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A	CALIFORNIA AIR RESOURCES BOARD
NIC IIN	AIR RESOURCES BOARD

Pursuant to the authority vested in California 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-19-095;

IT IS ORDERED AND RESOLVED: That 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	OUP I	NFOR	MATION					
MODE	- I T	EST GROUP		VEHIC	LE CLASS(E	S)		FUEL CATEGORY			FUEL TYPE		
2020) L3	JLXT02.ORTW			LDT4		DEDICATED SINGLE FU VEHICLE			GASOLINE			
USEFUL LIFE (miles) VEHICLE EMISSI								GORY	INTERIM / IN	ITE	RMEDIATE IN-USE STD		
EXH	I/ORVR	EVAP		FTP SF			TP FTP			SFTP			
150000 150000 LEV3 SULEV30								SULEV -ALONE	*		*		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS								OBD S	TATUS		ENGINE DISPLACEMENT		
1 TWC, WR-H02S, H02S(2), DFI, TC, CAC								FULL	*				
*						F	PARTIAL	ALL MODELS		2.0			
*						PAR	TIAL WITH	*					
		E	APO	RATIVE &	REFUELING	(EVA	P/OR	VR) FAMIL	INFORMATIO	N			
EVA	P / ORV	RFAMILY	EVA	PORATIVI	E STD CATEO	GORY	,	EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES		
L	JLXR01	.75P1Z		LEV 3	OPTION2			LDT4			*		
				l	EMISSION CF	REDIT	INFO	ORMATION					
	NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY NMOG CREDIT FOR NON-F							PZEV NMOG CREDIT FOR DOR			OPTIONAL EXH. STD FOR WORK TRUCKS		
N N									N				
				NMOG	AND FLEET	AVE	RAGE	E INFORMA	ΓΙΟΝ				
NMOG RAF	CH4 RAF	FTP NMOG/NMHC RATIO		HCHO/NMHC RATIO NMOG+NOX FLE PC+LDT (0-375 (g/mi)							MDV (10,001-14,000		
*	*	1.10		0.02	0	.058			0.065		*		
	A.11 1										1		

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. (As applicable, heavy-duty vehicles (HDV) over 14,000 pounds in GVWR listed in this Executive Order are certified to the requirements in 13 CCR Section 1961.2 applicable to MDV pursuant to 13 CCR Section 1956.8(c)(3) or 13 CCR Section 1956.8(h)(5), as applicable.)



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 fleet average compliance requirement for NMOG+NOx or Vehicle Equivalent Credit (13 CCR Sections 1961.2(b)(1), 1961.2(b)(3), or 1961.2(c) (3), and the incorporated test procedures, as applicable), or Greenhouse Gas Emissions (13 CCR Section 1961.3, or 17 CCR Section 95663, and the incorporated test procedures, as applicable), for PC, LDT, MDPV or MDV shall be equalized as required.

BE IT FURTHER RESOLVED:

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.

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

Executed at El Monte, California on this Z3P day of March 2020.

Allen Lyons, Chief Emissions Certification and Compliance Division



FUEL TYPE

ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

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

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

	1.0																	
				NA	/IOG+N (g/mi)			CO (g/mi)			lOx /mi)		HCH mg/			Pl (g/i		
				CER	Т	STD	CER	TS	TD	CERT	STE	CER	T	STD	CI	ERT	STD	
FTP@5	IOK	*		*		*	*		*	*	*	*		*		*	*	
FTP@I		SOLII EV3 E		0.02	02 0	.030	0.6	7 1	.0	*	*	0.1		4	0.	0015	0.01	
50°F @	AK	SOLIN EV3 E		0.01	89 0	.060	0.7	7 1	.0	*	*	0.2		8				
	FUEL TYPE NMOG+NOX (g/m							Ox (g/mi)	CO (g/mi)									
					101		-			CE	CERT		STD		RT	STD		
HWFE	T @ 50k	<				*					*	*						
HWFE	T @ UL			G2	ASOLIN	NE-LEV	/3 E10			0.0	0045	0.030						
20°F	@ 50K			GZ	ASOLIN	NE-LEV	73 E10							1.0	04		12.5	
				SFTP	EXHAU	IST EN	IISSION	STAN	DARDS	AND C	ERTIFIC	ATION LE	EVEL	S				
				US06							SC03			COMPOSITE				
	FUEL	TYPE	PE N		NMOG+NOx (g/mi)		CO (g/mi)	PM i) (mg/mi)			G+NOx /mi)	CO N (g/mi)		NMOG+NOx (g/mi)		CO g/mi)	PM (mg/mi)	
@ 4K	@ /K *		CERT *		*		*				*	*						
		-		D *			*		1		*	*						
		CEF		T 0.0107		7	3.56	3.56 3.5		0.0	0084	0.65		*		*	*	
@ UL	GASOL LEV3		STD		0.050		9.6		6		020	3.2		*		*	*	
			BIN											*				
		W	IOLE \	/EHIC	LE EVA	POR/	TIVE E	MISSIO	N STA	NDARD	SAND	CERTIFIC	ATIC	N LEVE	ELS			
						W	HOLE \	/EHICLI	EVAP	ORATI	VE TES	TING						
		E	FUEL 1	YPE	3	DHS (g	S (g/test) @ UL			2DHS (g/test) @ UL				RL (g/mi			1) @ UL	
					CERT STD		STD	FEL	CE	RT	T STD		FEL		RT	RT STD		
1 T.TT.YP0175P171		GASOL: LEV3		0.24	14 0	0.500		,	0.500		*	* 0.0		00	0.05			
0	DRVR / I	FUEL	ONLY	/ CAN	ISTER	BLEE	DEVAP	ORATIV	E EMI	SSION S	STANDA	RDS AND	CE	RTIFICA	TION	LEVE	LS	
											JEL ONLY EVAP & CANISTER BLEED							
		'E	ORVR (g/gail			lon) @ UL FUEL T					HS RIG TEST g/test) @ UL		2DHS RIG (g/test) @			EST (g/test) @ 4K		
		FL	JEL T	PE	CERT	STD			CE	RT	STD	CERT		STD	CE	RT	STD	
LJLXF	R0175P1	z	SOLIN TIER NLEAD	2 0	0.01	0.20		OLINE- /3 E10		*	*	*	* *		0.0	010	0.020	

