California Environmental Protection Agency

EXECUTIVE ORDER A-409-0007

OB Air Resources Board

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 1 of 2

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC), Div. 26, Part 5, Chap. 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 & 39516 and Executive Order G-02-003;

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.

YEAR	TEST GROUP	VEHICLE TYPE	EXHAUST EMISSION STANDARD CATEGORY	USEFUL L	FE (miles)	FUEL TYPE		
2014	EJLXV02.0FTN Passenger Car		"LEV II" Ultra Low Emission	EXH / ORVR	EVAP	Gasoline (Tier 2 Unleaded)		
2014			Vehicle (LEV II ULEV)	120K	150K			
No.	ECS & SP	ECIAL FEATURES	5440	EVAPORATIVE FAMILY (EVAF)				
1	TWC, HAFS, HO2	S, DFI, TC, CAC, OBD(F)	EJLXR0160	EJLXR0160P1Y				
*		*	*	* .				
*		*		*				

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.

BE IT FURTHER RESOLVED:

That the exhaust and the evaporative emission standards and the certification emission levels for the listed vehicles are as listed on the Attachment. Compliance with the 50⁰ 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 or NMOG+NOx, as applicable, Fleet Average" (PC or LDT or MDPV) or "Vehicle Equivalent Credit" (MDV) compliance plan shall be equalized as required.

BE IT FURTHER RESOLVED:

That 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 Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model PC, LDT and MDV).

BE IT FURTHER RESOLVED:

The test group listed in this Executive Order is certified conditionally on the manufacturer providing data to demonstrate compliance with California's greenhouse gas fleet average emission standard (CA GHG Standard) specified in Title 13, California Code of Regulations, (13 CCR) Section 1961.1 and the incorporated California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles, amended March 29, 2010 (CA Test Procedures). The manufacturer has elected, under 13 CCR Section 1961.1(a)(1)(A)(ii) and under Section E.2.5.1(ii) of the CA Test Procedures, to demonstrate compliance with the CA GHG Standard by demonstrating compliance with the National greenhouse gas program (National GHG Program). Therefore, the test group listed in this Executive Order is certified conditionally further on the manufacturer complying with the requirements specified in said provisions in 13 CCR, and Sections E.2.5.1(ii) and H.4.5(b) and H.4.5(c) of the CA Test Procedures (among other things, concerning data and information submission, timing, and format as specified by the Executive Officer). Failure to comply with the certification requirements to demonstrate compliance with CA GHG Standard by demonstrating compliance with the National GHG Program under said provisions in 13 CCR and CA Test Procedures may be cause for the Executive Officer to revoke the Executive Order. Vehicles in the revoked Executive Order shall be deemed uncertified and subject to penalties authorized under California law. Notwithstanding the requirement herein, a manufacturer that becomes, after MY2009, a large-volume manufacturer, as defined in 13 CCR Section 1900, is not required to comply with the CA GHG Standard until the beginning of the fourth model-year from becoming a large-volume manufacturer. Additionally, notwithstanding the requirement herein, a small-volume manufacturer, independent low-volume manufacturer, or intermediate volume-manufacturer, as defined in 13 CCR Section 1900, is not required to comply with CA GHG Standard during model-years (MY) 2012 through 2015.

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 19th day of July 2013.

day of July 2013. Executed at El Monte. California on this

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Erik White, Chief Mobile Source Operations Division California Environmental Protection Agency

Ø≣ Air Resources Board

JAGUAR LAND ROVER LIMITED

EXECUTIVE ORDER A-409-0007

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 2 of 2

ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

(For bi-, dual- or flexible-fueled vehicles, the STD and CERT in parentheses are those applicable to testing on gasoline test fuel.)

