Californ	is Environmental Protection Agency	
	RESOURCES BOARD	

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-45-9;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system 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)		
2002	2SZXL02.4CNA	2.4	Diesel	8000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		TYPICAL EQUIPMENT APPLICATION				
Indirect Diesel Injection			Compressor, Generator			

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbons (HC), oxides of nitrogen (NOx), or non-methane hydrocarbons 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):

	EMISSION		EXHAUST (g/kw-hr)				OPACITY (%)			
	STANDARD CATEGORY		нс	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
37 ≤ KW < 75	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50
		CERT		5.6				14	4	39

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 2001.

K. B. Summerfield, Chief Mobile Source Operations Division

C240NAACA-01 C240NAACA-02	1.Engine Code		EPA Engine Family	Engine category:	Manufacturer:	
C240 C240	2.Engine Model	New Submission	2SZXL02.4CNA	Nonroad CI	lsuzu Motors Limited	
54.4@3000 52.0@3000 410.6 lew 38.8 kw	3.BHP@RPM (SAE Gross)				ited	
37.3@3000 36.2@3000	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)				ATT	
26.0@3000 23.8@3000	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)				ACHMI	
104.7@2200 101.8@2200	6.Torque @ RPM (SEA Gross)	·			EV T	
38.9@2200 37.1@2200	7.Fuel Rate: mm/stroke@peak torque				- 	tto C
19.0@2200 17.9@2200	lue D				-	1-R-106-0092
ם ב	9.Emission Control evice Per SAE J1930					220

•

÷

Engine Model Summary Form

ti A

0 2 ۲ ٤ いつい