

ISUZU MOTORS LIMITED

EXECUTIVE ORDER U-R-006-0515

New Off-Road Compression-Ignition Engines Page 1 of 1

Pursuant to the authority vested in California 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-19-095;

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)				
2022	NSZXL03.0PTA	2.999	Diesel	8000				
SPECIAL	. FEATURES & EMISSION C	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION					
	c Control Module, Turbo ection, Exhaust Gas Ro Oxidation Cataly	ecirculation, Diesel	Excavator, Crane					

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 POWER CLASS	EMISSION				EXHAUST (g/kw-ł		OPACITY (%)			
	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
37 ≤ kW< 56	Tier 4 Final	STD	N/A	N/A	4.7	5.0	0.03	N/A	N/A	N/A
		CERT			4.1	0.2	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 on this <u>23rd</u> day of December 2021.

Allen Lyons, Chief

Emissions Certification and Compliance Division

Attachment: Engine Models EO #: U-R-006-0515 Family: NSZXL03.0PTA Attachment Last Revised: 11/29/2021

	Displacement -			Peak Power - Speed (rpm)	Peak Power - Fueling 60.3	Peak Power - Fuel Units mm3/stroke	Peak Torque	Peak Torque - Units Ib-ft	Peak Torque - Speed (rpm) 1500	Peak Torque - Fuel 60.1	Peak Torque -				Notes N/A		
											Fuel Units	OBD	GHG	Special			
	Liters	69.7	horsepower	2000									N/A	N/A			
															-		
														-	-		
															-		+
														-			+
																	+
																	1
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									-						+	+	+
	-					+			1					+	+	+	+
				Code Trim Config Displacement Units		Code Trim Config Displacement Units Peak Power Units	Code Trim Config Displacement Units Peak Power Units Speed (rpm)	Code Trim Config Displacement Units Peak Power Units Speed (rpm) Fueling	Code Trim Config Displacement Units Peak Power Units Speed (rpm) Fueling Fuel Units	Code Trim Config Displacement Units Peak Power Units Speed (rpm) Fueling Fuel Units Peak Torque	Code Trim Config Displacement Units Peak Power Units Speed (rpm) Fueling Fuel Units Peak Torque Units	Code Trim Config Displacement Units Peak Power Units Speed (rpm) Fuel Units Peak Torque Units Speed (rpm)	Code Trim Config Displacement Units Peak Power Units Speed (rpm) Fueling Fuel Units Peak Torque Units Speed (rpm) Fuel	Code Trim Config Displacement Units Peak Power Units Speed (rpm) Fueling Fuel Units Peak Torque Units Speed (rpm) Fuel Fuel Units	Code Trim Config Displacement Units Peak Power Units Speed (rpm) Fueling Fuel Units Peak Torque Units Speed (rpm) Fuel Fuel Units OBD	Code Trim Config Displacement Units Peak Power Units Speed (rpm) Fueling Fuel Units Peak Torque Units Speed (rpm) Fuel Fuel Units OBD GHG	Code Trim Config Displacement Units Peak Power Units Speed (rpm) Fueling Fuel Units Peak Torque Units Speed (rpm) Fuel Fuel Units OBD GHG Special