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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-20-69

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 (GVWR) over 8,500 pounds:

Engine Family	Displacement Liters (Cubic Inches)		Exhaust Emission Control Systems (Special Features)		
JSZ0396DAB5	6.5	(396)	Engine Modification (Diesel Injection - Direct)		

Engine models and codes are listed on attachments.

The following are emission standards for this engine family:

Hydrocarbons gm/bhp-hr	Carbon Monoxide gm/bhp-hr	Nitrogen Oxides gm/bhp-hr	Particulates gm/bhp-hr
1.3	15.5	6.0	0.6

The following are the certification emission values for this engine family:

Engine Family	Hydrocarbons gm/bhp-hr	Carbon Monoxide gm/bhp-hr	Nitrogen Oxides gm/bhp-hr	Particulates gm/bhp-hr
JSZ0396DAB5	0.9	4.2	5.0	0.5

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 61 day of October, 1987.

K. D. Drachand, Chief Mobile Source Division

anufacturerISUZU MOTORS LIMI	TED Engi	ne Family	JSZ0396	5DAB5
Evaporative FamilyNA	Engi	ne Type	L6	
	Lite	rs (CID) _	6.495 ((396)
ABBREVIATIONS .				
Ignition System	Exhaust Emission	s Control	System	Special Features
CA-Centrifugal Advance ECU-Electronic Control Unit EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard CFI, CL, DID, DIP, EFI, MFI nV-nVenturi Carburetor	AIP-Air Injection AIV-Air Injection BBC-Dual Bed Cat. EGR-Exhaust Gas If EIC-Electronic In EM-Engine Modific OC-Oxidation Cat. OS-Oxygen Sensor HOS-Heated Oxygen SPL-Smoke Puff L Throttle Delay TOC-Trap Oxidizen TOP-Trap Oxidizen TWC-Three-Way Can WUOC-Warm-Up Oxid WUTWC-Warm-Up The	n-Valve alyst Recirculation Continuation Sensor imiter or r, Continuation talyst dation Cata	ontrol al cal	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

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Manufactur	er ISUZU MOT	TORS LIMITED	<u>E1</u>	ngine $Family_$	JSZ0396DAB5	
Liter (CID) 6.495 (396)			Eng	. Type	L6	
		nd (Special Feat	tures)	EM (DID)		
	··				 -	
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)
6BG1	DIESEL KIKI CO., LTD.	DIESEL KIKI CO., LTD.	150 HP 3000 RPM	61.4 mm³/stroke (61.4 lbs/hr)	281 ft-1b 1800 RPM	61.4 mm³/stroke (36.9 lbs/hr)
	1156023272 1156023282 1156024050 1156024060 1156024080 1156024090 1156024100 1156024110 1156024120 1156024130 1156024140 1156024160	1153002120				

Date of Issue _____ Revisions: Part numbers of two fuel injection pumps changed by RC88H01 on 112787.