(Page 1 of 3)

State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-20-147-A Relating to Certification of New Motor Vehicles

ISUZU MOTORS LIMITED

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That Isuzu Motors Limited 1996 model-year exhaust emission control systems are certified as described below for light-duty trucks:

F<u>uel Type</u>: Gasoline

Engine Family: TSZ3.22JGKEK <u>Displacement</u>: 3.2 Liters (193 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Dual Three Way Catalytic Converters Dual Heated Oxygen Sensors (two) Exhaust Gas Recirculation Sequential Multiport Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The certification exhaust emission standards for this engine family in grams per mile are:

Loaded Vehicle	Miles	Non-Methane	Carbon	Nitrogen	Carbon
<u>Weight (lbs.)</u>		<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	<u>Monoxide (20⁰F)</u>
3751-5750	50,000	0.32	4.4	0.7	12.5
	100,000	0.40	5.5	0.97	n/a

The certification exhaust emission values for this engine family in grams per mile are:

Loaded Vehicle	Miles	Non-Methane	Carbon	Nitrogen	Carbon
<u>Weight (lbs.)</u>		<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	<u>Monoxide (20⁰F)</u>
3751-5750	50,000 100,000	0.12 0.13	$\begin{array}{c} 1.5\\ 1.8 \end{array}$	0.4 0.46	12.1 n/a

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average non-methane organic gas (NMOG) exhaust mass emission requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

ISUZU MOTORS LIMITED

BE IT FURTHER RESOLVED: That under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles", and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

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

BE IT FURTHER RESOLVED: That the manufacturer is certifying the listed vehicle models with a partially complying on-board diagnostic system for the aforementioned model year pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(6.1) ("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 vehicles, the manufacturer has submitted and the Executive Officer hereby approves 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.).

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

ISUZU MOTORS LIMITED

1

EXECUTIVE ORDER A-20-147-A (Page 3 of 3)

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

Executed at El Monte, California this 💆 _____day of Noyember 1995.

futel R. B. Summerfield Assistant Division Chief

Mobile Source Division

17.07.00-10

E.O. # <u>A-20-147-A</u>

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Page 1 of 1

	Manufacturer: _	ISUZU MOTOF	S LIMITED	Exh I	Engine	Family :	TSZ3.22JG	KEK	
	Evap Std: 50K								
	Exh Std: Tier-0	Tier-1 X	TLEV LEV	ULEV	ZEV	; EPA T	ier-0 Ti	er-1_X	
	Veh Class(es) :	PC DT1	1DT2 X	 MDV1	 MDV2	 MDV3	MDV4	MDV5	
	Single Cert Std								
	Evh Cort Fuel(s	:). Indo Ph	2 X Diesel:	13 CCR 2	282	or 40 CFR	86.113-90	or -94	
	EXIL CELL LUEI(3	n Cert Fuel(s): Indo Ph2_X Diesel: 13 CCR 2282 or 40 CFR 86.113-90 or -94 M85 CNG LPG Other (specify)							
	Fuel Type(s) · [uel Type(s): Dedicated X Flex-Fuel Dual-Fuel Gasoline X Diesel M85							
		CNGLNGLPGOther (specify) id: Type ABC, APU Cycle (e.g., Otto, Diesel, Turbine)							
	Engine Configur								
	Engine: Front_	X Mid	Rear	Drive:	FWD	RWD X	4WD-FT	4WD-PT <u>X</u>	
	Exhaust FCS (ed		C. CAC):		SFI,	EGR, 2TWC,	2H02S(2)		
Exhaust ECS (eg., EGR, MFI, TC, CAC): SFI, EGR, 2TWC, 2H02S(2) (use abbreviations per SAE J1930 SEP91)							SEP91)		
5	Engine Code		Trans. Type A-automatic	ETW or	DPA	Ignition (ECM/PCM)		Catalytic Converter	
	322KE-2	XK-R1 YK-R1 XK-R1H YK-R1H YK-R1H	A	4250	14.6	PCM 8162152391 8162152393 8162152392	3 2 8170961780 0 0	TWC 8971093053 8971093072	
	(50ST) —	XK-S1 YK-S1 XK-S1H YK-S1H		4500		8162440490 8162652590 8162662290			
	Vehicle Model	XK-R1H; ROD XK-S1 ; ROD XK-S1H; ROD YK-R1 ; HON YK-R1H; HON YK-S1 ; HON	EO 2WD, P225 EO 2WD, P245 EO 4WD, P225 EO 4WD, P245 DA PASSPORT 2 DA PASSPORT 2 DA PASSPORT 4	tire tire 2WD, P225 2WD, P245 1WD, P225	tire tire				

Date Issued: 96B-04

Revisons: 96B-06 96B-AC-02 96B-AC-03