

MOTORENFABRIK HATZ

EXECUTIVE ORDER U-R-034-0155 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.347C30	0.347	Diesel	3000
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLIC	ATION
	Direct Diesel Injec	ction	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			ŧ	XHAUST (g/kw-l	nr)		OF	ACITY (%	b)
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
kW < 8	Tier 4	STD	N/A	N/A	7.5	8.0	0.80	N/A	N/A	N/A
		CERT			5.8	4.9	0.60			-

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

Annette Hebert, Chief

Mobile Source Operations Division

day of November 2007.

U-R-034-0155

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Engine Family	1. Engine Code	2 Engine Model	3. BH P@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: P(bs/hr)@geak HP (fordieselsonly)	6. Torque @ RPM (SEA Gross)	7.Fuel Rate; mm/stroke@peak torque	8.Fuel Rate: 9.Emission (bs/h)@peak torque Device Per	9.Emission Device Per (
3HZXL.347C30	Ν̈́Α	1830 / V	6,7@3600	16	3,2	9,8@3600	16	3,2	Z
81-1ZXL_347C30	NA	1B30 / V	6,7@3550	16	3,2	9,9@3550	16	3,2	-
8HZXL 347C30	ΑN	1B30 / V	6,6@3500	16	3,1	10,0@3500	16	3,1	ARREST ANALYSIS (MONTHER PARK)
8HZXL_347C30	NA	1B30 / V	6,6@3450	16	3,1	10,1@3450	16	3,1	Add Marks dal compression of the
9-12XL 347 C30	۸N	1830 / V	6,6@3400	16	3,0	10.2@3400	16	3,0	CONTRACTOR OF ANTIBODA CONTRACTOR OF CONTRAC
8HZXL 347C30	NA N	1B30 / V	6,5@3350	16	3,0	10,3@3350	16	3,0	a plin. Frillion Northwest of A V Artistance of A vice
3HZXL 347C30	A'A	1B30 / V	6,5@3300	16	2,9	10,4@3300	16	2,9	E A FEMALUATURA DE PARENTE ETT DA TH
8HZXL 347C30	۸×	1B30 / V	6,5@3250	16	2,9	10,5@3250	16	2.9	Aprillinina aprilinini V
3HZXL 347C30	۸A	1B30 / V	6,4@3200	16	2,9	10,6@3200	16	2,9	
8HZXL 347C30	Ą	1B30 / V	6,4@3150	16	2,8	10,7@3150	16	2,8	A CONTROLOGICA
3HZXL.347C30	NA	1830 / V	6,3@3100	16	2,8	10,8@3100	16	2,8	AT IN QUARANTES CAPPARATES ARRANGE
8HZX1_347C30	WA	1B30 / V	6,3@3050	16	2,7	10,8@3050	16	2,7	An de la far fee dans
3HZXL.347C30	WA	1B30 / V	6,2@3000	16,5	2.8	10.9@3000	16,5	2,8	WAR HIS SAME VALUE OF THE PROPERTY OF THE PROP
8HZXL 347C30	۸A	1B30 / V	6,2@2950	16,5	2,7	11,0@2950	16,5	2,7	1
3HZAL.347C30	ΨŽ	1B30 / V	6,1@2900	16,5	2,7	11,1@2900	16,5	2,7	
8HZXL.347C30	WA WA	1B30 / V	6,0@2850	16,5	2,6	11,2@2850	16,5	2,6	-
0HZX 347 C30	۸N	1B30 / V	6,0@2800	16,5	2,6	11,2@2800	16,5	2,6	
9HZXL_347C30	ΑN	1B30/V	5,9@2750	16,5	2,5	11,3@2750	16,5	2,5	\$14.51.1 ANAM & WAR. 1.1.500
8HZXL_347C30	۸N	1830 / V	5,8@2700	16,5	2,5	11,4@2700	16,5	2,5	ah Will and of Amount of the A
SHZX 347C30	۸۸	1B30 / V	5,8@2650	16,5	2,4	11,5@2650	16,5	2,4	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
3HZXL.347C30	Υ×	1B30/V	5,7@2600	16,5	2,4	11,5@2600	16,5	2,4	eng.m: Adequate .
8HZXL 347C30	¥ Ž	1B30 / V	5,6@2550	16,5	2,3	11,6@2550	16,5	2,3	
8HZXL.347 C30	ΑŅ	1B30 / V	5,5@2500	16,5	2,3	11,6@2500	16,5	2,3	ARTICLE OF PRINCIPLE ARTICLES CORE
8HZXL.347C30	ď Ž	1B30 / V	5,4@2450	16,5	2,3	11,7@2450	16,5	2,3	
8HZXL, 947C30	ΑΝ	1B30 / V	5,4@2400	16,5	2,2	11,8@2400	16,5	2,2	Marie
8HZXL_347C30	ΝΑ	1B30 / V	5,3@2350	16,5	2,2	11,8@2350	16,5	2,2	AND AND ADDRESS OF THE PARTY OF
8HZXL 347 C30	ΑM	1B30 / V	5,2@2300	16,5	2,1	11,9@2300	16,5	2,1	VALUE AND THE TAX TO THE TAX DESCRIPTION OF THE TAX OF THE TAX OF
8HZXL_347C30	AN	1B30 / V	5,1@2250	16,5	2,1	11,9@2250	16,5	2,1	ANALYSIS OF A STATE OF THE STAT
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Engine Model Summary Template

Engine Family 1.Engine Code	1.Engine Code	2. Engine Model	3. BH P@RPM (SAE Gross)	4.Fuel Rate: 5.Fuel Rake: mm/stroke @ peak HP (b.s/h) @ peak HP (for diesel only) (for diesels only)	5.Fuel Rate: P(bs/hr)@peak HP (fordiesels only)	6.Torque @RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8. Fuel Rate: 9. Emission (bs/hr)@peak lorque Device Per f	9.Emission 38 Device Per 9
3HZXL 347 C30	ΝĀ	1B30 / V	5,0@2200	16,5	2,0	12.0@2200	16,5	2,0	JOC
3HZXL_347C30	NA	1B30 / V	4,9@2150	16,5	2,0	12,0@2150	16,5	2,0	
3HZXL.347C30	WA	1B30 / V	4,8@2100	16,5	1,9	12,0@2100	16,5	1,9	
8HZXL 347C30 NA	WA	1B30 / V	4,7@2050	16,5	1,9	12,1@2050	16,5	1,9	
SHZXL 347C30 NA	ΝΆ	1B30 / V	4,6@2000	16,5	1,8	12,1@2000	16,5	1,8	->