State of California AIR RESOURCES BOARD

FXECUTIVE ORDER A-20-186-1

Relating to Certification of New Medium-Duty Motor Vehicle Engines

ISUZU MOTORS, LTD.

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 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 engine and emission control system produced by the manufacturer are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) of 8,501 to 14,000 pounds:

Model-Year: 2001

Fuel Type: Diesel

Engine Family	Engine Displacement <u>Liters (Cubic Inches)</u>	Exhaust Emission Control Systems and Special Features
1SZXH06.63RK	6.6 (403)	Turbocharger Charge Air Cooler Engine Control Module Direct Diesel Injection

Engine models and codes are listed on attachments.

The certification exhaust emission standards for this engine family in grams per brake horsepower-hour are:

Non-Methane Hydrocarbons + Nitrogen Oxides	Carbon <u>Monoxide</u>	<u>Particulates</u>
3.9	14.4	0.10

The certification exhaust emission values for this engine family in grams per brake horsepower-hour are:

Non-Methane Hydrocarbons + Nitrogen Oxides	Carbon <u>Monoxide</u>	<u>Particulates</u>
3.8	2.4	0.09

BE IT FURTHER RESOLVED: That the listed engine models are certified to the optional standards and test procedures applicable to incomplete and diesel medium-duty vehicles of 8,501 to 14,000 pounds GVWR pursuant to Title 13, California Code of Regulations, Section 1956.8(g).

BE IT FURTHER RESOLVED: That the listed engine models shall be subject to the in-use compliance provisions applicable to 1995 and subsequent model-year medium-duty vehicles, set forth in Title 13, California Code of Regulations, Section 2139(c).

BE IT FURTHER RESOLVED: That the listed engine models comply with the "California Motor Vehicle Emission Control and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the listed engine models comply with the on-board diagnostic system for the aforementioned model year pursuant to Title 13, California Code of Regulations, Section 1968.1 ("Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines").

BE IT FURTHER RESOLVED: That, for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Executive Order A-20-186, dated March 29, 2000, is hereby superseded by Executive Order A-20-186-1.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this ______

R. B. Summerfield, Chief

Mobile Source Operations Division

day of May 2000.

Engine Model Surpmary Form

A-20-186-1

Manufacturer: Isuzu Motors Limited

Engine category: On-highway HDDE

EPA Engine Family: 1SZXH06.63RK

Mfr Family Name: N/A

Process Code: New Submission

8.Fuel Rate: 9.Emission Control bs/hr)@peak torque Device Per SAE J1930	60.8@1800 ECM,CAC,TC,DFI
8.Fuel Rate: (lbs/hr)@peak torque	60.8@1800
7.Fuel Rate: mm/stroke@peak torque	76.4@1800
6.Torque @ RPM (SEA Gross)	520@1800
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	123.7@3100
4.Fuel Rate: 5.Fuel Rate: mm/stroke @ peak HP (lbs/hr) @ peak HP (for diesel only) (for diesels only)	90.0@3100
3.BHP@RPM (SAE Gross)	300HP@3100
2.Engine Model	8GF1XS
1.Engine Code	663RK-1