California Environmental Protection Agency

⊘ Air Resources Board

JAGUAR LAND ROVER LIMITED Executive Order: A-409-0045

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 GROU	JP ĮŅ	FORMATI	ION		GE	/10a3	是列3KEBU 4.Th	
MODE		EST GROUP VEHICL			ICLE CLASS(ES	LE CLASS(ES)			FUEL CATEGORY			EL TYPE	
2018	18 JJLXJ02.0RTX			un Standilli Un Standilli A can soll	LDT2, PC	DEDI	DEDICATED SINGLE FUEL VEHICLE			GASOLINE			
ı	JSEFUL	LIFE	(miles)	V	EHICLE EMISSI	ON C	ATEGOR	Y	INTERIM /	INTER	MEDIA	TE IN-USE STD	
EXH	/ORVR		EVAP		FTP		SFTP		FTF	•		SFTP	
15	0000	eunn Tei 2 is	150000	LEV	73 SULEV30		EV 3 SUL	2777,674	NMOG+NOX AND PM			рм рм	
SPE	CIAL FE	ATUR	ES & EXH		SION CONTROL	· · ·		OBD S	ratus .	E	NGINE	DISPLACEMENT (L)	
1	TWO	, WR-	-HO2S, H	D2S(2), DE	FI, TC, CAC		FUL	L	*				
*				*	negutive children		PART	ALL MODE	LS	2.0			
*	*						PARTIAL	1 (1905)	4 3/ _* 80 EM		ecured at Bi-Monta. Call		
			EV	APORATIVE	& REFUELING	(EVA	P/ORVR)	FAMILY	INFORMAT	ION			
EVA	P / ORV	R FAN	MILY	EVAPORAT	IVE STD CATEG	ORY			SSION STD		SPECIA	L FEATURES	
J	JLXR01	LXR0140P1Z LEV 3 OPTION2 LDT2							*				
J	JJLXR0160P1Z LEV 3					OPTION2 PC					*		
					EMISSION CR	EDIT	INFORM	ATION					
	А	LLOW	ANCE FO	R TEST GR	OUP		MOG CR	EDIT FO	OR NMOG	CRED	IT FOR	OPTIONAL EXH STD FOR WORK	
BASE	LINE P	ZEV	AT	PZEV	TZEV	TZEV NON-PZEV ZERO			RO-EVAP DO		R TRUCK		
* *					*	* N			N	N N			
				NM	OG AND FLEET	AVE	RAGE INF	ORMA	TION				
NMOG CH4 RAF NMOG/NMHC RATIO			HCHO/NMH RATIO	PC+LDT (0	NMOG+NOX FLEE PC+LDT (0-3750 L (g/mi)		LVW) LDT (37		-NOX FLEET STD 3751 LVW-8500 R) + MDPV (g/mi)		NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)		
*	*		1.10	0.02 0.079			0.092				*		

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.

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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 NMOG+NOx and greenhouse gas Fleet Average (PC or LDT or MDPV) or "Vehicle Equivalent Credit" (MDV) compliance plan shall be equalized as required.

BF 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 seg. [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:

For evaporative families JJLXR0140P1Z and JJLXR0160P1Z, the manufacturer has attested to compliance with the 0.02 inch effective leak diameter standard in 13 CCR Section 1976(b)(1)(G)6 ["Effective Leak Diameter Standard And Procedure"1.

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 _

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

LEV3 E10 GASOLINE-

LEV3 E10

0.238

0.300

JJLXR0160P1Z

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ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

