ISUZU MOTORS LIMITED

EXECUTIVE ORDER U-R-006-0298 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	9SZXL02.2VNC	2.2	Diesel	5000	
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		TYPICAL EQUIPMENT APPLICATION			
Indirect Diesel Injection			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 STANDARD		EXHAUST (g/kW-hr)					OPACITY (%)		
POWER	CATEGORY		HC	NOx	NMHC+NOx	СО	PM	ACCEL	LUG	PEAK
19 ≤ kW < 37	Tier 4 - Interim	STD	N/A	N/A	7.5	5.5	0.30	N/A	N/A	N/A
		CERT			6.2	0.8	0.10			

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 September 2008.

Annette Hebert, Chief

Mobile Source Operations Division

ATT ACHMENT Engine Model Summary Template

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9.Emission Control Jevice Per SAE J193	EM, IDI	EM, IDI
8.Fuel Rate: 9.Emission Control (Ibs/hr)@peak torqueDevice Per SAE J193	•	1
7.Fuel Rate: mm/stroke@peak torque	1	
6.Torque @ RPM (SEA Gross)	•	
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	14.6@1800	14.3@1800
4.Fuel Rate: 5.Fuel Rate: mm/stroke @ peak HP (bs/hr) @ peak HP 6.Torque @ RPM (for diesel only) (for diesels only) (SEA Gross)	36.5@1800	35.8@1800
3.BHP@RPM (SAE Gross)	35.3@1800	35.3@1800
Engine Family 1. Engine Code 2. Engine Model	BV-4LE1	BV-4LE1 35.3@1800
1. Engine Code	4LE1NCVFA-01	4LE1NCVFA-02
Engine Family	9SZXL02.2VNC	9SZXL02.2VNC 4LE1NCVFA-02