ISUZU MOTORS LIMITED

EXECUTIVE ORDER U-R-006-0402 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-14-012;

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)		
2015	FSZXL07.8QXA	7.790	Diesel	8000		
	FEATURES & EMISSION		TYPICAL EQUIPMENT			
Coole	nic Control Module, Turbo er, Electronic Direct Inject on, Diesel Oxidation Cata uction-Urea, Ammonia Ox	ion, Exhaust Gas lyst, Selective Catalyst	Excavator, Crane, Loader			

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), 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		NMHC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
130 ≤ kW ≤ 560	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.01	0.38	-	0.1	0.02			

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 October 2014.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

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ATTACHMENT

CARB EO. U-R-006- ○402 DATE: \○/○/\4

Engine Model Summary Template

Engine Family	Engine Code	Engine Model	BHP@RPM (SAE Gross)	Fuel Rate: mm/stroke @ peak HP (for diesel only)	lbs/hr @ peak HP (for diesels only)	Torque @ RPM (SEA Gross) ft-lbs	Fuel Rate: mm/stroke @peak torque	Fuel Rate: lbs/hr @peak torque	Emission Control Device Per SAE J1930
FSZXL07.8QXA	6HK1XDQAA -01	AQ-6HK1X	281.6@1900	153.4	97.2	797@1500	153.9	77.0	ECM,TC,CAC,DFI, EGR, DOC,SCR-U, AMOX
FSZXL07.8QXA		AQ-6HK1X	264.2@1900	144.2	91.4	774@1500	149.8	75.0	ECM,TC,CAC,DFI, EGR, DOC,SCR-U, AMOX
FSZXL07.8QXA	6HK1XDQAA -03	AQ-6HK1X	215.9@1800	126.1	75.7	693@1500	135.9	68.0	ECM,TC,CAC,DFI, EGR, DOC,SCR-U, AMOX