

JAGUAR LAND ROVER LIMITED

Executive Order: A-409-0065

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

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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-14-012;

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 INF	ORMAT	ION				
MODE	- 1	ST GROUP	VE	HICLE CLASS(E				ATEGORY		FUEL TYPE	
2019	KJ:	LXT03.0HTR		LDT4		DEDI		SINGLE FUEL HICLE	GASOLINE		
	USEFUL	LIFE (miles)	g g	VEHICLE EMISS	ION CA	TEGOR	Y	INTERIM / INT	ERI	MEDIATE IN-USE STD	
EXH	I/ORVR	EVAP		FTP	38 3	SFTP		FTP	· .	SFTP	
15	0000	150000	LE	V3 SULEV30	JLEV30 LEV 3 SULEV STAND-ALONE			NMOG+NOX			
SPE	CIAL FE		HAUST EMI	SSION CONTRO	L		OBD S	ratus .	EI	NGINE DISPLACEMENT (L)	
1	TWC	, WR-H02S,	HO2S(2), D	FI, TC, CAC		FUL	L	ALL MODELS	1		
*			*			PART	IAL	*	3.0		
*			*			PARTIAL FINE		*			
		E	/APORATIV	E & REFUELING	(EVAP	P/ORVR)	FAMILY	INFORMATION	Н.		
EVA	P / ORV	R FAMILY	EVAPORA	TIVE STD CATE	GORY	1		SSION STD E CLASS	S	PECIAL FEATURES	
F	KJLXR01	75P1Z	LE	LEV 3 OPTION2			LDT4			*	
		····		EMISSION CF	REDIT	INFORM	ATION	oquit con a contra de la contra del la contra del la contra del la contra de la contra del la contra de la contra de la contra del la con	-		
0.000	EDIT FO	X FLEET AVE. OR EXTENDED RANTY	NMOG	CREDIT FOR N	ON-PZ	EV N	MOG C	REDIT FOR DOF	2	OPTIONAL EXH. STD FOR WORK TRUCKS	
N				N				N		N	
			, NI	OG AND FLEET	AVER	AGE INF	ORMA	TION	•		
NMOG RAF	CH4 RAF	FTP NMOG/NMHO RATIO	HCHO/NM RATIO	PC+LDT (LDT	+NOX FLEET ST (3751 LVW-8500 R) + MDPV (g/mi		D NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)	
*	*	1.10	0.02	0	.072			0.083		*	
			_								

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.)



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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.

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Executed at El Monte, California on this

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Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

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WIND AND FLETT AVERAGE INFLORMATION

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ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EXHAUS	TEMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFE1, 50°F, 20°F)
	CH4: mothano: NMCG: non CH4 organia gos: HC: hydrocarbon: NMHC: non CH4 HC: CO: gos

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

				NMOG+NOx CO (g/mi) (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	0.0276	0.030	0.81	1.0	*	*	0.2	4	0.0009	0.003
50°F @4K	GASOLINE- LEV3 E10	0.0216	0.060	0.19	1.0	*	-171 ★ 191	0.2	8		

	FUEL TYPE	NMOG+N	Ox (g/mi)	CO (g/mi)		
	FUEL TYPE	CERT	STD	CERT	STD	
HWFET @ 50K		*	*	A face of the second possible	CAN MERCEL	
HWFET @ UL	GASOLINE-LEV3 E10	0.0108	0.030			
20°F @ 50K	GASOLINE-LEV3 E10		29-316	0.64	12.5	

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

				US06		SC03		COM	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	*	*		*	*			
		STD	*	*		*	*			
		CERT	0.0105	5.92	2.3	0.0180	1.15	*	. *	*
@ UL	GASOLINE- LEV3 E10	STD	0.050	9.6	6	0.020	3.2	*	*	*
19	****	BIN		各国的流				*		

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

			WHOLE \							
	EVAPORATIVE FAMILY	FUEL TYPE	3DH	S (g/test) @) UL	2DI	HS (g/test) (@ UL	RL (g/n	ni) @ UL
			CERT	STD	FEL	CERT	STD	FEL,	CERT	STD
	KJLXR0175P1Z	GASOLINE- LEV3 E10	0.298	0.500	*	*	0.500	*	0.00	0.05

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 RIG TEST (g/test) @ UL		2DHS RIG TEST (g/test) @ UL		BLEED CANISTER TEST (g/test) @ 4K			
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD		
KJLXR0175P1Z	GASOLINE - TIER 2 UNLEADED	0.01	0.20	GASOLINE- LEV3 E10	*	*	*	*	0.010	0.020		



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EFFECTIV	'E LEAK DIAMETER STA	NDARD AND CERTIFICATION I	EVEL (INCHES)
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD
KJLXR0175P1Z	KJLXR0175P1Z-001	ANTES AN	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; 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; 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

2019 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
LAND ROVER	RANGE ROVER SPORT	LDT4	3.0	SA8	KJLXR0175P1Z	1	F
RANGE ROVER	RANGE ROVER SPORT	LDT4	3.0	SA8	KJLXR0175P1Z	1	F