OLEKT STD NMNCG CERT CERT CERT CERT CERT CERT CERT CERT CERT STD Iminite, K=1000 miles; F=degrees; F=hrenheit; SFTP=supplemental federal test procedure Mwy NOx [g/m] Hwy NOx [g/m] CERT STD Cert<		FLEET GE [g/mi]		@ RAF=* RAF = *	NMOG or	HCHO=fo	hane; NMOG rmaldehyde;	PM=particu	late matter,	RAF=re	activity a	adjustme	nt facto	or; 2/3 D [g/t	est]=2/3 day	diumal+	
0.040 0.035 [g/m] [g/m] [g/m] [g/m] CC [g/m] NOx [g/m] HCHO [mg/m] PM [g/m] PM [g/m] HWy NOx [g/m] @ 50K 0.017 * 0.040 0.3 1.7 0.03 0.05 0.2 8. * * 0.004 0.0 @ 50 ^K 0.017 * 0.040 0.3 1.7 0.03 0.05 0.2 8. * * 0.004 0.0 @ 50 ^K 0.022 * 0.055 0.6 2.1 0.03 1.0 16. * <	CERT	STD			NMHC											am, mg-min	gram
Lighting	0.040	0.025				CO	[g/mi]	NO	x [g/mi]]	PM [g	/mi]	Hwy N	Ox [g/mi]
Image: State of the s	0.040	0.035	[g/mi]	[g/mi]	Laving	CERT	STD	CERT	STD	C	ERT	STC		CERT	STD	CERT	ST
@ 50°F & 4K 0.032 0.080 0.3 1.7 0.05 1.0 1.1 0.000 0.01 0.000 0.01 0.000 0.01 0.000 0.01 0.000 0.01 0.000 0.01 0.000 0.01 0.000 0.01 0.01 0.05 1.0 16. *	Frank Barrier A	@ 50K	0.017	*	0.040	0.3	1.7	0.03	0.05		0.2	8.		*	*	0.004	0.0
CO [g/mi] @ 20°F & 50K NMHC+NOx [g/mi] (composite) CO [g/mi] (composite) NMHC+NOx [g/mi] [US06] NMHC+NOx [US06] CO [g/mi] [g/mi] [SC03] CO [g/mi] [SC03] ERT 1.1 SFTP @ 4000 miles * * * 0.01 0.14 0.6 8.0 0.05 0.20 0.0 2: STD 10.0 SFTP @ * miles * </td <td>- 467</td> <td>@UL</td> <td>0.022</td> <td>*</td> <td>0.055</td> <td>0.6</td> <td>2.1</td> <td>0.03</td> <td>0.07</td> <td></td> <td>0.3</td> <td>11.</td> <td></td> <td>0.003</td> <td>0.01</td> <td>0.004</td> <td>0.0</td>	- 467	@UL	0.022	*	0.055	0.6	2.1	0.03	0.07		0.3	11.		0.003	0.01	0.004	0.0
CO [g/m] (composite) (g/mi] [US06] [US06] [g/mi] [SC03] [SC03] @ 20°F & 50K CERT STD CER	No - m	0 50°F & 4K	0.032	*	0.080	0.3	1.7	0.01	0.05		1.0	16.		*	*	*	*
CERT STD CE	CO I	[g/mī]		-													
STD 10.0 SFTP @* miles *	@ 20°F	& 50K			CERT	STD	CERT	STD	CERT	STD	CEF	RT STD	CERT	STD	CERT	STE	
STD 10.0 SFTP @* miles *	ERT	1.1	SFTP @ 4	000 miles	*	*	*	*	0.01	0.14	0	.6	8.0	0.05	0.20	0.0	2.7
Evaporative Family (grams/test) @ UL (grams/test) @ UL (grams/mile) @ UL Recovery (grams/galion) @ UL EJLXR0160P1Y 0.45 0.50 * 0.65 0.001 0.05 0.005 0.20 * <	STD	10.0			*	*	*	*	*	*		*	*	*	*	*	*
EJLXR0160P1Y 0.45 0.50 0.65 0.001 0.05 0.005 0.20 •	Eva	porative Fa	nily							(g							
ELLKROTODPTT 0.45 0.50 0.001 0.05 0.005 0.20 0.20 * * * * * * * * * * * * * * * * * * *				CERT	ST	D	CERT	S	TD	CE	RT	1	STD		CERT		STD
=not applicable; UL=useful life; PC=passenger car; LDT=light-duty truck; LDT1=LDT≤6000#GVWR,0-3750#LVW; LDT2=LDT≤6000#GVWR,3751-5750#LVD DT3=LDT 6001-8500#GVWR,3751-5750#ALVW; LDT4=LDT 6001-8500#GVWR,5751-8500#ALVW; MDV=medium-duty vehicle; MDV4=MDV 8501- 0000#GVWR; MDV5=MDV 10001-14000#GVWR; ECS= emission control system; STD= standard; CERT= certification; LVW=loaded vehicle weight; LLW=adjusted LVW; LEV=low emission vehicle; ULEV=ultra LEV; SULEV=super ULEV; TWC/OC=3-way/oxidizing catalyst; ADSTWC=adsorbing TWC; VU=warm-up catalyst; NAC=NOX adsorption catalyst; SCR-U or SCRC/SCR-N or SCRC-NH3= selective catalytic reduction-urea/ammonia; NH3OC=ammon xidation catalyst; CTOX/PTOX= continuous/periodic trap oxidizer; DPF = Diesel Particulate Filter (active); HO2S/O2S=heated/oxygen sensor; WR=HO2S or FFS=Wide range/linear/heated air-fuel ratio sensor; NOXS=NOX sensor; RDQS=reductant quality sensor; NH3S = Ammonia sensor; PMS=particulate matte ensor; EGR=exhaust gas recirculation; EGRC=EGR cooler; AIR/AIRE=secondary air injection (belt driven)/(electric driven); PAIR=pulsed AIR; SFI/MFI= equential/ multiport fuel injection; DFI=direct fuel injection; TC/SC= turbo/super charger; CAC=charge air cooler; OBD (F)/(P)(B)=full/partial/both on-board iagnostic; DOR=direct ozone reducing; HCT=Hydrocarbon Trap; BCAN=bleed carbon canister; prefix 2=parallel; (2) sufix=series; CNG/LNG=	E.	JLXR0160P	1Y	0.45	0.	50	*	0	.65	0.0	01	(0.05		0.005		0.20
