| EXECUTIVE ORDER U-R-006-0144 New Off-Road Compression-Ignition Engines |
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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) | | | |
|---|----------------------|--------------------------|-------------------------------|------------------------|--|--|--|
| 2003 | 3SZXL02.4YNA | 2.4 | Diesel | 5000 | | | |
| SPECIAL FEATURES & EMISSION CONTROL SYSTEMS | | | TYPICAL EQUIPMENT APPLICATION | | | | |
| | Indirect Diesel Inje | ction | Lift | | | | |

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):

| RATED | EMISSION | | EXHAUST (g/kw-hr) | | | | OPACITY (%) | | | |
|----------------|----------------------|------|-------------------|-----|----------|-----|-------------|-------|-----|------|
| POWER CLASS | STANDARD CATEGORY | | нс | NOx | NMHC+NOx | со | РМ | ACCEL | LUG | PEAK |
| 19≤ KW < 37 | Tier 1 | STD | N/A | N/A | 9.5 | 5.5 | 0.80 | 20 | 15 | 50 |
| | | CERT | | | 5.2 | 1.0 | 0.33 | 11 | 9 | 14 |

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 November 2002.

Allen Lyons, Chief Mobile Source Operations Division

Engine Model Summary Form

ATTACHMEN

FO U-R-006-0144

Manufacturer: Isuzu Motors Limited Engine category: Nonroad Cl EPA Engine Famy, 3SZXL02.4YNA Mfr Family Name: NA

New Submission

Process Code:

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8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930 EM,IDI EM,IDI 15.8@1800 15.8@1800 7.Fuel Rate: mm/stroke@peak torque 39.4 @ 1800 39.4 @ 1800 6.Torque @ RPM (SEA Gross) 103.1@1800 103.1@1800 5.Fuel Rate: (Ibs/hr) @ peak HP (for diesels only) 20.6@2300 21.6@2500 4.Fuel Rate: mm/stroke @ peak HP (for diesel only) 38.8@2500 40.2@2300 3.BHP@RPM (SAE Gross) C240 (36-9 ky) 49.5@2500 46.4@2300 2.Engine Model C240 C240NBADA-02 C240NBADA-01 1.Engine Code