

## **ISUZU MOTORS LIMITED**

## **EXECUTIVE ORDER U-R-006-0512**

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	NSZXL02.2PXC	2.179	Diesel	8000					
SPECIAL	. FEATURES & EMISSION C	ONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION						
Air Coole	ic Control Module, Turk r, Electronic Direct Inje circulation, Diesel Oxida	ction, Exhaust Gas	Excavator, Loader, Lit	řt .					

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-ł		OPACITY (%)			
POWER CLASS	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	СО	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			3.6	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 on this <u>23rd</u> day of December 2021.

Allen Lyons, Chief

**Emissions Certification and Compliance Division** 

**Attachment: Engine Models** 

EO #: U-R-006-0512

Family: NSZXL02.2PXC

Attachment Last Revised: 11/29/2021

Model	Code	Trim	Config	Displacement	Displacement - Units	Peak Power	Peak Power - Units	Peak Power - Speed (rpm)	Peak Power - Fueling	Peak Power - Fuel Units	Peak Torque	Peak Torque - Units	Peak Torque - Speed (rpm)	Peak Torque - Fuel	Peak Torque - Fuel Units	OBD	GHG	Special	Notes
	41 E3VDD		14	2.179	Liters	57.7	horsepower	2000	49.2	mm3/stroke	159	lb-ft	1800	51.0		N/A		N/A	N/A
CP-4LE2X	4LE2XDP	N/A	14	2.179	Liters	61.7	horsepower	2400	45.8	mm3/stroke	159	lb-ft	1800	49.1	mm3/stroke	N/A	N/A	N/A	N/A
CP-4LE2X	4LE2XDP	N/A	14	2.179	Liters	57.7	horsepower	2000	49.2	mm3/stroke	159	lb-ft	1800	51.0	mm3/stroke	N/A	N/A	N/A	N/A
CD-41 E3Y	4LE2XDP CB-02	N/A	14	2.179	Liters	61.7	horsepower	2400	45.8	mm3/stroke	159	lb-ft	1800	49.1	mm3/stroke	N/A	N/A	N/A	N/A
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