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 .	Displace Cubic Inche		Exhaust Emission Control Systems (Special Features)
JSZ0353EAB 9	353	(5.785)	Engine Modification (Diesel Injection - Direct) (Turbocharger)
JSZ0513EA81	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

Walley -

K. D. Drachand, Chief Mobile Source Division

1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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anufacturer	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	•	Exhaust Emi	ssions Control	System	Special Features
CA-Centrifugal Adva ECU-Electronic Cont EI-Electronic Ignit ESAC-Electronic Spa Control VA-Vacuum Advance VR-Vacuum Retard	rol Unit ion	DBC-Dual Be EGR-Exhaust EIC-Electro EM-Engine M OC-Oxidatio OS-Oxygen S HOS-Heated SPL-Smoke P Throttle TOC-Trap Ox TOP-Trap Ox	ection-Valve d Catalyst Gas Recircula nic Injection odification n Catalyst ensor Oxygen Sensor uff Limiter or Delay idizer, Contin idizer, Period	Control	CCV-Combustion Chamber Valve CFI-Central Fuel Injection or Throttle Body Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber EFI-Electronic
Tuel System			ay Catalyst o Oxidation Ca Up Three-Way C		Fuel Injection IC-Intercooler
CFI, CL, DID, DIP, nV-nVenturi Carbure		MO IMC-MATIII-		a ca i y c	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

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mission	Control Sys. a	nd (Special Fea	atures)	M (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 1156022760 1156022770 1156022780 1156022800 1156022810 1156022820 1156022820 1156022830 1156022840 1156022850 1156022860	DIESEL KIKI CO., LTD. 1153001340	165 HP 3000 RPM	68.1 mm³/stroke (68.1 lbs/Hr)	335 ft-1b 1900 RPM	68.1 mm³/stroke (43.1 lbs/Hr)

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мапитасти	rer <u>ISUZU</u>	MOTORS LIMITED		ingine Family	JSZ051	3EAB1
Liter (CI	0) 8.407	(513)	Eng	J. Type	L6	
Emission	Control Sys. a	nd (Special Fea	itures) <u>EM</u>	(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 1156022890 1156022900 1156022910	DIESEL KIKI CO., LTD. 1144002000	220 HP 2500 RPM	101.3 mm³/stroke (84.4 lbs/Hr)	542 ft-1b 1700 RPM	106.8 mm ³ /stroke (60.6 lbs/Hr)
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