	Tie	E	XHA	UST E	MISSI	ON STAP	NDARDS A	ND CEF	RTIFICA	TION L	EVELS	(FTP, HW	/FET, 5	0°F, 20°	F)	CONTINUE OF	
		FUEL	. TYP	m ac O 10	onoxid djustm RVR [le; NOx: o ent factor g HC/gall	MOG: non- oxides of ni ; 2DHS/3D on dispense grees Fahr	trogen; F HS [g H(ed]: on-b	HCHO: f C/test]: 2 loard ret	ormalde 2/3 days fueling	ehyde; P s diurnal vapor re	M: particu +hot-soak covery; g:	ulate ma ; RL [g gram; i	atter; RA HC/mi]: mg: millig	F: reactiv running lo gram; mi:	ity oss;	
						NMOG+NOx (g/mi)		CO (g/mi)		NOx (g/mi)			HCHO (mg/mi)		PM (g/mi		
				sjel i	CERT	STE	CER	T S1	D O	CERT	STD	CER	T :	STD	CERT	STD	
FTP@5	OK	DV Follows	*	Well V	*	*	*	d len t	Ditte	*	*	Ua 100.*	v all Ma	*	* * *	*	
FTP@L	JL		LINE 3 E10		0.020	0.03	0.6	1.	. 0	*	*	0		4	0.002	0.003	
50°F @4	4K		LINE 3 E10		0.017	0.06	0.4	1.	. 0	*.	*	1		8			
				FUEL TYPE					NMOG+NOx (Ox (g/mi)	tani x	CO (g/mi)				
				leus la						CERT		STD	O'CO	CERT		STD	
HWFET @ 50K		eU 17	TANE OF THE WORLD TO BE STORE OF THE					d 10 10 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		*							
HWFE	Т@	UL			GA:	SOLINE-	LEV3 E10			0.0	007	0.030					
20°F	20°F @ 50K			GA:	GASOLINE-LEV3 E10								1.2	olez mani	10.0		
				S	FTP E	XHAUST	EMISSION	STANE	DARDS	AND C			EVELS				
							US06	JOAJ		SC03					POSITE		
	FU	IEL TY	PE		a stranger	OG+NOx g/mi)	CO (g/mi)		PM g/mi)		3+NOx mi)	CO (g/mi)	The second second	G+NOx /mi)	CO (g/mi)	PM (mg/mi	
@ 4V		CE		CERT	RT *		*	*		10.1	*	*					
@ 4K				STD		*	*			V.A	*	*					
	-	CE		CERT	C	.028	1.8	- 100	0	0.011		2.1	.1 *		*	*	
@ UL		SOLII EV3 E	200	STD	C	0.050			020	3.2		* *		*			
-	2			BIN										*			
			WHO	OLE V	EHICL	E EVAPO	DRATIVE E	MISSIO	N STAN	IDARD	S AND	CERTIFIC	ATION	LEVELS	3		
	4 7			WHOLE VEHICLE EVAI					PORATIVE TESTING				THE STREET				
EVAP FA	OR/		FL	JEL T	TYPE 3DHS (S (g/test) (g/test) @ UL		2DHS (g/test)) @ UL		RL (g/mi) @) UL	
		E				CERT	STD	FEL	CE	RT	STD	FE	L	CERT		STD	
JJLXF	2014	40P1Z		ASOLI EV3 E		0.227	0.400	*	*	915	0.400	*		0.00	Sitte	0.05	

*

0.300

0.00

0.05

@ Air Resources Board

				FUEL ONLY EVAP & CANISTER BLEED								
EVAPORATIVE FAMILY	ORVR (g/g	jallon) @) UL	FUEL TYPE		IG TEST) @ UL	2DHS R (g/test		BLEED CANISTER TEST (g/test) @ 4K			
TAME	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD		
JJLXR0140P1Z	GASOLINE - TIER 2 UNLEADED	0.01	0.20	GASOLINE- LEV3 E10	*	*	*	*	0.018	0.020		
JJLXR0160P1Z	GASOLINE - TIER 2 UNLEADED	0.01	0.20	GASOLINE- LEV3 E10	*	*	*	*	0.010	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; 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: semiautomatic transmission; CV: continuously variable transmission; SCV: selectable continuously variable transmission; AM: automated manual transmission; AMS: automated manual-selectable transmission; OT: other transmission

2018 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE
JAGUAR	F-PACE 25T	LDT2	2.0	SA8	JJLXR0140P1Z	1	P	*
JAGUAR	F-PACE 30T	LDT2	2.0	SA8	JJLXR0140P1Z	1	P	*
JAGUAR	F-TYPE	PC	2.0	SA8	JJLXR0160P1Z	1	P	*
JAGUAR	XE 2.0 AWD	PC	2.0	SA8	JJLXR0160P1Z	1	P	*
JAGUAR	XE 2.0 RWD	PC	2.0	SA8	JJLXR0160P1Z	1	P	*
JAGUAR	XE 25T	PC	2.0	SA8	JJLXR0160P1Z	. 1	P	*
JAGUAR	XE 25T AWD	PC	2.0	SA8	JJLXR0160P1Z	1	P	*
JAGUAR	XF 25T	PC	2.0	SA8	JJLXR0160P1Z	1	P	*
JAGUAR	XF 25T AWD	PC	2.0	SA8	JJLXR0160P1Z	1	P	*
JAGUAR	XF 30T	PC	2.0	SA8	JJLXR0160P1Z	1	P	*
JAGUAR	XF 30T AWD	PC	2.0	SA8	JJLXR0160P1Z	1	P	*
LAND ROVER	RANGE ROVER VELAR	LDT2	2.0	SA8	JJLXR0140P1Z	1	P	*