California Environmental Protection Agency

⊘ Air Resources Board

ISUZU MOTORS LIMITED Executive Order: A-020-0274-1

New Passenger Cars, Light-Duty Trucks and

Medium-Duty Vehicles

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Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC), Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 and 39516 and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: The following exhaust and evaporative emission control systems produced by the manufacturer are certified as described below. Production vehicles shall be in all material respects the same as those for which certification is granted.

					TEST GROUP	INFOR	MATION						
MODE					CLE CLASS(ES)		FUEL CATEGORY			FUEL TYPE			
.2016	16 GSZXD03.03FA				MDV5	1	DEDICATED SINGLE FUEL VEHICLE			DIESEL			
l	JSEFUL	LIFE	(miles)	VE	HICLE EMISSIO	N CATE	ORY	INTER	RIM / INTE	RMEDIA	TE IN-USE STD		
EXH	ORVR		EVAP		FTP	SF	ГР		FTP	SFTP			
120000 *				LE	V2 ULEV		*			*			
SPE	CIAL FE	ATUR		AUST EMISS	ION CONTROL		OBD S	TATUS		ENGINE	DISPLACEMENT (L)		
1	OC+PTO			, HO2S, DF	I, EGR, EGRC,		FULL *						
*				*		P	ARTIAL	ALL M	ODELS	3.0			
*				*			TIAL WITH						
			EV	APORATIVE 8	REFUELING (E	VAP/OR	VR) FAMILY	INFOR	MATION				
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR							Y EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES			
*					*		*			*			
					EMISSION CRE	DIT INFO	RMATION						
	Α	LLOW	ANCE FO	R TEST GRO	UP		CREDIT FO		MOG CRE		OPTIONAL EXH		
BASELINE PZEV AT PZEV					TZEV	NON-PZ	EV ZERO-E	VAP	AP DOR		TRUCKS		
* * *						N			N	N N			
				NMO	G AND FLEET A	VERAGE	INFORMA	TION					
NMOG RAF	NMOGNIME			HCHO/NMHO RATIO		V-8500 G	8500 GVW) MDV (8		9+NOX FLEET STD 8501-10000 GVWR (g/mi)		NMOG+NOX FLEET STI MDV (10001-14000 GVWR) (g/mi)		
*	*		*	*	*	****		*		*			

See the Attachment for Vehicle Models, Evaporative Family, Engine Displacement, Emission Control Systems, Phase-In Standards, OBD Compliance, Emission Standards and Certification Levels, and Abbreviations.

BE IT FURTHER RESOLVED:

The exhaust and evaporative emission standards and the certification emission levels for the listed vehicles are as listed on the Attachment. Compliance with the 50° Fahrenheit testing requirement may have been met based on the manufacturer's submitted compliance plan in lieu of testing. Any debit in the manufacturer's NMOG+NOx and greenhouse gas Fleet Average (PC or LDT or MDPV) or "Vehicle Equivalent Credit" (MDV) compliance plan shall be equalized as required.

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For the listed vehicle models, the manufacturer has attested to compliance with Title 13, California Code of Regulations, (13 CCR) Sections 1965 [emission control labels], 1968.2 [on-board diagnostic, full or partial compliance], 2035 et seq. [emission control warranty], 2235 [fuel tank fill pipes and openings] (gasoline and alcohol fueled vehicles only), and "High-Altitude Requirements" and "Inspection and Maintenance Emission Standards" (California 2015 and Subsequent Model Criteria Pollutant Exhaust Emission Standards and Test Procedures and 2017 and Subsequent Model Greenhouse Gas Exhaust Emission Standards and Test Procedures for PC, LDT and MDV).

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

This Executive Order hereby supersedes Executive Order A-020-0274 dated October 19, 2015.

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

Annette Hebert, Chief
Emissions Compliance, Automotive Regulations and Science Division

