

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-19-095;

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 GR	OUP IN	FORMAT	TION				
MODE	- 1 - 1	EST GROUP	VEHICI	LE CLASS(I	CLASS(ES)			ATEGORY	FUEL TYPE		
2020	LT	YXT02.5P34	LD	T2, LDT3	HYBI			ELECTRIC	GASOLINE		
l	USEFUL	LIFE (miles)	VEH	ICLE EMIS	SION C	ATEGOR	RY	INTERIM / INT	ERMEDIATE IN-USE STD		
EXH	/ORVR	EVAP		FTP S			FTP FTP		SFTP		
15	0000	150000	LEV3	SULEV30	LEV 3 COMPOS		OSITE	PM	PM		
SPE	CIAL FI	EATURES & EXH	AUST EMISSIC	ON CONTRO	DL		OBD ST	TATUS	ENGINE DISPLACEMENT (L)		
1 DFI, SFI, EGR, EGRC, WR-HO2S(2), TWC(2)						FU	LL	ALL MODELS			
*							TIAL	*	2.5		
*			*			PARTIAL WITH *					
		EV	APORATIVE &	REFUELING	G (EVA	P/ORVR	FAMILY	INFORMATION			
EVA	P / ORV	R FAMILY	EVAPORATIVE	STD CATE	GORY			SION STD CLASS	SPECIAL FEATURES		
L	TYXRO	L65J82	LEV 3	OPTION2		LDT2			HCT		
			1	EMISSION	REDIT	INFORM	ATION				
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY						NMOG CREDIT FOR			OPTIONAL EXH. STD FOR WORK TRUCKS		
N N						N			N		
			NMOG	AND FLEE	TAVE	RAGE IN	FORMA	TION			
NMOG RAF	CH4 RAF	FTP NMOG/NMHC RATIO	HCHO/NMHC RATIO	NMOG+NO PC+LDT		O LVW) LD		HOX FLEET ST 3751 LVW-8500 R) + MDPV (g/mi)	D NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)		
*	*	1.10	0.006		0.065			0.074	*		

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.)



TOYOTA MOTOR CORPORATION

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.

Executed at El Monte, California on this 14th day of January 2020.

Allen Eyons, Chief Emissions Certification and Compliance Division



TOYOTA MOTOR CORPORATION

Executive Order: A-014-1067 New Passenger Cars, Light-Duty Trucks and **Medium-Duty Vehicles**

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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

ELLER	TYDE

		FUELTIPE															
						MOG+NOx (g/mi) (g				NOx (g/mi)			HCH (mg/n			PM (g/mi)	
				CER	T	STD	CER	T ST	D	CERT	STD	CER	т	STD	CE	RT	STD
FTP@5	0K	*		*		*	*	*		*	*	*		*	*		*
FTP@l	@UL GASOLINE- TIER3 E10		0.01	65 0	.030	0.09	9 1.	0	*	* *		4		0.0002		0.003	
50°F @	4K	GASOL LEV3		0.02	77 0	.060	0.0	7 1.	0	*	. *	*		8		0.946	
					FU	EL TYP	F			N	MOG+NC	Dx (g/mi)			CO ((g/mi)	
and the				_			L		CERT		STD		CER	CERT		STD	
HWFE	Т@	50K				*			*		*	*					
HWFE	Т@	UL		GI	SOLIN	E-TIE	R3 E10		0.0064		0.030					Salate P	
20°F	@ 50	ж	COLD	CO E10	REGU	LAR G	ASOLIN	E (TIE)	R3)		e la glade		0.64				12.5
				SFTP	EXHAL	JST EN	ISSION	STAND	ARDS	AND	CERTIFIC	ATION LI	EVEL	S			
							US06			SC03			C		OMPOSITE		
	FUI	EL TYP	E	N	MOG+N (g/mi)		CO (g/mi)		PM g/mi)	1	G+NOx g/mi)	CO (g/mi)		OG+NO g/mi)	G+NOx CO g/mi) (g/m		PM (mg/mi)
@ 4K	*		CEI	RT *			*				*	*					
6			ST	D	*		*	and the			*	*				1	a share
		C		RT	*		*	0	.4		*	*	0	0.0231		.18	*
@ UL		GASOLINE- TIER3 E10 ST		D	*		*		6		*	*	0.083		4	. 2	*
	E		BI	N							as lat		0	0.060		n hina The sta	
		١	WHOLE	VEHIC	LE EV	APORA	TIVE E	MISSION	N STA	NDAR	DS AND C	ERTIFIC	ATIO	N LEVE	LS		
						W	HOLE \	/EHICLE	EVAP	ORAT	IVE TEST	ING					
EVAP FA	ORA			3DHS (g/test) @			DUL	UL		2DHS (g/test)			RL (g/mi		ni) @	i) @ UL	
				_	CER	RT S	STD	FEL	CE	RT	STD	FEL	-	CER	RT		STD
LTYXR0165J82		5J82		LINE- 3 E10	0.17	0.1779 0		*	0.190		0.400	*		0.005			0.05
(ORVE	R/FUE	LONLY	//CAN	IISTER	BLEED	EVAP	ORATIV	EEMI	SSION	STANDA	RDS AND	CEF	RTIFICA	TION	LEVE	ELS
											NLY EVA	P & CAN	STE	RBLEE			
EVAPORATIVE FAMILY				/gallon) @ UL		FUEL TYPE			DHS RIG TEST (g/test) @ UL		2DHS RIG T (g/test) @						
		FL		YPE	CERT	STD			CE	RT	STD	CERT	CERT		CER	Т	STD
LTYXR0165J82			GASOL: TIER3		0.003	0.20		*	*		*	*		*	*		*

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EFFECTIV	E LEAK DIAMETER STANDA	RD AND CERTIFICATION I	LEVEL (INCHES)		
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD		
LTYXR0165J82	LTYXR0165J82-001	*	0.02		

: not applicable; #: pounds; UL; useful life; PC; passenger car; LDT; light-duty truck; LDT1; LDT<6000#GVWR.0-3750#LVW; LDT2; .DT<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 guality sensor; NH3S: ammonia sensor; EGR: exhaust gas recirculation; HP/LP EGR: High/Low Pressure EGR; 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; a hyphen (-) between after treatment ECS indicates multiple functionalities of the after treatment device (ex. DPF-SCRC: SCR coated DPF); 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

2020 MODEL YEAR: VEHICLE MODELS INFORMATION										
MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD			
TOYOTA	HIGHLANDER HYBRID	LDT2	2.5	SCV6	LTYXR0165J82	1	F			
TOYOTA	HIGHLANDER HYBRID AWD	LDT2	2.5	SCV6	LTYXR0165J82	1	F			
TOYOTA	HIGHLANDER HYBRID AWD LTD/PLAT	LDT3	2.5	SCV6	LTYXR0165J82	1	F			