

## MOTORENFABRIK HATZ

EXECUTIVE ORDER U-R-034-0194 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.413V41	0.413	Diesel	3000
	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT	APPLICATION
	Direct Diesel Inje	ction	Compressor, Other Indus	strial 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-h	ır)		OF	PACITY (%	6)
POWER	STANDARD		нс	NOx	NMHC+NOx	СО	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	1555		6.4	6.4	0.57			144

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

Return to Tempdate

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Attachment p. 1 et 3 Engine Model Summary Template

	1 Engine Code	1 Engine Code 2 Eligen Medel	SANGRAM	and the G parks (to their loss)	Col Opinit Coli	STUGH @ NES	MAKEDING SPORT	(b) of Radi. Silve State Control (b) (b) grade by (b) (b) (b) (b) (b)	SENSING COND. Device Per SAGUR
10 11 War	10.04	20 26 1641	0.00000000	22.5	3,0	16,318,1800	54.9	N	100
		1041 S.T. FAM.	8,0 (\$2950	22.5	3,7	16.3@r800	24.5	2.5	_
	*1	1041 9.0	7.9 (\$2900)	22.5	3.0	15,3421800	24.5	2.5	
	100	TD41.502	7,9 (\$2550	22.5	3,0	16,3(\$1900	8,4%	2,5	_
	10.4	26 140	7.8 @2000	\$2.5	3.5	10,342/1900	24,5	2.5	_
	31/14	10415/2	7.9(82750	22.5	3.4	16.3@1609	24.0	2.5	
	610	275 14-01	7.5 (\$2700	22.5	3,4	18,2 @1800	24.5	20.00	
	17.75	25 (54)	7,580,650	22.5	3.3	19,3(\$1600	0.245	2.5	
	64.00	District.	7,4400000	22.5	3,3	16,3(\$1800	20,00	2.5	
	E1.0	1001 502	7.882000	21.5	9.6	15,9@1800	23.5	2.4	
	19.50	25 11-71	7.8 (\$2950	21,5	3.6	15,94@1800	23.5	2.4	
	19114	15 ITI	7.5@2900	21,0	3,8	0081@481	23,5	4.5	
	2004	100 Sec	7.5 @2950	55.50	3.4	16,942/800	23.6	2.4	
	100	¥ +	7.5 (\$2800	21.5	3.4	15,987800	23.5	4.5	
	87.70	25 1531	7.5@2750	21.5	3.3	15.0421900	23.5	2.4	
	400	29 1100	7.482700	21.5	3.2	16,0(\$1800	23,6	2.4	_
	111/4	275 1143	7,26,2060	21.5	3.2	15.0 @ 18do	23.6	2.4	
	616	295 18-0	7.162000	21.5	3,4	15,9(2)1800	23.5	2.4	
	9150	541.87	7.8483300	\$10.2	3.8	15,5(0)1800	22	2,2	
	61.00	2/5 (19/2)	7.8 @3250	20.5	7,6	15,5 (\$1900	22	2,2	
	10.00	25 173	7,0,000,000	20.52	2,7	15.5@1800	8	200	
	10.00	275 1963	7,8033150	20.5	9.6	15.5@1900	22	2.2	
	16/20	275 100	7.5(8310)	20.5	3.5	15,5@1800	55	2,2	
	986	225 183.	7.5683050	20,5	3.6	15.5@1800	ŭ	2.2	
	200	Del 15/2	7.583000	20.5	3.4	15.5(2)1800	2	2,2	_
	Barb.	24 11-1	7.5 (\$2000)	20.5	9'6	15.5(21800	12	2.2	
	60.0	276 1440	7,5@2000	20.5	3.3	15.5 @ 1900	2	2,2	
	Apple	25 110	7,482850	20,5	23	16.5@1900	22	2.2	OR .
	State	27, 190	7,462800	202	66	10,5@1800	22	64.	-

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Nonycad CI

Engine Model Summary. Template

5 5	22 DOI	2,2	2.2	2,2	2.2	2,2	2.2	2.2	2.2	2.2	C6.C4	2.2	2.2	2,2	2.2	2,2	2,1	2,1	2,1	2,1	2.1	2.1	2.7	2.1	2.1	2,1	2,1
AMANDAGOUR COUR	N	22	22	555	N	22	22	22	22	22	22	22	22	22	22	22	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20,5	20.5	20,5	20.5
STREET BATTE	16,5(\$1800	15.5@1900	15.5@1800	15.5@1800	15.5@1800	15.5@1800	15.5@1900	0081@3593	16.5@1900	15,5@1800	15.5@1800	15,5@1800	14.5@1800	15,5(0)1800	15.5(2/1800)	15,5(0,1800)	14,982/800	14,3(\$1800	14,8/21800	14,8/8,1800	14,5 grebo	14,8@1800	14.0-01000	14.8@1800	14.8@1800	14.8 (\$1800	14.8@1800
SAND SPARS	3,1	5.4	3,0	3,0	2,9	5.0	80,00	2.7	5.5	2,6	5.6	2,5	2.6	4	2.3	2,3	3.6	3,6	60	4.0	5.4	3.3	6.5	3.3	3.2	3.2	3.4
ACT NET TRANS.	20,5	20.5	20,5	20.5	20.5	20.5	20.5	20.5	20,5	20,5	20.05	20.5	20.5	20.5	20.0	20.5	10.0	19,5	10.5	10,5	40.5	10,6	20.0	20,0	200	20.0	20.0
SATGRED CATGRED	7.2@2750	7,1@2700	7,0,02000	0.992500	6,762550	6.7 (\$2500)	0,0492400	0,4@0400	0.3 @2366	6,2 (6,200	0.062250	5,0(\$2200	5.8002190	5.6 (\$2.100	0.5@2050	5.4(\$2000	7.0083300	5.4@0250	5,4@3200	5,4@3150	5.4@0100	5,4@3050	5.490000	0.8 (\$2500	9.3 @2900	0.7 (\$2950	6.7 (\$2800
Engine Model	225 1401	25 190	75 175	275 14-0	241 8/2	295 LHJ	25 (45)	275 1753	295 160	144 872	26 151	T41 14Th	26 163	25 174	28 141	10-11 S.22	1 Pain	Steal	15-212	TDATE	31441	10410	30430	10410	15416	10410	PENNC.
1 Engine Code, 2 Engine Model	11.0	167.00	14/4	Park	Aira	PASSA	NON	75.4	49.00	25.00	14/4	1404	16.6	2000	HOW	4	12.5	200	2.0	1000	2	4/16	MOA	AUDI	71(n	11/10	50.00
Spire Length	A 45 - 15																										

