California Environmental Protection Agency

⊘ Air Resources Board

FUJI HEAVY INDUSTRIES, LTD.

Executive Order: A-002-0212-1
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 GRO	UP IN	FORMAT	ION				
MODE		EST G	ROUP	VEH	ICLE CLASS(E	S)		FUEL CAT	EGORY	FU	EL TYPE	
2017	н	JXJ02	.5HRV	ID	T1, LDT2, PC	2	DED:	ICATED S	INGLE FUEL	GASOLINE		
ı	USEFUL	LIFE	(miles)	V	EHICLE EMISS	ION C	ATEGOR	Y	INTERIM / INT	ERMEDIA	TE IN-USE STD	
EXH	/ORVR		EVAP		FTP		SFTP		FTP		SFTP	
15	0000		150000	LE	73 SULEV30	LEV	3 СОМРО	SITE	PM		PM	
SPE	CIAL FI	EATUR		IAUST EMIS	SION CONTRO	L		OBD STA	TUS	ENGINE	DISPLACEMENT (L)	
1	TWC	(2), V	VR-HO2S,	HO2S, SFI	, EGR, EGRC		FUL	L 2	LL MODELS			
*				*			PART	IAL	* 2.5			
*				*			PARTIA		*			
			EV	APORATIVE	& REFUELING	(EVA	P/ORVR)	FAMILY I	FORMATION			
EVA	P / ORV	/R FAN	/ILY	EVAPORAT	IVE STD CATE	GORY		AP EMISS		SPECIA	L FEATURES	
Н	IFJXR0:	1485D2	2	LEV 3 01	PTION2 WITH	FEL		PC		HCT		
Н	IFJXR0:	1224E1	2		LEV 2			LDTI			HCT	
					EMISSION C	REDIT	INFORM	ATION				
	A	ALLOW	ANCE FO	R TEST GR	OUP			EDIT FOR	1		OPTIONAL EXH	
BASE	ELINE P	ZEV	АТ	PZEV	TZEV	NC	N-PZEV 2	ZERO-EVA	AP DO	TRUCKS		
ALI	L MODE	LS		*	*		1	1	N		N	
				NM	OG AND FLEE	TAVE	RAGE IN	FORMATIO	ON			
NMOG RAF	CH4 RAF	1	FTP G/NMHC RATIO	HCHO/NMH RATIO						MDV (10001-1		
*	*		1.10	0.050	0	0.086			0.101		*	

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).

BE IT FURTHER RESOLVED:

Evaporative family HFJXR01224EP is certified pursuant to 13 CCR Section 1976(b)(1)(G)3 and deemed to comply with the requirements of 13 CCR Section 1976(b)(1)(G)1 ["LEV III evaporative requirements"].

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

This Executive Order hereby supersedes Executive Order A-002-0212 dated April 8, 2016.

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

Executed at El Monte, California on this

/

Annette Hébert, Chief

Emissions Compliance, Automotive Regulations and Science Division

FUEL TYPE

GASOLINE-

LEV3 E10

0.0282

0.060

50°F @4K

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ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EXHAUST EMISSION STANDARDS	AND CERTIFICATION LEVELS	(FTP. HWFET.	. 50°F, 20°F)

CH4: methane; NMOG: hon-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

		NMOG (g/	G+NOx mi)		O mi)		Ox mi)	HC (mg			PM (mi)
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP@50K	*	*	*	*	*	*	*	*	*	*	*
FTP@UL	GASOLINE- LEV3 E10	0.0279	0.030	0.25	1.0	*	*	0.5	4	0.000	0.003

IWFET @ 50K	FUEL TYPE	NMOG+N	CO (g/mi)		
	FUEL TYPE	CERT	STD	CERT	STD
HWFET @ 50K	*	*	*		STREET, STREET
HWFET @ UL	GASOLINE-LEV3 E10	0.0051	0.030		
20°F @ 50K	GASOLINE-COLD CO LOW OCTANE			0.43	10.0

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

				US06		SCO	3 .	CON	POSITE	
	FUEL TYPE		NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMOG+NOx (g/mi)	CO (g/mi)	NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)
@ 4K	*	CERT	*	*		*	*	STATE OF SHEET		
W 41.		STD	*	*		*	*			475 - 178 - 174 -
		CERT	*	*	2.2	*	. *	0.0240	0.36	*
@ UL	GASOLINE- LEV3 E10	STD	*	*	10	*	*	0.103	4.2	*
		BIN				CAR VINE W	AMAINT:	0.040	MARKET	

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

			WHOLE	VEHICLE	EVAPORA"	TIVE TESTI	NG		
EVAPORATIVE FAMILY	FUEL TYPE	3DHS	S (g/test)	(g/test) @ UL		2DHS (g/test) (RL (g/mi) @ UL	
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
HFJXR01224EP	GASOLINE - CA PHASE 2	0.227	0.50	*	0.182	0.50	*	0.000	0.05
HFJXR01485DX	GASOLINE- LEV3 E10	0.2467	0.300	0.275	0.2115	0.300	0.275	0.000	0.05

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EVAPORATIVE FAMILY				FUEL ONLY EVAP & CANISTER BLEED									
	ORVR (g/gallon) @ UL			FUEL TYPE	3DHS RIG TEST (g/test) @ UL		2DHS RIG TEST (g/test) @ UL		BLEED CANISTER TEST (g/test) @ 4k				
	FUEL TYPE	CERT	STD	13.0	CERT	STD	CERT	STD	CERT	STD			
HFJXR01224EP	GASOLINE - TIER 2 UNLEADED	0.082	0.20	GASOLINE - CA PHASE 2	0.05	0.0	0.05	0.0	*	*			
HFJXR01485DX	TIER3 E10 GASOLINE	0.007	0.20	GASOLINE- LEV3 E10	*	*	*	*	0.0116	0.020			

: not 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

2017 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE
SUBARU	FORESTER	LDT1	2.5	M6	HFJXR01224EP	1	F	PZEV
SUBARU	FORESTER	LDT2	2.5	CV1	HFJXR01224EP	1	F	PZEV
SUBARU	LEGACY	PC	2.5	SCV6	HFJXR01485DX	1	F	PZEV
SUBARU	OUTBACK	LDT2	2.5	SCV6	HFJXR01485DX	1	F	PZEV