	3,2
8HZXI_067.033	ΑN	1D81S/Z/T/U	7,8@1550	36	3,1	26,4@1550	36	3,1
3HZXL_667 CR3	۸N	1D81S/Z/T/U	7,4@1500	35,5	3,0	25,9@1500	35,5	3,0
8HZXI_667C83	NA	1D81C	9,4@1950	35,5	3,9	25,4@1950	35,5	3,9
3HZXL,667 C83	ΑN	1D81C	9,1@1900	35.5	3,8	25,3@1900	35,5	3,8
8HZXL.667C33	42	10810	9,0@1850	35,5	7,E	25,6@1850	35,5	3,7
3HZXI, 667 C83	NA	1D81C	8,7@1800	35,5	3,6	25,5@1800	35,5	3,6
9-12XL 667 C80	ΑΝ	1D81C	8,4@1750	35,5	3,5	25,4@1750	35,5	3,5
3HZXL.667.053	¥N.	1D81C	8,2@1700	35,5	3,4	25,4@1700	35,5	3,4
8HZXI.,667.C33	NA	1D81C	8,0@1650	35,5	3,3	25,7@1650	35,5	3,3
8HZXI, 667 C83	NA	1D81C	7,8@1600	35,5	3,2	25.6@1600	35,5	3,2
8HZXI_667C33	WA	1D81C	7,5@1550	35,5	3.1	25,5@1550	35,5	3,1

Attachment p. 20+2

Engin	
Template	
Return to	

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	9. Emis sion	Device Per	
	ak 8.FuelRate: 9.Emission	(bs/hr)@peak torque Device Per (3.0
STATE NAME	mm/stroke@peak	torque	35.5
	6. Torque @ RPM	(SEA Gross)	25.4@1500
U.T.C. TOKE	(bs/hr) @ peak HP	(for diesels only)	3.0
4. Tue Take:	mm/strake @ peak HP	(SAE Gross) (for diesel only) (for diesels only) (SEA Gross) torque (bs/	35.5
	3.BHP@RPM	(SAE Gross)	7 2@1500
		2.Engine Model	1D81C
		1. Engine Code	ΑN
		Engine Family	8H7XH 667C83