

ISUZU MOTORS LIMITED

EXECUTIVE ORDER U-R-006-0221 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)				
2006	6SZXL07.8HXA	7.8	Diesel	8000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Exhaust Gas Recirculation			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	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)				OPACITY (%)			
POWER CLASS			нс	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
130 ≤ kW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.2	20	15	50
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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.

Alten Lyons, Chief

Mobile Source Operations Division

Eligille Model Summary Form

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Isuzu Motors Limited Nonroad Cl

6SZXL07.8HXA EPA Engine Family.

Engine category:

Manufacturer:

Mfr Family Name: NA

New Submission Process Code:

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7.Fuel Rate: 6.Torque @ RPM mm/stroke@peak 8.Fuel Rate: 9.Emission Control (SEA Gross) torque (lbs/hr)@peak torque Device Per SAE J1930	ECM,TC,CAC,DFI, EEGK	ECM,TC,CAC,DFI,	ECM,TC,CAC,DFI,	ECM,TC,CAC,DFI,
8.Fuel Rate: (lbs/hr)@peak torqu	84.6@1500	84.6@1500	72.0@1400	75.1@1400
7.Fuel Rate: mm/stroke@peak torque	169.0@1500	169.0@1500	144.0@1400	150.0@1400
6.Torque @ RPM (SEA Gross)	829.8@1500	829.8@1500	723.5@1400	753.8@1400
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	101.0@1900	102.3@2000	77.5@2000	84.5@2000
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	159.3@1900	153.4@2000	116.2@2000	126.7@2000
3.BHP@RPM (SAE Gross)	281.7@1900	284.4@2000	220.4@2000	240.2@2000
1. Engine Code 2. Engine Model	AH-6HK1X	AH-6HK1X	AH-6HK1X	AH-6HK1X
1.Engine Code	6HK1XDHAA-01	6HK1XDHAA-02	6HK1XDHAA-03	6HK1XDHAA-04