

ISUZU MOTORS LIMITED

EXECUTIVE ORDER U-R-006-0334 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)
2010	ASZXL09.8HXA	9.8	Diesel	8000
SPECIAL	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLI	CATION
Direct Dies Electroni	sel Injection, Turbocharg c Control Module, Exhau	er, Charge Air Cooler, ust Gas Recirculation	Crane, Loader, 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	EMISSION		EXHAUST (g/kW-hr)			OPACITY (%)				
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
225 ≤ kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT			3.6	0.9	0.15	16	6	27

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.

Annette Hebert, Chief

Mobile Source Operations Division

Engine Model Summary Template

U-R-006-0334

10/29/09

Engine Family	1.Engine Code	3.BHP@RPM Engine Family 1.Engine Code 2.Engine Model (SAE Gross)		4.Fuel Rate: 5.Fuel Rate: mm/stroke @ peak HP (lbs/hr) @ peak HP 6.Torque @ RPM (for diesel only) (for diesels only) (SEA Gross)	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	8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torqueDevice Per SAE J1930
ASZXL09.8HXA 6UZ1XDHAA-01	6UZ1XDHAA-01	ZXL09.8HXA 6UZ1XDHAA-01 AH-6UZ1X	362.1@1950	_	96.0@1950 127.5@1950 1058@1500 216.0@1500 108.1@1500	1058@1500	216.0@1500	216.0@1500 108.1@1500	ECM, TC, CAC, JPH, EGR TVJ
ASZXL09.8HXA 6UZ1XE	6UZ1XI	ЭНАА-02 АН-6UZ1X 348.7@	348.7@1800 2	202.0(121.3@1800	1033@1500	211.0@1500	@1800 121.3@1800 1033@1500 211.0@1500 105.6@1500	ECM, TC, CA _DFT, EGR TOT_
ASZXL09.8HXA	6UZ1XDHAA-03	AH-6UZ1X	362.1@2000	ASZXL09.8HXA 6UZ1XDHAA-03 AH-6UZ1X 362.1@2000 195.0@2000 130.1@2000 1058@1500 216.0@1500 108.1@1500	130.1@2000	1058@1500	216.0@1500	108.1@1500	ECM, TC, CAC, DPH, EGR