

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.

MODE		TEST GROUP INFORMATION											
YEA		EST GROUP		VEHICLE CLASS(ES)				FUEL CATEGORY			FUEL TYPE		
202:	1 мј	LXT02.0RTW			LDT4 DEDICATED SINGLE FUEL VEHICLE					GASOLINE			
	USEFUL	LIFE (miles)		VEH	ICLE EMISS	ION C	ATE	GORY	INTERIM / IN	M / INTERMEDIATE IN-USE STD			
EXI	H/ORVR	EVAP			FTP		SF	FTP FTP			SFTP		
1!	50000	150000		LEV3	SULEV30			SULEV -ALONE	*		PM		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS								OBD STATUS			ENGINE DISPLACEMENT (L)		
1 TWC, WR-H02S, H02S(2), DFI, TC, CAC								FULL	*				
*						Р	ARTIAL	ALL MODELS	3 2.0				
* *								TIAL WITH	*				
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION													
EVA	EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR							EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES		
1	MJLXR01	.75P1Z		LEV 3	3 OPTION2			LDT4			*		
				E	EMISSION CI	REDIT	INFC	ORMATION					
	REDIT FO	DX FLEET AVE. DR EXTENDED RRANTY			EDIT FOR N ZERO-EVAP	ON-P	ZEV	NMOG CREDIT FOR DOR			OPTIONAL EXH. STD FOR WORK TRUCKS		
		N			N			N N					
				NMOG	AND FLEET	AVE	RAGE		TION				
NMOG CH4 FTP RAF RAF NMOG/NMHC RATIO HC				IO/NMHC RATIO	NMOG+NO PC+LDT ( (g			V) LDT	+NOX FLEET S (3751 LVW-8500 R) + MDPV (g/m		MOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)		
*	*	1.10							*				

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).

### BE IT FURTHER RESOLVED:

The listed vehicle models have been certified on the condition that the manufacturer provide all the on-board diagnostic data required by 13 CCR Section 1968.2(h)(1). Failure to submit the required demonstration data by February 21, 2021 or failure of the submitted demonstration data to show compliance with the test procedures, shall be cause for the Air Resources Board to revoke this Executive Order and vehicles sold under the revoked conditional certification shall be deemed uncertified and subject to a civil penalty of up to \$37,500 per violation per vehicle pursuant to HSC Section 43154.

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 on this <u>26th</u> day of December 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

			NMOG (g/r		C (g/I	-		Dx mi)	HC (mg		PM (g/mi)		
			CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	
FTP@50K	*		*	*	*	*	*	*	*	*	*	*	
FTP@UL	GASOLINE- LEV3 E10		0.019	0.030	0.7	1.0	*	*	0.0	4	0.0015	0.003	
50°F @4K		OLINE- V3 E10	0.0163	0.060	0.80	1.0	*	*	0.0	8			
								NMOG+NOx (g/mi)			CO (g/mi)		
	FUEL TYPE						CE	RT	STD	CER	т	STD	
HWFET @ 50K				*			*	*					
HWFET @ UL			GASO	LINE-LEV	3 E10		0.0	0.004					
20°F @ 50K			GASO	LINE-LEV	3 E10					0.9	9	12.5	
	SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS												

			эг		ANAL		1331014	STANDA	ARD3	AND	CERTIFIC	ATION LE	VELS				
						US06				SC03		С	OMPC	SITE			
	FUEL TY	PE			OG+N (g/mi)		CO (g/mi)	Pl (mg/			DG+NOx g/mi)	CO (g/mi)	NMOG+NO (g/mi)		CO g/mi)	PM (mg/mi)	
@ 4K	* -		CERT	*			*			*	*						
-			STD				*				*	*					
		CERT		0.011			3.6	6 4		0	.008	0.6	*		*	*	
@ UL	GASOLINE- LEV3 E10		STD	0.050			9.6	9.6 6		0.020		3.2	2 *		*	*	
			BIN										*				
WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS																	
WHOLE VEHICLE EVAP							EVAP										
	ORATIVE	FUEL TYPE		PE 3DHS (g			(g/test) @ UL			2DHS (g/test) @ UL				RL (g/mi) @ UL			
					CERT S		STD	FEL	CEF	RT	STD	FEL	CE	CERT		STD	
MJLXF	MTLYR0175P17		ASOLINI EV3 E1	_	0.27	78 0	. 500	*	*		0.500	*	0.	0.00		0.05	
C	DRVR / FUI	EL O	NLY/C	ANIS	STER	BLEED	) EVAPO	DRATIVE	EMIS	SION	I STANDA	RDS AND	CERTIFIC	ATION	LEVE	LS	
									FU	JEL C	ONLY EVA	P & CANIS	STER BLEE	D			
	ORATIVE	ORVR (g/g		/gall	/gallon) @ UL		FUEL			HS RIG TEST g/test) @ UL			RIG TEST t) @ UL				
		FUI	EL TYPE		ERT	STD			CE	RT	STD	CERT	STD	CEI	RT	STD	
MJLXF	R0175P1Z	Т	OLINE IER 2 LEADED		.01	0.20		LINE- 3 E10	*	,	*	*	*	0.0	10	0.020	



JAGUAR LAND ROVER LIMITED

EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)									
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD						
MJLXR0175P1Z	MJLXR0175P1Z-001	*	0.02						

\*: not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GVWR,0-3750#LVW; LDT2: \_DT<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; 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; HP/LP EGR: High/Low Pressure EGR; 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; FFH: fuel fired heater; 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; a hyphen (-) between after treatment ECS indicates multiple functionalities of the after treatment device (ex. DPF-SCRC: SCR coated DPF); 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; AER: all-electric range; EAER: equivalent AER; PHEV: plug-in hybrid electric vehicle; NMOG + NOx Fleet Ave. Credit for Extended Warranty: N = no credits, Y = credits, S = credits for some/select models

## 2021 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	MJLXR0175P1Z	1	P
LAND ROVER	DEFENDER 90	LDT4	2.0	SA8	MJLXR0175P1Z	1	P
LAND ROVER	DISCOVERY	LDT4	2.0	SA8	MJLXR0175P1Z	1	Р