California Environmental Protection Agency

JAGUAR LAND ROVER LIMITED

EXECUTIVE ORDER A-409-0023

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-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.

YEAR	TEST GROUP	VEHICLE TYPE	EXHAUST EMISSION STANDARD CATEGORY	USEFUL LI	FE (miles)	FUEL TYPE		
2015	FJLXT03.0001	LDT: 6001-8500# GVW, 5751-	"LEV II" Ultra Low Emission	EXH / ORVR EVAP 120K 150K		Gasoline (Tier 2 Unleaded		
	F3EX103.0001	8500# ALVW	Vehicle (LEV II ULEV)					
No.	ECS &	SPECIAL FEATURES	EVAPORATIVE FAM		DISPLACEMENT (L)			
1	2TWC, 2WR-HO2S	, 2HO2S(2), DFI, SC, CAC, OBD(F)	FJLXR0175	FJLXR0175001				
*.		*	*		3			
*		•	*					

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 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 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 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, amended December 6, 2012).

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 2001 through 2014 Model Criteria Pollutant Exhaust Emission Standards and Test Procedures and 2009 through 2016 Model Greenhouse Gas Exhaust Emission Standards and Test Procedures for PC, LDT, and MDV, amended December 6, 2012 (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 largevolume 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 volumemanufacturer, 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 _

IZ day of August 2014. Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

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LAND ROVER

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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.)

		@ RAF=* AF = *	NMOG or	CH4=methane; NMOG=non-CH4 organic gas; NMHC=non-CH4 hydrocarbon; CO=carbon monoxide; NOx=oxides of nitrogen; HCHO=formaldehyde; PM=particulate matter; RAF=reactivity adjustment factor; 2/3 D [g/test]=2/3 day diurnal+ hot-soak; RL [g/mi]=running loss; ORVR [g/gallon dispensed]=on-board refueling vapor recovery; g=gram; mg=milligram											
CERT			NMHC	NMHC STD	mi=mile; K=1000 miles; F=degrees Fahrenheit; SFTP=supplemental federal test procedure										
0.059	0.119	CERT		[g/mi]		[g/mi]	NOx [g/mi]			CHO [mg/mi]		PM [g			
0.059 0.119		[g/mi]	[g/mi]	[Lawing	CERT	STD	CERT	STD	CE		STD	CERT	STD	CERT	STD
and the second	@ 50K	0.022	*	0.040	0.3	1.7	0.02	0.05	1.	0	8.	*	*	0.01	0.0
	@ UL	0.029		0.055	0.5	2.1	0.03	0.07	3.	0	11.	*	0.01	0.02	0.09
**** C	0 50°F & 4K	0.041	*	0.080	0.3	1.7	0.03	0.05	1.	0	16.	*	*	*	*
CO [g/mi] @ 20°F & 50K					IMHC+NOx [g/mi] (composite)		CO [g/mi] NMHC- (composite) [g/mi] [l				NMHC+NOx [g/mi] [SC03]		CO [g/mi] [SC03]		
		A State State		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STE
ERT	1.4	SFTP @ 4	000 miles	*	*		*	0.04	0.60	0.3	11.8	0.01	0.44	0.4	4.0
STD	12.5	August and a second days	@* miles	*	*	*	*	*	*	*	*	*	*	*	*
Evaporative Family		nily	3-Days Diurnal + Hot Soak (grams/test) @ UL			2-Days Diurnal + Hot Soak (grams/test) @ UL			Running Loss (grams/mile) @ UL			On-Board Refueling Vapor Recovery (grams/gallon) @ UL			
			CERT	ST	TD	CERT	S	STD	CERT ST		STD		CERT		STD
FJLXR0175001)1	0.48	0.	90	*	1	.15	0.001 0.0		0.05	0.01		0.20	
*			*		*	*		*	* *		*	*		*	
*			*			*		*	*		*			*	
*				*	*		*	*	* *		*		*		
DT3=LD 0000#G ALVW=a WU=warr oxidation AFS=Wic sensor; E sequentia diagnostic	Dicable; UL= 0T 6001-850 VWR; MDV djusted LVW n-up catalyst; CT de range/line GR=exhaus al/ multiport f c; DOR=dire sed/liquefied	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; NO RC=EGR c ct fuel inject T=Hydroca	T4=LDT 6 S= emiss V=ultra L SCR-U or ap oxidize OXS= NO ooler; AIF ooler; TC/S arbon Traj	001-8500# ion control EV; SULE SCRC/SC er; DPF = [XAIRE=se SC= turbo/ p; BCAN=t	GVWR,5 system; S V=super I CR-N or S Diesel Par RDQS=re condary a super cha	751-8500 STD= star JLEV; TM CRC-NH ticulate Fi ductant qu ir injection orger; CAC boon canist	#ALVW; ndard; Cl /C/OC=3 3= select ilter (activuality ser n (belt dr C=charge er; prefix	MDV=m ERT= cer -way/oxid ive cataly ve); HO2 sor; NH3 iven)/(ele air coole 2=parall	edium-c rtificatio dizing ca ytic redu S/O2S= SS = Am ectric dri er; OBD	luty vehicle n; LVW=loa atalyst; ADS uction-urea/ heated/oxy monia sen ven); PAIR (F)/(P)(B)	; MDV4=1 aded vehic STWC=ad ammonia gen sens sor; PMS =pulsed A =full/partia	MDV 8501- cle weight; sorbing TV ; NH3OC= or; WR-HO =particulate NR; SFI/M al/both on-t	NC; ammor 2S or e matte FI=
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FJLXR0175001

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LDT4

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Full