State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-20-62
Relating to Certification of New Heavy-Duty Motor Vehicle Engines

ISUZU MOTORS LIMITED

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-45-3;

IT IS ORDERED AND RESOLVED: That the following Isuzu Motors Limited 1988 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating over 8,500 pounds:

Engine Family	Displacement Cubic Inches (Liters)		Exhaust Emission Control Systems (Special Features)
JSZ0353EAB9	353	(5.785)	Engine Modification (Diesel Injection - Direct) (Turbocharger)
JSZ0513EAB1	513	(8.407)	Engine Modification (Diesel Injection - Direct) (Turbocharger)

Engine models and codes are listed on attachments.

The following are the certification emission values for these engine families:

Engine Family	Hydrocarbons gm/bhp-hr	Carbon Monoxide gm/bhp-hr	Nitrogen Oxides gm/bhp-hr	Particulates gm/bhp-hr
JSZ0353EAB9	0.6	1.6	5.1	0.5
JSZ0513EAB1	0.7	1.5	5.6	0.3

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

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

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

Executed at El Monte, California this 3rd day of July, 1987.

K. D. Drachand, Chief
Mobile Source Division

E.O. # A-20-62

1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer ISUZU MOTORS LIMITED

Engine Family JSZ0353EAB9, JSZ0513EAB1

Evaporative Family NA

Engine Type L6 , L6

Liters (CID) 5.785 (353), 8.407 (513)

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
ECU-Electronic Control Unit
EI-Electronic Ignition
ESAC-Electronic Spark Advance Control
VA-Vacuum Advance
VR-Vacuum Retard

Fuel System

CFI, CL, DID, DIP, EFI, MFI
nV-nVenturi Carburetor

Exhaust Emissions Control System

AIP-Air Injection-Pump
AIV-Air Injection-Valve
DBC-Dual Bed Catalyst
EGR-Exhaust Gas Recirculation
EIC-Electronic Injection Control
EM-Engine Modification
OC-Oxidation Catalyst
OS-Oxygen Sensor
HOS-Heated Oxygen Sensor
SPL-Smoke Puff Limiter or Throttle Delay
TOC-Trap Oxidizer, Continual
TOP-Trap Oxidizer, Periodical
TWC-Three-Way Catalyst
WUOC-Warm-Up Oxidation Catalyst
WUTWC-Warm-Up Three-Way Catalyt

Special Features

CCV-Combustion Chamber Valve
CFI-Central Fuel Injection or Throttle Body Injection
DID-Diesel Injection-Direct
DIP-Diesel Injection-Prechamber
EFI-Electronic Fuel Injection
IC-Intercooler or Aftercooler
MFI-Mechanical Fuel Injection
OBD-On-Board Diagnostics
TC-Turbocharger

VEHICLE MODELS:

Engine: Front _____ Mid. _____ Rear _____

Drive: FWD _____ RWD _____ 4WD Full Time _____ 4WD Part Time _____

E.O.# A-20-62

Page 2

198 8 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINES

Manufacturer ISUZU MOTORS LIMITED Engine Family JSZ0353EAB9

Liter (CID) 5.785 (353) Eng. Type L6

Emission Control Sys. and (Special Features) EM (DID, TC)

Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP at RPM	Fuel Rate mm^3/stroke (lbs/Hr)	Maximum Rated Torque at RPM	Fuel Rate mm^3/stroke (lbs/Hr)
6BD1T	DIESEL KIKI CO., LTD. 1156022281 1156022741 1156022750 1156022760 1156022770 1156022780 1156022790 1156022800 1156022810 1156022820 1156022830 1156022840 1156022850 1156022860	DIESEL KIKI CO., LTD. 1153001340	165 HP 3000 RPM	68.1 mm^3/stroke (68.1 lbs/Hr)	335 ft-lb 1900 RPM	68.1 mm^3/stroke (43.1 lbs/Hr)

Date of Issue _____ Revisions:

E.O.# A-20-62

198 8 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINES

Manufacturer ISUZU MOTORS LIMITED Engine Family JSZ0513EAB1

Liter (CID) 8.407 (513) Eng. Type L6

Emission Control Sys. and (Special Features) EM (DID, TC)

Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP at RPM	Fuel Rate mm^3/stroke (lbs/Hr)	Maximum Rated Torque at RPM	Fuel Rate mm^3/stroke (lbs/Hr)
6SA1T	DIESEL KIKI CO., LTD. 1156021811 1156022870 1156022880 1156022890 1156022900 1156022910	DIESEL KIKI CO., LTD. 1144002000	220 HP 2500 RPM	101.3 mm^3/stroke (84.4 lbs/Hr)	542 ft-lb 1700 RPM	106.8 mm^3/stroke (60.6 lbs/Hr)

Date of Issue _____ Revisions: