

#### JAGUAR LAND ROVER LIMITED

Executive Order: A-409-0074

New Passenger Cars, Light-Duty Trucks and

Medium-Duty Vehicles

Page 1 of 4

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	UP IN	IFORI	MATION					
MODE		EST GROUP	T	VEHIC			FUEL CATEGORY				FUEL TYPE		
YEA	₹ '	EST GROUP	VEHICLE CLASS(ES)					FUEL CATEGORY			FOEL TIPE		
2023	L MJ	LXJ02.0RTX		L	DT2, PC				SINGLE FUEL HICLE		GASOLINE		
	USEFUL	LIFE (miles)		VEH	IICLE EMISS	ION C	ATE	GORY	INTERIM / IN	ITER	MEDIATE IN-USE STD		
EXI	I/ORVR	EVAP			FTP		SF	TP	FTP		SFTP		
1	50000	150000		LEV3	SULEV30			SULEV ALONE	*		*		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS						L R		OBD S	TATUS	E	NGINE DISPLACEMENT (L)		
1	TWO	C, WR-H02S,	102S	(2), DFI,	TC, CAC	STATE OF THE PERSON OF THE PER		FULL	*				
*	*						Р	ARTIAL	ALL MODELS		2.0		
*	* *							TIAL WITH FINES	*				
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION													
EVA	AP / ORV	R FAMILY	EVA	PORATIVE	STD CATE	GORY	PRY EVAP EMISSION STD VEHICLE CLASS			s	SPECIAL FEATURES		
	MJLXR01	40P1Z		LEV 3	OPTION2			LDT2			*		
	MJLXR01	.60P1Z		LEV 3	OPTION2			PC			*		
				E	EMISSION CI	REDIT	INFO	ORMATION					
	REDIT FO	OX FLEET AVE. OR EXTENDED RRANTY			EDIT FOR N ZERO-EVAP	ON-P	ZEV	NMOG C	REDIT FOR DO	R	OPTIONAL EXH. STD FOR WORK TRUCKS		
		N		-	N				N		N		
				NMOG	AND FLEET	AVE	RAGE	E INFORMA	TION				
NMOG RAF	CH4 RAF	FTP NMOG/NMHO RATIO	HCHO/NMHC RATIO NMOG+NOX FL PC+LDT (0-378 (g/mi)			0-375							
*	*	1.10		0.02	0	.058		0.065			*		

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.)



# JAGUAR LAND ROVER LIMITED

Executive Order: A-409-0074

New Passenger Cars, Light-Duty Trucks and

Medium-Duty Vehicles

Page 2 of 4

#### 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 \_\_\_\_\_\_ day of February 2020.

Allen Lyons, Chief

**Emissions Certification and Compliance Division** 



# JAGUAR LAND ROVER LIMITED

Executive Order: A-409-0074

New Passenger Cars, Light-Duty Trucks and

Medium-Duty Vehicles

Page 3 of 4

# **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

### **FUEL TYPE**

ten streetingeliste Speciments		NMOG+NOx (g/mi)					NOx (g/mi)		HCHO (mg/mi)		PM (g/mi)		
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD		
FTP@50K	*	*	*	*	*	*	*	*	*	*	*		
FTP@UL	GASOLINE- LEV3 E10	0.028	0.030	0.7	1.0	*	*	0	4	0.002	0.003		
50°F @4K	GASOLINE- LEV3 E10	0.045	0.060	0.4	1.0	*	*	1	8				

HWFET @ 50K HWFET @ UL 20°F @ 50K	FUEL TYPE	NMOG+N	lOx (g/mi)	CO (g/mi)		
	FUEL TIPE	CERT	STD	CERT	STD	
HWFET @ 50K	*	*	*			
HWFET @ UL	GASOLINE-LEV3 E10	0.007	0.030			
20°F @ 50K	GASOLINE-LEV3 E10			1.13	10.0	

## SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

				US06		SC03	3	COMPOSITE			
	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	*	*		*	*				
		STD	*	*		*	*				
		CERT	0.014	1.1	0	0.008	1.77	*	*	*	
@ UL	GASOLINE- LEV3 E10	STD	0.050	9.6	6	0.020	3.2	*	*	*	
		BIN						*			

### WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EVAPORATIVE FAMILY	FUEL TYPE		WHOLE \						
		3DH	S (g/test) @	D UL	2DI	HS (g/test) (	RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
MJLXR0140P1Z	GASOLINE- LEV3 E10	0.227	0.400	*	*	0.400	*	0.00	0.05
MJLXR0160P1Z	GASOLINE- LEV3 E10	0.238	0.300	*	*	0.300	*	0.00	0.05



# JAGUAR LAND ROVER LIMITED

Executive Order: A-409-0074

New Passenger Cars, Light-Duty Trucks and

Medium-Duty Vehicles

Page 4 of 4

ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS													
		FUEL ONLY EVAP & CANISTER BLEED											
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL TYPE		3DHS R (g/test	2DHS RIG TEST (g/test) @ UL		The second second	BLEED CANISTER TEST (g/test) @ 4			
	FUEL TYPE	PE CERT STD				CERT	STD	CER	Т	STD	CERT	STD	
MJLXR0140P1Z	GASOLINE - TIER 2 UNLEADED	0.01	0.20	GASOLINE- LEV3 E10		*	*	*	×	*	0.018	0.020	
MJLXR0160P1Z	GASOLINE - TIER 2 UNLEADED	0.01	0.20	GASOLINE- LEV3 E10		*	*	*		*	0.010	0.020	
	FFECTIVE	LEAK D	IAMET	ER STA	NDAR	D AND CE	RTIFICAT	TION L	EVE	L (INCH	ES)		
EVAPORATIVE FAMILY LEAK FAMIL			Y CERT				STD						
MJLXR0160P1Z LJLXR0160F			160P1Z	-001		*				0.02			
MJLXR0140P1Z LJLXR0140P1Z			140P1Z	-001	-001 * 0.02								

\*: 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; 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
JAGUAR	F-PACE 25T	LDT2	2.0	SA8	MJLXR0140P1Z	. 1	P
JAGUAR	F-TYPE P300	PC	2.0	SA8	MJLXR0160P1Z	1	P
JAGUAR	XE 25T	PC	2.0	SA8	MJLXR0160P1Z	1	P
JAGUAR	XE 25T AWD	PC	2.0	SA8	MJLXR0160P1Z	1	P
JAGUAR	XE 30T AWD	PC	2.0	SA8	MJLXR0160P1Z	1	P
JAGUAR	XF 25T	PC	2.0	SA8	MJLXR0160P1Z	1	P
JAGUAR	XF 25T AWD	PC	2.0	SA8	MJLXR0160P1Z	1	P
JAGUAR	XF 30T AWD	PC	2.0	SA8	MJLXR0160P1Z	1	P
LAND ROVER	RANGE ROVER VELAR P250	LDT2	2.0	SA8	MJLXR0140P1Z	1	P