California Environmental Protection Agency

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			FUEL TYPE	USEFUL LIFE (hours)			
2007	7ŠZXL02.2DNA	2.2	Diesel	5000			
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION				
Direct Diesel Injection			Loader, Excavator				

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 (%)		
			НС	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
19 ≤ kW < 37	Tier 2	STD	N/A	N/A	7.5	5.5	0.60	20	15	50
		CERT			6.8	3.5	0.56	8	10	15

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 January 2007.

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Annette Hebert, Chief Mobile Source Operations Division

Engine Model Summary Form

ATTACHMENT

U-R-006-0245

Manufacturer:Isuzu Motors LimitedEngine category:Nonroad CIEPA Engine Farrily.7SZXL02.2DNAMfr Family Name:NAProcess Code:New Submission

8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930	EM,DFI EM,DFI EM,DFI EM,DFI EM,DFI				
8.Fuel Rate: (lbs/hr)@peak torque	11.7@1600 11.6@1600 11.6@1600 11.6@1600 14.2@2000				
7.Fuel Rate: mm/stroke@peak torque	32.9@1600 32.7@1600 32.7@1600 32.7@1600 31.8@2000				
6.Torque @ RPM (SEA Gross)	108.4@1600 106.2@1600 106.2@1600 106.2@1600 102.0@2000				
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)		19.4@2600 16.2@2200 17.7@2400 17.0@2300 18.6@2700			
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)		33.5@2600 33.2@2200 33.2@2400 33.2@2300 31.0@2700			
3.BHP@RPM (SAE Gross)		49.1@2600 42.1@2200 45.6@2400 43.9@2300 47.0@2700			
2.Engine Model		CC-4LE2 CC-4LE2 CC-4LE2 CC-4LE2 BB-4LE2			
1.Engine Code 2.Engine Model		4LE2NABDB-01 4LE2NABDB-02 4LE2NABDB-03 4LE2NABDB-03 4LE2NABDB-01			