

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	9HZXL3.43C42	3.432	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Exhaust Gas Recirculation			Pump, Generation 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):

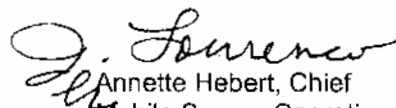
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
37 ≤ kW < 56	Tier 4 interim	STD	N/A	N/A	4.7	5.0	0.30	N/A	N/A	N/A
		CERT	--	--	4.6	2.1	0.11	--	--	--

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 12th day of December 2008.


 Annette Hebert, Chief
 Mobile Source Operations Division

Motorenfabrik Hatz
Nonwood CI

Attachment P. 2 of 2

U-R-034-0205

Engine Model Summary Template

Brand Part No.	1 Engine Code	2 Engine Model	3 J1939PM		4 J1939PM		5 J1939PM		6 J1939PM		7 J1939PM		8 J1939PM		9 J1939PM		10 J1939PM		11 J1939PM		
			max RPM	max Torque	max RPM	max Torque	max RPM	max Torque	max RPM	max Torque	max RPM	max Torque	max RPM	max Torque	max RPM	max Torque	max RPM	max Torque	max RPM	max Torque	max RPM
02C132034C	NA	4L43C	57.6@2100	49.0	5.9	139@2100	49.0	5.9													
42C132034C	NA	4L43C	55.6@2100	49.0	5.7	140@2100	49.0	5.7													
42C132034E	NA	4L43C	54.8@2000	49.0	5.8	141@2000	49.0	5.6													
22E132034C	NA	4L43C	53.5@2000	49.0	5.9	141@2000	49.0	5.6													
22E132034E	NA	4L43C	52.5@1900	49.0	6.2	142@1900	49.0	6.2													
02E132034C	NA	4L43C	51.3@1900	49.0	6.1	142@1900	49.0	6.1													
62E132034C	NA	4L43C	50.3@1800	49.0	6.0	143@1800	49.0	6.0													
02E132034E	NA	4L43C	49.4@2000	43.5	6.8	129@2000	43.5	6.8													

DDI, EGR