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				•		A	TTAC	HMEN	Г							
								TANDA								
	E	XHAUS	STEMI	SSION S	TANDA	RDS AN	ND CERT	IFICATIO	N LEV	ELS (F	TP, HW	ET, 50°	F, 20°	F)		
	FUEL TYPE		CH4: methane; NMOG: non-CH4 organic gas; HC: hydrocarbon; NMHC: non-CH4 HC; CO: carbon monoxide; NOx: oxides of nitrogen; HCHO: formaldehyde; PM: particulate matter; RAF: reactivity adjustment factor; 2DHS/3DHS [g HC/test]: 2/3 days diurnal+hot-soak; RL [g HC/mi]: running loss; ORVR [g HC/gallon dispensed]: on-board refueling vapor recovery; g: gram; mg: milligram; mi: mile; K: 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP: supplemental FTP													
				NMHC (g/mi)			CO (g/mi)		NOx (g/mi)			ICHO ng/mi)		Pi (g/i		
			CE	RT	STD	CERT	STE	CER	T	STD	CERT	ST	D	CERT	STD	
FTP@50k				*	*	*	*	*		* *		*	*		*	
FTP@UL	DIESI	EL-EPA	0.0	101 (0.167	0.11	1 7.:	0.2	4	0.4	1.6	21		0.000	0.06	
50°F @4H	K	*		*	*	*	*	*		*	*	*				
in the state	STATE OF			FUEL TYPE					NOx (g/mi)					CO (g/mi)		
				FOEL TYPE				CER			STD	(CERT		STD	
HWFET	HWFET @ 50K			*					*		* 20 miles		the first that the property was		Andreas 1	
HWFET @ UL				DIESEL-EPA					0.07 0.8					Short on Say the way		
20°F @ 50K				*				3	13 12		*			*		
			SFT	P EXHAU	JST EM	ISSION	STANDA	RDS AND	CER	TIFICA	TION LE	VELS			-	
			- 7.			JS06		SC03				COMPOSITE				
	FUEL TY		, oraș	NMHC+NOx (g/mi)					NMHC+NOx (g/mi)		CO (g/mi)	NMHC+NOx (g/mi)		CO (g/mi)	PM (mg/mi)	
@ 4K	*	CE	RT	*	•	*	1		* *							
		S	TD	*		*	0 = =		*		*				2	
		CE	RT	*		*	* *		*		*	*		*	*	
@ UL	*	S	TD	*		*	*		*		*	*		*	*	
		BI				*.		1 -				*				
		WHOL	E VEH	ICLE EV				STANDA				TION LE	VEL	S		
EVAPO	RATIVE	TVDI			-		2DHS (g/test) @ UL			RL (g/mi) @ UL			UL			
FAMILY		FUEL TYPE			3DHS (g/tes											
*		*		-	CERT S		FEL *	CERT	RT ST		FEL *	CERT *		T STD		
		EL ONI				*		EMISSIO				CERTIE	-	ION LEVE		
Ol	KVK/FU	EL ONI	TICA	MISTER	OLEEL	EVAPO	KATIVE							ON LEVE	.L3	
	RATIVE	ORVR (g/gal		gallon) (illon) @ UL		FUEL TYPE		FUEL ONLY EVA BDHS RIG TEST (g/test) @ UL		2DHS F	RIG TES	TEST BL		EED CANISTER ST (g/test) @ 4K	
FAR	WILL I	FUEL	TYPE	CERT	STD	FUEL TYPE		CERT			CERT	STD		CERT	STD	
						-			-	-		-	-	~		

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tont applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GVWR,0-3750#LVW; LDT2: LDT<6000#GVWR.3751-5750#LVW: LDT3: LDT 6001-8500#GVWR.3751-5750#ALVW: LDT4: LDT 6001-8500#GVWR.5751-8500#ALVW; MDV: medium-duty vehicle; MDV4: MDV 8501-10000#GVWR; MDV5: MDV 10001-14000#GVWR; MDPV: mediumduty passenger vehicle; HDV: heavy-duty vehicle; ECS: emission control system; CERT: certification; STD: standard; FEL: family emission limit; GVWR: gross vehicle weight rating; LVW: loaded vehicle weight; ALVW: adjusted LVW; LEV: low emission vehicle; ULEV: ultra LEV; SULEV: super ULEV; ZEV: zero-emission vehicle; PZEV: partial ZEV; AT PZEV: advanced technology PZEV; TZEV: transitional ZEV; TWC/OC: 3-way/oxidizing catalyst; ADSTWC: adsorbing TWC; HAC: HC adsorbing catalyst; WU: warm-up catalyst; NAC: NOx adsorption catalyst; SCR-U or SCRC/SCR-N or SCRC-NH3: selective catalytic reduction-urea/ammonia; NH3OC: ammonia oxidation catalyst; CTOX/PTOX: continuous/periodic trap oxidizer; DPF: diesel particulate filter (active); GPF: PM filter for spark-ignited engine; HO2S/O2S: heated/oxygen sensor; WR-HO2S or AFS: wide range/linear/heated air-fuel ratio sensor; NOXS: NOx sensor; PMS: PM sensor; RDQS: reductant quality sensor; NH3S: ammonia sensor; EGR: exhaust gas recirculation; EGRC: EGR cooler; AIR/AIRE: secondary air injection (belt driven)/(electric driven); PAIR: pulsed AIR; SFI/MFI: sequential/multiport fuel injection; DFI/IFI: direct/indirect fuel injection; TC/SC: turbo/super charger; CAC: charge air cooler; F/P/\$: full/partial/partial with fines on-board diagnostic; DOR: direct ozone reducing; HCT: hydrocarbon trap; BCAN: bleed carbon canister; prefix 2: parallel; (2) suffix: series; CNG/LNG: compressed/liquefied natural gas; LPG: liquefied petroleum gas; E85: "85%" ethanol ("15%"gasoline) fuel; E10: "10%" ethanol ("90%"gasoline) fuel; A: automatic (with lockup); M: manual transmission; SA: semi-automatic transmission; CV continuously variable transmission; SCV: selectable continuously variable transmission; AM: automated manual transmission; AMS: automated manual-selectable transmission; OT: other transmission

2016 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE	
GM CHEVROLET	3500HD (WITH OR WITHOUT AIR ROOF FAIRING)	MDV5	3.0	A	*	1	P	*	
ISUZU	NPR (WITH OR WITHOUT AIR ROOF FAIRING)	MDV5	3.0	A	*	1	P	*	
ISUZU	STRIPPED CHASSIS FOR WALK IN VAN	MDV5	3.0	A	*	1	P	*	