

TOYOTA MOTOR CORPORATION

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	FORMA	TION				
MODE	- I T	EST GROUP	VEHIC	VEHICLE CLASS(ES)			FUEL C	ATEGORY	FUEL TYPE		
2020	L	TYXTO4.0M5S	1. 1.1.1	LDT3 DE				SINGLE FUEL HICLE	GASOLINE		
USEFUL LIFE (miles) VEHICLE EMISSION							RY	INTERIM / INT	ERMEDIATE IN-USE STD		
EXH	/ORVR	EVAP		FTP S			FTP FTP		SFTP		
150000 150000			LEV3	ULEV70	LEV	LEV 3 COMPOS		PM	PM		
SPE	CIAL F	EATURES & EXI SYS	HAUST EMISSIO	ON CONTR	OL		OBD ST	TATUS	ENGINE DISPLACEMENT (L)		
1	SF	I, AIR, 2WR-	HO2S, 2TWC (2), 2HO2S	FL	JLL	*				
*	*						RTIAL	ALL MODELS	4.0		
*			*			AL WITH	*				
		EV	APORATIVE &	REFUELIN	G (EVA	P/ORVR	R) FAMILY	INFORMATION			
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGORY								SSION STD	SPECIAL FEATURES		
I	TYXRO	190P32	L	LEV 2			LD	тз	HCT		
				EMISSION	CREDIT	INFOR	MATION				
	EDIT FO	DX FLEET AVE. DR EXTENDED RRANTY		EDIT FOR	EDIT FOR NON-PZEV ERO-EVAP			REDIT FOR DOR	OPTIONAL EXH. STD FOR WORK TRUCKS		
	N N						-	N	N		
			NMOG	AND FLEE	T AVE	RAGE IN	FORMA	TION			
NMOG RAF	CH4 RAF	FTP NMOG/NMHC RATIO	HCHO/NMHC RATIO	NMOG+NOX FLEET S PC+LDT (0-3750 LV (g/mi)					NMOG+NOX FLEET STI 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.)



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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 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.

This Executive Order hereby supersedes Executive Order A-014-1045 dated August 2, 2019.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this 7th day of November 2019.

Michael J- Kal Allen Lyons, Chief for AL **Emissions Certification and Compliance 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 (g/m				CO (g/mi)		NOx (g/mi)			HCHO (mg/mi)				
			C	ERT	ST	D	CERT	r ST	D	CERT	STD	CER	т	STD	CERT	STD	
FTP@5	ок	*		*	*		*	*		*	*	*		*	*	*	
FTP@L		GASOLINE- TIER3 E10		0.0310		.070	0.35	1.	7	*	*	*		4	0.0006	0.003	
50°F @	4K	*		* 1			*	*		*	*	*	*		in and	- ALLENDER	
						TVD	-			N	MOG+N	Ox (g/mi)			CO (g/m	ni)	
				FUEL TYPE						CI	ERT	STD		CERT ST		STD	
HWFET @ 50K				*						* *				State Har			
HWFE	T @ UL			GASOL	INE-	FIER	3 E10	E10		0.0118		0.070	0.070				
20°F	@ 50K	co	DLD CO	E10 RE	GULA	R GA	SOLIN	E (TIEF	(3)			San Garage		0.7	5	12.5	
			SF	TP EXH	AUST	EM	SSION	STAND	ARDS	AND C	ERTIFIC	ATION LE	EVEL	.s			
					U			US06 CO PM (g/mi) (mg/mi)		SC03 NMOG+NOx (g/mi)				COMPOS NMOG+NOx C (g/mi) (g/l			
	FUEL TYPE				MOG+NOx (g/mi)							CO (g/mi)				PM) (mg/mi	
@ 4K	*	*		*			*				*	*					
e tr				*		1	*				*	*			Sec.		
		ASOLINE- IER3 E10 ST		*	*		*	4	4.1		*	*	0.0266		0.6	5 *	
@ UL							5	*		*	0.083		4.2	*			
			BIN							and the second		Star Land	0.080				
		WH	OLE VE	HICLE E	EVAP	ORA	TIVE E	MISSION	I STA	NDARD	S AND C	CERTIFIC	ATIO	N LEVE	S		
						WH	IOLE V	EHICLE	EVAR	ORAT	IVE TEST	TING					
EVAPORATIVE FAMILY				PE	3DHS (g/test) @ UL				2DHS (g/test) @ UL		@ UL	RL (g/mi) @ UL			@ UL		
			CERT		S	TD	FEL C		RT STD		FEL		CERT		STD		
LTYXR0190P32			ASOLIN IER3 E	10	373	0	. 90	*	*		1.15	*	*		0.000 0.		
(DRVR / FI	JEL (DNLY / C	ANIST	R BL	EED	EVAP	ORATIVI	EEMI	SSION	STANDA	RDS AND	CEI	RTIFICA	TION LE	VELS	
												P & CAN	STE	R BLEED)		
EVAPORATIVE FAMILY			ORVR (g	ORVR (g/gallon) @ UL						DHS RIG TEST g/test) @ UL		2DHS RIG TE (g/test) @ U					
		FU	IEL TYPI	E CER	TS	TD			CI	ERT	STD	CERT		STD	CERT	STD	
LTYX	R0190P32		SOLINE ER3 E1	10 03	2 0	.20		*	*		*	*		*	*	*	