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DT3=LDT 6001-8500#GVWR,3751-5750#ALVW; LDT4=LDT 6001-8500#GVWR,5751-8500#ALVW; MDV=medium-duty vehicle; MDV4=MDV 8501- 0000#GVWR; MDV5=MDV 10001-14000#GVWR; ECS= emission control system; STD= standard; CERT= certification; LVW=loaded vehicle weight; LLVW=adjusted LVW; LEV=low emission vehicle; ULEV=ultra LEV; SULEV=super ULEV; TWC/OC=3-way/oxidizing catalyst; ADSTWC=adsorbing TWC; VU=warm-up catalyst; NAC=NOx adsorption catalyst; SCR-U or SCRC/SCR-N or SCRC-NH3= selective catalytic reduction-urea/ammonia; NH3OC=ammon xidation catalyst; CTOX/PTOX= continuous/periodic trap oxidizer; DPF = Diesel Particulate Filter (active); HO2S/O2S=heated/oxygen sensor; WR-HO2S or IFS=Wide range/linear/heated air-fuel ratio sensor; NOXS= NOx sensor; RDQS=reductant quality sensor; NH3S = Ammonia sensor; PMS=particulate ensor; EGR=exhaust gas recirculation; EGRC=EGR cooler; AIR/AIRE=secondary air injection (belt driven)/(electric driven); PAIR=pulsed AIR; SFI/MFI= equential/ multiport fuel injection; DFI=direct fuel injection; TC/SC= turbo/super charger; CAC=charge air cooler; OBD (F)/(P)(B)=full/partial/both on-board iagnostic; DOR=direct ozone reducing; HCT=Hydrocarbon Trap; BCAN=bleed carbon canister; prefix 2=parallel; (2) suffix=series; CNG/LNG=		*		*			*		*		r		*		*		*
	DT3=LD 0000#G LVW=ac /U=warm xidation FS=Wid ensor; E equentia agnostic	T 6001-850 VWR; MDV djusted LVW n-up catalys catalyst; CT le range/line GR= exhaus I/ multiport f c; DOR= dire	0#GVWR,3 5=MDV 100 /; LEV=low t; NAC=NO OX/PTOX= ar/heated a t gas recirc uel injection ect ozone re	751-5750#/ emission ve continuous ir-fuel ratio ulation; EGI n; DFI=direc educing; HC	ALVW; LDT GVWR; EC ehicle; ULE n catalyst; S /periodic tra sensor; NC RC=EGR co t fuel injecti T=Hydroca	4=LĎT 6 S= emiss V=ultra L SCR-U or ap oxidize DXS= NO boler; AIR ion; TC/S rbon Trap	001-8500# ion control EV; SULE SCRC/SC er; DPF = D X sensor; I X/AIRE=se SC= turbo/ b; BCAN=t	GVWR,5 system; S V=super L R-N or S Diesel Par RDQS=re condary a super cha	751-8500 STD= star JLEV; TM CRC-NH ticulate F ductant q ir injection rger; CAC oon canist	#ALVV ndard; /C/OC= 3= sele ilter (ac uality se n (belt of C=charger; pref	/; MD\ CERT= 3-way ctive c tive); I ensor; driven) ge air c ix 2=p	/=medi = certifi /oxidizi atalytic HO2S/C NH3S /(electr cooler; arallel;	um-di catior ng ca redu 22S=1 = Am ic driv OBD	uty vehicle ; LVW=lo talyst; AD ction-urea heated/oxy monia sen ven); PAIR (F)/(P)(B)	; MDV4=N aded vehic STWC=ad /ammonia /gen senso sor; PMS= t=pulsed A =full/partia	MDV 8501- cle weight; sorbing TV ; NH3OC= or; WR-HO =particulate MR; SFI/MI	VC; ammor 2S or e matter FI=
				20				INCLE	mobi			A	110				
2014 MODEL YEAR: VEHICLE MODELS INFORMATION								DATINE	50		ENGIN	F			0.05		

MAKE	MODEL	EVAPORATIVE FAMILY	ECS NO.	ENGINE SIZE (L)	VEHICLE TYPE	SPECIAL FEATURES	OBD II
JAGUAR	XF	EJLXR0160P1Y	1	2	PC	*	Full