California Environmental Protection Agency AIR RESOURCES BOARD	ISUZU MOTORS LIMITED	EXECUTIVE ORDER U-R-006-0210 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)
2005	5SZXL06.5FTA	6.5	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Direct Diesel Injection, Turbocharger	Crane, Loader, Compressor, 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
75 ≤ kW < 130	Tier 2	STD	N/A	N/A	6.6	5.0	0.30	20	15	50
		CERT	--	--	6.3	1.3	0.25	6	3	18

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 16TH day of December 2004.

Allen Lyons, Chief
Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: **Isuzu Motors Limited**

Engine category: **Nonroad CI**

EPA Engine Family: **5SZXL06.5FTA**

Mfr Family Name: **NA**

Process Code: **New Submission**

ATTACHMENT

U-R-006-0210

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
6BG1TABFC-01	BB-6BG1T	131.0@2200	70.0@2200	51.3@2200	402.7@1400	81.6@1400	38.1@1400	EM,TC,DFI
6BG1TABFD-01	BB-6BG1T	170.7@2200	89.8@2200	65.9@2200	454.3@1800	96.1@1800	57.7@1800	EM,TC,DFI
6BG1TABFD-02	BB-6BG1T	164.4@1950	94.1@1950	61.2@1950	454.3@1800	97.1@1800	58.3@1800	EM,TC,DFI
6BG1TABFD-06	BB-6BG1T	144.2@2000	84.1@2000	56.1@2000	405.7@1600	88.4@1600	47.2@1600	EM,TC,DFI
6BG1TABFD-07	BB-6BG1T	142.1@1950	84.1@1950	54.7@1950	405.7@1600	88.4@1600	47.2@1600	EM,TC,DFI
6BG1TABFD-08	BB-6BG1T	165.9@2150	88.1@2150	63.2@2150	454.3@1800	97.1@1800	58.3@1800	EM,TC,DFI
6BG1TABFD-10	BB-6BG1T	149.8@2200	78.1@2200	54.7@2200	405.7@1600	88.4@1600	47.2@1600	EM,TC,DFI
6BG1TABFD-11	BB-6BG1T	163.7@2000	93.0@2000	62.0@2000	454.3@1800	97.1@1800	58.3@1800	EM,TC,DFI
6BG1TABFD-12	BB-6BG1T	131.0@2200	70.0@2000	51.3@2000	402.7@1400	81.6@1400	38.1@1400	EM,TC,DFI
6BG1TABFE-01	BB-6BG1T	167.8@2150	92.1@2150	66.1@2150	429.6@1800	88.7@1800	53.3@1800	EM,TC,DFI
6BG1TABFE-02	BB-6BG1T	141.5@1950	82.6@1950	53.7@1950	395.0@1800	86.1@1800	51.7@1800	EM,TC,DFI
6BG1TABFF-01	BB-6BG1T	131.0@2200	70.0@2200	51.3@2200	402.7@1400	81.6@1400	38.1@1400	EM,TC,DFI
6BG1TABFG-01	BB-6BG1T	170.7@2200	89.8@2200	65.9@2200	454.3@1800	96.1@1800	57.7@1800	EM,TC,DFI
6BG1TABFG-06	BB-6BG1T	144.2@2000	84.1@2000	56.1@2000	405.7@1600	88.4@1600	47.2@1600	EM,TC,DFI
6BG1TABFG-07	BB-6BG1T	142.1@1950	84.1@1950	54.7@1950	405.7@1600	88.4@1600	47.2@1600	EM,TC,DFI
6BG1TABFG-08	BB-6BG1T	165.9@2150	88.1@2150	63.2@2150	454.3@1800	97.1@1800	58.3@1800	EM,TC,DFI
6BG1TABFG-09	BB-6BG1T	144.8@2150	78.1@2150	56.0@2150	396.4@1600	82.4@1600	44.0@1600	EM,TC,DFI
6BG1TABFG-10	BB-6BG1T	149.8@2200	78.1@2200	54.7@2200	405.7@1600	88.4@1600	47.2@1600	EM,TC,DFI
6BG1TABFG-11	BB-6BG1T	163.7@2000	93.0@2000	62.0@2000	454.3@1800	97.1@1800	58.3@1800	EM,TC,DFI
6BG1TABFG-12	BB-6BG1T	159.9@2100	86.9@2100	60.9@2100	441.9@1800	94.4@1800	56.7@1800	EM,TC,DFI
6BG1TABFH-01	BB-6BG1T	170.7@2200	89.8@2200	65.9@2200	454.3@1800	96.1@1800	57.7@1800	EM,TC,DFI
6BG1TABFH-10	BB-6BG1T	149.8@2200	78.1@2200	54.7@2200	405.7@1600	88.4@1600	47.2@1600	EM,TC,DFI
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