CIC IIN AIR RESO	FORNIA URCES BOARD		UAR LAND ROVER LIMITED	Executive Order: A-409-0076 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 4 of 4							
EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)											
EVAPORATIVE FAMILY	LEAK FAMILY		CERT		STD						
LJLXR0175P1Z	LJLXR0175P1Z-00	1	*		0.02						
LDT<6000#GVWR,3751-5750 8500#ALVW; MDV: medium-d duty passenger vehicle; HDV: emission limit; GVWR: gross ULEV: ultra LEV; SULEV: sup ADSTWC: adsorbing TWC; H, SCRC/SCR-N or SCRC-NH3: continuous/periodic trap oxidiz heated/oxygen sensor; WR-H RDQS: reductant quality sens EGRC: EGR cooler; AIR/AIRE fuel injection; DFI/IFI: direct/in full/partial/partial with fines on- prefix 2: parallel; (2) suffix: sen device (ex. DPF-SCRC: SCR ethanol ("15%"gasoline) fuel; I -automatic transmission; CV: c automated manual transmission	D#LVW; LDT3: LDT 600 luty vehicle; MDV4: MDV heavy-duty vehicle; EC vehicle weight rating; LV er ULEV; ZEV: zero-em AC: HC adsorbing catal; selective catalytic reduc zer; DPF: diesel particul O2S or AFS: wide range or; NH3S: ammonia sen E: secondary air injection; direct fuel injection; TC/ -board diagnostic; DOR: ries; a hyphen (-) betwee coated DPF); CNG/LNG E10: "10%" ethanol ("90 continuously variable tra on; AMS: automated ma f: plug-in hybrid electric	1-850 V 850 S: em W: lo ission yst; W ction-l ate fill e/linea nsor; E n (belt 'SC: tu : direc en aft S: com %"gas ansmis nual-s	0#GVWR,3751-5750 1-10000#GVWR; MD ission control system aded vehicle weight; . vehicle; TZEV: trans /U: warm-up catalyst; urea/ammonia; NH3C ter (active); GPF: PM ar/heated air-fuel ratio GR: exhaust gas rec driven)/(electric drive urbo/super charger; C to zone reducing; HC er treatment ECS ind apressed/liquefied nai soline) fuel; A: autom assion; SCV: selectable selectable transmission	#ALVW; LDT4: I V5: MDV 10001 ; CERT: certifica ALVW: adjusted itional ZEV; TW NAC: NOx ads OC: ammonia ox filter for spark-ie sensor; NOXS: circulation; HP/L en); PAIR: pulse AC: charge air T: hydrocarbon icates multiple fi tural gas; LPG: I atic (with lockup e continuously v on; OT: other tra	idation catalyst; CTOX/PTOX: gnited engine; HO2S/O2S: NOx sensor; PMS: PM sensor; P EGR: High/Low Pressure EGR; d AIR; SFI/MFI: sequential/multiport cooler; FFH: fuel fired heater; F/P/\$: trap; BCAN: bleed carbon canister; unctionalities of the after treatment liquefied petroleum gas; E85: "85%"); M: manual transmission; SA: semi						

2020 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
LAND ROVER	DEFENDER 110	LDT4	2.0	SA8	LJLXR0175P1Z	1	P
LAND ROVER	DEFENDER 90	LDT4	2.0	SA8	LJLXR0175P1Z	1	P