

ISUZU MOTORS LIMITED

EXECUTIVE ORDER U-R-006-0089 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-45-9;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system 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.

		DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)	
2002	2SZXL06.5FXA	6.5	Diesel	8000	
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT	PPLICATION	
	Direct Diesel Injec Turbocharger, Charge	ction, Air Cooler	Loader, Compresso	r, Excavator	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbons (HC), oxides of nitrogen (NOx), or non-methane hydrocarbons 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		EXHAUST (g/kw-hr)				OPACITY (%)			
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	СО	PM	ACCEL	LUG	PEAK
75 ≤ KW < 130	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50
		CERT		5.8				13	1	33

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 November 2001

R. B. Summerfield, Chief

Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: Isuzu Motors Limited

Engine category: Nonroad CI

EPA Engine Family: 2SZXL06.5FXA

Mfr Family Name: NA

Process Code: Running Change Mer. 27, 2002

ATTACHMENT

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EM,TC,CAC,DFI	EM,TC,CAC,DFI	EM,TC,CAC,DFI	EM,TC,CAC,DFI	EM,TC,CAC,DFI
41.7@1500	36.6@1500	36.6@1500	44.4@1600	44.4@1600
83.4@1500 83.4@1500	73.2@1500	73.2@1500	83.3@1600	83.3@1600
414.6@1500 414.6@1500	363.8@1500	363.8@1500	414.3@1600	414.3@1600
57.4@2200 49.6@1800	51.1@2200	43.8@1800	55.4@2100	53.7@2000
78.3@2200 82.7@1800	69.6@2200	72.9@1800	79.1@2100	80.5@2000
149.9@2200 138.5@1800	134.4@2200	121.2@1800	149.3@2100	147.9@2000
AA-6BG1T AA-6RG1T	AA-6BG1T	AA-6BG1T	AA-6BG1T	AA-6BG1T
6BG1XABFA-01	6BG1XABFA-03	6BG1XABFA-04	6BG1XABFA-05	6BG1XABFA-06
	AA-6BG1T 149.9@2200 78.3@2200 57.4@2200 414.6@1500 83.4@1500 41.7@1500 AA-6BG1T 138.5@1800 82.7@1800 49.6@1800 414.6@1500 83.4@1500 41.7@1500	AA-6BG1T 149.9@2200 78.3@2200 57.4@2200 414.6@1500 83.4@1500 41.7@1500 AA-6BG1T 138.5@1800 82.7@1800 49.6@1800 414.6@1500 83.4@1500 41.7@1500 AA-6BG1T 134.4@2200 69.6@2200 51.1@2200 363.8@1500 73.2@1500 36.6@1500	AA-6BG1T 149.9@2200 78.3@2200 57.4@2200 414.6@1500 83.4@1500 41.7@1500 AA-6BG1T 138.5@1800 82.7@1800 49.6@1800 414.6@1500 83.4@1500 41.7@1500 AA-6BG1T 134.4@2200 69.6@2200 51.1@2200 363.8@1500 73.2@1500 36.6@1500 AA-6BG1T 121.2@1800 72.9@1800 43.8@1800 363.8@1500 73.2@1500 36.6@1500	AA-6BG1T 149.9@2200 78.3@2200 57.4@2200 414.6@1500 83.4@1500 41.7@1500 AA-6BG1T 138.5@1800 82.7@1800 49.6@1800 414.6@1500 83.4@1500 41.7@1500 AA-6BG1T 121.2@1800 72.9@1800 43.8@1800 363.8@1500 73.2@1500 36.6@1500 AA-6BG1T 149.3@2100 79.1@2100 55.4@2100 414.3@1600 83.3@1600 44.4@1600