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Somrad	J				<b>≠</b> 1	3	11		
Return to Template	nplate	Eng	ne Model	Engine Model Summary Template	nplate				
- A	1 Engline Code	Fagine Code 2 Engine Materi	23HPERSH	Life Han marking & system (to describing	Strether (but o @ put x?) (but dent out)		Pytel Rate max type @per & pages	distribute particular pr	Sense Per GAR J 930
	AUT.	31736	0,4@2860	20,0	3.0		20,5	2.7	
All the	60.0	15410	6,3 @2600	200	200	14.8@1900	20.5	2.4	
-01110	18,00	20430	0.2002550	20,0	2,8	14,6@1800	20,5	60	
	14.00	17-450	6,2(8,2500	20,0	2.9	14,8@1920	20.0	2.4	
Second.	44.0	154rc	6.0 (\$2.498	20.00	2.7	14,8@1800	20,6	2,9	
114,411	1205	IBAIC	8,0000400	20.0	2.7	14.8@1800	5,05	5.4	
412081	12.4	ibaic	5,0 (\$2500	20.02	5.6	14,8@1800	20,5	2.1	
	4.44	Thank	5.6@2300	20.0	2.0	14.8@1800	30.5	2.1	
	469	10410	5.5 @2250	20,0	2.5	14.9@1800	20.5	2.1	
7.	1000	50410	5.5 (\$2200	20.02	2.5	14,8@1800	20.5	2.1	
-	*****		. 4-000440	000	2.4	An Ansatonna	2014	2.4	

	Return to Template	emplate	Engl	ne Model	Engine Model Summary Template	nplate				
Name   State   Congression   20.0   State	100		Charles Made	218HP@RSH CAZDINGO	A PAPER MATANA E SAM TA (Extraction)	Strether (but o @ put x) (but dent out	CANGERO	77tel fab. an. spoudpea. pige	deringen oge	9 SENSETE COSTON Describes SAR J 1930
Fig.   Fig.   Congress   Cong.   Co		1000	31536	0,4@2860	20,0	3.0	14,8(\$1900	20,5	2.1	
No.	*	60.0	15410	6,3 @2600	902	200	14.8(21900	20.5	2.4	
Name	41114	126/00	20435	0.202550	20.0	2,8	14,8@1800	20,5	60	
No.   Control   Congruent   No.   Congruent		14.44	117-450	6.2 @2500	20,0	2.9	14.8@1800	20.0	2.3	
No.	The Great	54.5	1541C	6.0 (\$2.468	0.05	2.7	14,8(\$1800	20,02	2,3	
No.	117,415	12/5	IBAIC	8,0000400	20.0	2.7	14.8@1800	5,05	5.0	
Company   Comp	412081	15.0	ibaic	5.0 (\$2300	20.02	5.6	14,9(8)1800	20,5	2.1	
Main   Tear   Saggrade   So   Sa   Halling		45/55	That	5.6 @2300	20.0	2.0	14,8@1800	30.5	2.1	
		465	10411	5.5 @2250	20,0	2.5	14.9@1900	20.5	2.1	
NA 15-11 5,482150 200 2,4 NA 15-11 5,582100 200 2,0 1- 15-15 5,682100 200 2,0 1- 15-15 5,082100 200 2,0 1- 15-15 5,0821000 200 3,0	7	10.00	\$D41C	5.5 @2200	20.02	2.5	14,8401800	20.5	2.1	
No. 10-410 62-80-400 20.0 2.9 10-410	100	PULA	STATE	5,4@2150	20.0	2.4	14.8(21800	20.5	2.1	
5.1 goodo 20.0 2.3	111 114	255.0	211000	6.262100	50.0	2.3	14.8(2)1800	20,6	2,3	
5,0(\$0000 20,0 2.2		à	10415	6,1 0,000	26.0	2.3	14.5 (\$1800	20.5	2,1	
		1.2	11545C 3. 1	6,019,000	20.0	74	1-1,8 @1800	20,5	2,1	