

Executive Order: A-014-0992

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 GRO	OUP IN	FORMA	NOITA			
MODE		EST GROUP	VEHICL	VEHICLE CLASS(ES)			FUEL C	ATEGORY	FUEL TYPE	
2018	JT	YXV03.5K6A		PC		DE		SINGLE FUEL	GASOLINE .	
	USEFUL	LIFE (miles)	VEH	ICLE EMISS	SION C	ATEGO	RY	INTERIM / INT	ERMEDIATE IN-USE STD	
EXH	/ORVR	EVAP		TP		SFTF	•	FTP	SFTP	
15	0000	150000	LEV3	ULEV125	LEV	3 COM	POSITE	PM	PM	
SPE	CIAL FE	ATURES & EXI	AUST EMISSIC	ON CONTRO)L		OBD ST	TATUS	ENGINE DISPLACEMENT	
1	DFI, S	FI, 2WR-HO2S	(2), 2TWC(2)	, 2TC, 2C	AC	F	ULL	*		
*			*			PAI	RTIAL	ALL MODELS	3.4	
*	10	***	*				AL WITH	*		
		EV	APORATIVE &	REFUELING	G (EVA	P/ORVI	R) FAMILY	INFORMATION		
EVA	P / ORV	RFAMILY	EVAPORATIVE	STD CATE	GORY	E	VEHICLE	SSION STD E CLASS	SPECIAL FEATURES	
· ·	TYXR01	80A72	LEV 3	OPTION2			P	С	HCT	
			E	MISSION C	REDIT	INFOR	MATION			
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED NMOG CREDIT FO					OIT FOR NON-PZEV NMO		NMOG CF	REDIT FOR DOR	OPTIONAL EXH. STD FOR WORK TRUCKS	
		*		N				N	N	
			NMOG	AND FLEE	TAVE	RAGE	NFORMAT	TION		
NMOG RAF	MOG CH4 NMOG/NMHC HCHO/NMHC PC+LD		PC+LDT		3750 LVW) LE		+NOX FLEET ST 3751 LVW-8500 R) + MDPV (g/mi)	NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)		
*	*	1.10	0.010		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.

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).

BE IT FURTHER RESOLVED:

For evaporative family JTYXR0180A72, 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"].

day of November 2017.

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



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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

		NMOG+NOx (g/mi)		CO (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- TIER3 E10 PREM	0.0575	0.125	0.61	2.1	*	*	*	4	0.0007	0.003
50°F @4K	*	*	*	*	*	*	*	*	*		

	FUEL TAPE	NMOG+N	IOx (g/mi)	CO (g/mi)
	FUEL TYPE	CERT	STD	CERT	STD
HWFET @ 50K	*	* *	*		
HWFET @ UL	GASOLINE-TIER3 E10 PREM	0.0253	0.125		
20°F @ 50K	COLD CO E10 PREMIUM GASOLINE (TIER3)		And the second	1.62	10.0

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

			US06			SC0	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	*	*		*	*			Marca alternati	
		STD	*	*		*	*	135	8753		
		CERT	*	*	1.6	*	*	0.0573	0.95	*	
@ UL	GASOLINE- TIER3 E10 PREM	STD	*	*	10	*	*	0.097	4.2	*	
		BIN			STATE OF THE PARTY OF	4		0.080		76.246° a.	

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

			WHOLE						
EVAPORATIVE FAMILY	FUEL TYPE	3DHS (g/test) @ UL			2DHS (g/test) @ UL			RL (g/m	ii) @ UL
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
JTYXR0180A72	GASOLINE- TIER3 E10 PREM	0.1919	0.300	*	*	0.300	*	0.007	0.05



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				FUEL ONLY EVAP & CANISTER BLEED								
EVAPORATIVE FAMILY	ORVR (g/g	gallon) @	UL	FUEL TYPE	3DHS RIG TEST 2DHS RIG TEST YPE (g/test) @ UL (g/test) @ UL .CERT STD CERT STD NE- # * * *							
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD		
JTYXR0180A72	GASOLINE- TIER3 E10 PREM	0.005	0.20	GASOLINE- LEV3 E10 PREM	*	*	*	*	0.0067	0.020		
	EFFECTIVE	LEAK D	IAMET	ER STANDAR	D AND CE	RTIFICA	TION LEV	EL (INC	HES)			
EVAPORATIVE	FAMILY	LEA	KFAMIL	.Y	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#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=medium-duty passenger vehicle; ECS= emission control system; CERT= certification; STD= standard; FEL= family emission limit; LVW=loaded vehicle weight; ALVW=adjusted LVW; LEV=low emission vehicle; ULEV=ultra LEV; SULEV=super ULEV; PZEV=partial allowance zero-emission vehicle; AT PZEV=advanced technology PZEV; TZEV=transitional zero-emission vehicle; TWC/OC=3-way/oxidizing catalyst; ADSTWC=adsorbing TWC; 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); HO2S/O2S=heated/oxygen sensor; WR-HO2S or AFS=wide rage/linear/heated air-fuel ratio sensor; NOXS= NOx 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=direct fuel injection; TC/SC= turbo/super charger; CAC=charge air cooler; OBD(F)/(P)(B)=full/partial/both 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

2018 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH	OBD
LEXUS	LS 500	PC	3.4	SA	JTYXR0180A72	1	P
LEXUS	LS 500 AWD	PC	3.4	SA	JTYXR0180A72	1	P