

## MOTORENFABRIK HATZ

EXECUTIVE ORDER U-R-034-0190 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)
2009	9HZXL.462V40	0.462	Diesel	3000
	FEATURES & EMISSION		TYPICAL EQUIPMENT	Market Co.
	Direct Diesel Injec	ction	Pump, Compressor, Other Ir	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			1	EXHAUST (g/kw-h	nr)		OF	PACITY (%	6)
POWER	STANDARD		нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
kW < 8	Tier 4	STD	N/A	N/A	7.5	8.0	0.80	N/A	N/A	N/A
		CERT			6.3	5.4	0.49	19		

BE IT FURTHER RESOLVED: That certification to the standards in 13 CCR 2423(b)(1)(A) -Table 1b listed above has been permitted pursuant to Endnote 2 of the same table.

**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 December 2008.

Annette Hebert, Chief

Mobile Source Operations Division

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Vorwood	CI		-			(J			
Return to Template	ate	Engi	ne Model	Engine Model Summary Template	nplate				
Dog w Speeds 3	Engine Code	2 Engine Model	BAR GRADE	EXCEPTION BEAUTY OF DESIGNATION OF CHESTION OF CHES	Contraction of Contra	Day & wholey	waddecorne waddecorne any set s	CONTRACTOR STANDARD NOT WELL BELL STANDARD OF STANDARD ST	25574 4085 02 42 14 49 6
40,000	14/14	Bao Trunder 25	13 9.8@x600	24	4.00	17,5 (BZ250	3	2,1	TOG
E400	14.714	ID-ID T/U/V/W	9,7@0440	4	47	17.5@2250	N	3.4	-
10000	PATA	MANUFAL CHRIS	9,7@3500	N/ 4	4,7	17.5@225d	200	3.1	
5.4	200	M/A/11/1 0891	9,000460	24	2.0	97.5@2250	25	10	
The state of	WAR	WIND DEED	9.0(\$3.400	274	45	\$7,5@2250	25	3.4	_
0.000	W/W	1B40 770/0/W	9,000,000	24	4,5	17,682250	25	2,4	
Carlotter.	19/9	WALL LINE	00008976	24.5	200	17.6 @2250	26	3.5	
100000	4/4	1840 T/UV/In	9,4(30260	24.0	4,4	17.5@2250	26	3.4	
Stroken .	AUA	Medicility Obdi	9,4633200	24.5	4,4	17,6 @2250	8	3.1	
F-040	10.0	MANUAL OPEN	OSIDBER.	474.55	45	17,5@2250	33	3.1	
41.40	11,000	MANDAG GHBL	92(83100	24,5	4.7	17.6 @2260	28	3.3	_
The Tark	2013	WANTED OF GE	8.2@006d	24.5	410	17.5@2250	28	143	
4000	1,00	search/1, 04-5v	0.000/01.0	5	t	125/92250	*2	1.0	
1.00	SUD.	MANUTA OPER	0,000,000	25	4.1	17,5(82250	13	3.4	
Carried P	WITH	WARRY DEBY	0.0000000	25	4.0	17.5 @2260	28	3,1	- 15
A. 1641	347.4	MANUTURE.	0.002000	28	4,0	17,5@2250	28	3.4	
2	3416	SPACE LANGE	8.8 @2800	N	3.0	17,5(\$2200	26	2.1	
100 00	40.00	TB40 TRUVAM	8,7(02700	N	22 26	17.6@ZZ50	26	3.4	
10 - C	40.00	READ TALLANDS	6,662700	22	3,8	17.5@2250	28	3,1	
100	1611.4	IBAD TJUNAY	8.5@2e50	Si.	3,7	0922899741	4	3.4	
- Kry rath	#1/A	MANANCE CHIEF	0,4@2600	22	3,0	17,5@2250	24	3.3	
大きな	6774	IDAD TAUA/M	8.3@2550	28	30	17.5@2250	22	3.5	
1.46.1447	UPI	1840 7,000/66	8,1,92500	22	60	17.5@2250	28	3,1	
20,000	400	MANAGE CHAR	00000000	28	3.4	17.6@2250	26	2.5	
from.	16/2	MUNITY CIVIL	7,982,400	B	83	17.5@2250	28	3 -	
10000	4/1/2	#MANUAL 0541	7,8 @2360	13	62 63	17.5@ZZ200	25	3.5	
+ 54	No. 12	3840 TX0578	7.0@2300	26	10	07.5 @2250	×	3.7	
	40.4	#/WIV1 OF BE	7,6 @2250	R	3.1	17,5 @2250	8	3.1	-
	200	White care	7 3/82200	N.	60	17.5@2200	25	-	· ·

Minterestablik Haz Attachment U-R-034-0192

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Return to Te	raplate	Eng	ine Model	Summary Template	nplate				
Day of that	5 Engine Code	Z Engine Mydel	SALESCANIE CALCOLAR	Great @ section of	Charles of the state of the sta	ETHORP & NAME (CANGING)	7 / HI Fab maktoe@peak bique	(BANGPARQ)	25 F 2VS F4 ROMO C4 F0 F0 F0 F0 F0 F0
CHC14-11740	76/46	1840 Trub/Aw	7,102150	226	3.0	17,5(\$2150	26	3.0	700
APACTOR TO	AUA	MANUAL DEST	0,9432100	228	2.9	17,5 (\$2 100	28	2,9	_ ;
Quality 1, 140	N/A	18-90 T/UN/AR	0.000000	26	2.9	17,482060	25	10,10	0
1 1 1 ( 1 ( 1 ( 1 ( 1 ( 1 ( 1 ( 1 ( 1 (	36/A	A MVVIIVE CHIEF	/w 4-1 o,d@2000	28	2.8	17,4@2000	25	19	-