

MOTORENFABRIK HATZ GMBH & CO. KG

EXECUTIVE ORDER U-R-034-0114 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 system 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)
2006	6HZXL.462C40	0.462	Diesel	3000
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLIC	
	Direct Diesel Injec	etion	Pump, Generator Set	

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	OPACITY (%)					
POWER CLASS	STANDARD CATEGORY		HC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK	
kW < 8	Tier 2	STD	N/A	N/A	7.5	8.0	0.80	N/A	N/A	N/A	
		CERT			6.4	5.4	0.42				

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

30TH

day of November 2005.

Alien Lyons, Chief

Mobile Source Operations Division

Engine Model Summary Form

Motorenfabrik Hatz Manufacturer:

Engine category: Nonroad CI EPA Engine Famly: 6HZXL.462C40

1B40 T/U/W Mfr Family Name:

New Submission Process Code:

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9.Emission Control Device Per SAE J1930	790																-		· · · · · ·											ッ	
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8. Fuel Rate: (Ibs/hr)@peak torque	8,	4.7	4,7	4,6	4,5	4 0	4 (č	4,4	4	4,3	4,2	4,2	4,2	4,1	4,0	4	o e	8 0	8 6	3,7	3,6	9,6	3,5	3,4	e, e,	က က်	3,2	3,1	3,1	3'0	58
7.Fuel Rate: mm/stroke@peak torque	24	24	24	24	24	24	24,5	24,5	24,5	24,5	24,5	24,5	52	52	ĸ	53	1 23	8	1 2	52	15 2	72	52	53	13 2	ĸ	13 2	1 23	83	52	ኢ
6.Torque @ RPM (SEA Gross)	14,3(2)3600	14.503550	14.603500	14,7003450	14,9003400	15,0003350	15,2003300	15,300,3250	15,5@3200	15,602,3150	15,7693100	15,900,3050	16,0@3000	16,160,2950	16,360,2900	16,402850	16,50,2800	16,760,2750	16,8@2700	16,900,2650	17,000,2600	17,160,2550	17,202500	17,3602450	17,4002400	17,4@2350	17,5002300	17,5@2250	17,5002200	17,5@2150	17 4m2100
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	4.8	4.7	7.4	9,	4 .	4 , τ.	Α. Γύ	4.	4,4	4,3	4,2	4,2	4,2	4	0,4	0,4	3,9	3,8	3,8	3,7	3,6	3,6	3,5	3,4	3,3	3,3	3,2	3,1	3,1	3,0	9.0
A.Fuel Rats: mm/stroke @ peak HP (for diesel only)	24	74	77	25	24	24	24,5	24,5	24,5	24,5	24,5	24,5	123	52	83	ĸ	5 2	8	53	52	52	52	52	52	1 24	53	1 23	53	23	53	έ .
3.BHP@RPM (SAE Gross)	0 8603600	0.763550	0.763500	9,603450	9.603400	9.603350	9.503300	9.403250	9,403200	9,300,3150	9,2003100	9,260,3050	9,1003000	9,000,2950	9,000,2900	8,900,2850	8,862,2800	8,760,2750	8,602700	8,500,2650	8,402600	8,302550	8,102500	8,0002450	7,9002400	7.802350	7,602300	7,5002250	7,360,2200	7,1602150	6 9#97100
2.Engine Model	1BAN T/II//W	WW/VI // OF OF OF	10.40 L/J/W	1840 T/11/VW	1B40 T/U/W	1840 T/U/W	1B40 T/U/W	1B40 T/U/W	1B40 T/U/W	1B40 T/U/W	1B40 T/U/W	1B40 T/U/W	1B40 T/U/W	1840 T/U/W	1840 T/U/W	1B40 T/U/W	1B40 T/U/VW	1B40 T/U/W	1840 T/U/W	1B40 T/U/W	1840 T/U/VW	1B40 T/U/W	1B40 T/U/W	1B40 T/U/W	1B40 T/U/W	1B40 T/U/VW	1 R40 T/LIV/W				
1.Engine Code	ANA		X		4 /N	Z Z	ζ/N	A/N	A X	A/N	Y.V	A/N	Y/N	Ϋ́N	Ą,	Y.V	¥,	A/N	Ψ/X	A/N	¥.	N/A	Y/N	A	¥,X	¥,X	V	A/N	A/N	A/N	N/A

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[0, 0, 0, 0, 0, 4
1882
17,4@2050 17,3@2000 17,3@1800
2,9 2,4 4,4
1882
6,6@2000 5,9@1800
1840 T/U/V/W 1840 T/U/V/W 1840 T/U/V/W

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