

MOTORENFABRIK HATZ

EXECUTIVE ORDER U-R-034-0200 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.722C90	0.722	Diesel	3000
SPECIAL	FEATURES & EMISSION		TYPICAL EQUIPMENT	e Director e de la composición della composición
	Direct Diesel Inje	ction	Pump, Generator Set, Other	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			I	EXHAUST (g/kw-h	ır)		OF	PACITY (%	6)
POWER	STANDARD		нс	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	199		

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

Newson C	Number Cl			Arton	Attachment	0	-		U-R-034-
Return to Template	Osplate	Eng	ine Model	Engine Model Summary Template	nplate				
42	1 Engine Code	State 1 and 1 Engine Code 2 Engine Node	33HF@R5W GAEORKS	sanction g yearst (Scidentist)	Starting Chang in practice Change in practice	\$ Tought @ AY II (\$46.00kg)	PRINTER PROPERTY.	B.F. bel FLIB 9 SERBLED CORDUS Charlofogiera Trajes Descri Pt J. SAE J. 1900.	9 the Australia
	104	12:40 5/25:40c U	*42,82000	517	0.0		413	6.9	DAI
	100	# sty/22 cods	14,6,82000	8,12	0.0	14.0 (\$2950	41.5	0.0	
	40%	11-90 E-27-other	14.5 (\$2000	40,14	2.0	14.6 @2900	41,5	5.0	
	100	10:30 SQUAR	14,382950	41	0.0	14.0 (\$2900)	41.5	8.0	
	20.00	INVOCES DEGLI	142@2900	61.18	0.5	14,6 (\$2800	41.5	6.5	
	1679	1000 9/2/1986	14,1@2750	41.5	9.0	14,6 (\$2750	41.5	4.0	
	400	That scholls	13.982700	45.14	0.2	14,6 (\$2700	415	6.2	_
	10.00	18/0/25 06/J)	13,7@2550	91.5	0.0	14.6@2660	41.5	0,1	
	4.5	THOS LOSSOM	13,5,62000	41,5	0'0	14.6 @2600	41.5	0.0	
	40.4	MANGE REAL	13.4@2550	61.00	0,0	14,6 @2550	61.5	8,0	
	24/40	1040 S.Z/UNIV	13,1@2500	4	9.0	14.6 (\$2500	41.5	0.0	
	277	1090 SCAMM	13,062460	5 4	5,3	14.6(8)2460	5	5.7	
	4/7	1000 BCN/M	12,7 @2400	41.5	0,0	14.6@2400	5.14	0.0	_
	1910	HONO SKYNAM	12,6(\$2350	41.5	4.0	14,6482350	41.5	5,4	
	*2	M/Y255 06/31	12,3 @2300	41.5	6.0	14.0482300	6.15	6.3	_
	45.00	10/10 5/25/Mil	12,182350	41.5	25	14.0 (\$2250	87.4	5,2	
	4,77	1000 s.Chille	11,082200	41.5	+ 6	14.5 (\$2202	6.15	. 0	
	40.00	3000 S.CAME	11,7@2150	41,5	0.8	14,6 @2160	41,5	0.0	-
	10.7%	4000 E/ZVAN	11,4(\$2100	41.5	9.0	14.6 (\$2100)	41.5	4.	-
	44.5	1000 tc20vier	11,1(\$2050	41.5	4.7	14.6 @2050	41,0	1.4	-