CALIFORNIA AIR RESOURCES BOARD

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EFFECTIV	E LEAK DIAMETER STA	NDARD AND CERTIFICATION L	EVEL (INCHES)		
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD		
*	*	*	*		
DT<6000#GVWR,3751-5750 3500#ALVW; MDV: medium-oduty passenger vehicle; HDV: emission limit; GVWR: gross v JLEV: ultra LEV; SULEV: sup ADSTWC: adsorbing TWC; H SCRC/SCR-N or SCRC-NH3: continuous/periodic trap oxidiz neated/oxygen sensor; WR-H RDQS: reductant quality sens EGRC: EGR cooler; AIR/AIRE uel injection; DFI/IFI: direct/in ull/partial/partial with fines on- prefix 2: parallel; (2) suffix: sen device (ex. DPF-SCRC: SCR ethanol ("15%"gasoline) fuel; I automatic transmission; CV: of automated manual transmission	#LVW; LDT3: LDT 6001-850 heavy-duty vehicle; MDV4: MDV 850 heavy-duty vehicle; ECS: en vehicle weight rating; LVW: lo er ULEV; ZEV: zero-emission AC: HC adsorbing catalyst; V selective catalytic reduction- ter; DPF: diesel particulate fil D2S or AFS: wide range/linea or; NH3S: ammonia sensor; I direct fuel injection; TC/SC: t board diagnostic; DOR: direc- ties; a hyphen (-) between afficoated DPF); CNG/LNG: con E10: "10%" ethanol ("90%"ga continuously variable transmi on; AMS: automated manual- t/: plug-in hybrid electric vehic	car; LDT: light-duty truck; LDT1: LDT 10#GVWR,3751-5750#ALVW; LDT4: 10-10000#GVWR; MDV5: MDV 1000 hission control system; CERT: certific aded vehicle weight; ALVW: adjusted n vehicle; TZEV: transitional ZEV; TV VU: warm-up catalyst; NAC: NOx ads urea/ammonia; NH3OC: ammonia op ter (active); GPF: PM filter for spark- ar/heated air-fuel ratio sensor; NOXS EGR: exhaust gas recirculation; HP/L t driven)/(electric driven); PAIR: pulse urbo/super charger; CAC: charge air ct ozone reducing; HCT: hydrocarbor ter treatment ECS indicates multiple inpressed/liquefied natural gas; LPG: soline) fuel; A: automatic (with lockup ssion; SCV: selectable continuously eselectable transmission; OT: other tr ter; NMOG + NOx Fleet Ave. Credit for	LDT 6001-8500#GVWR,5751- 1-14000#GVWR; MDPV: medium- cation; STD: standard; FEL: family d LVW; LEV: low emission vehicle; VC/OC: 3-way/oxidizing catalyst; corption catalyst; SCR-U or kidation catalyst; CTOX/PTOX: ignited engine; HO2S/O2S: NOx sensor; PMS: PM sensor; LP EGR: High/Low Pressure EGR; ed AIR; SFI/MFI: sequential/multipo cooler; FFH: fuel fired heater; F/P/S in trap; BCAN: bleed carbon canister functionalities of the after treatment liquefied petroleum gas; E85: "85% p); M: manual transmission; SA: servariable transmission; AM: ransmission; AER: all-electric range		

2020 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
TOYOTA	4RUNNER 2WD	LDT3	4.0	SA5	LTYXR0190P32	1	P
TOYOTA	4RUNNER 4WD	LDT3	4.0	SA5	LTYXR0190P32	1	P