

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-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.

				TEST GR	OUP IN	FORMA	TION						
MODE	_	TEST GROUP	VEHIC	VEHICLE CLASS(ES)			FUEL CATEGORY			FUEL TYPE			
2019	R	TYXT05.7M58		LDT4				EL VEHICLE FFV)	85%	85% ETHANOL, GASOLINE			
	USEFU	L LIFE (miles)	VE	ICLE EMIS	SION C	ATEGOR	RY	INTERIM / IN	TERM	EDIATE IN-USE STD			
EXH/ORVR EVAP				FTP				FTP		SETP			
150000 150000			0 LEV3	3 ULEV70 LEV 3 C		3 COMP	COMPOSITE NMOG+NOX AL		D PM PM				
SPE	CIAL F		HAUST EMISSI	ON CONTR	OL		OBD S	TATUS	EN	GINE DISPLACEMENT			
1 SFI, 2AIR, 2WR-HO2S, 2TWC(2), 2HO2S							LL	*					
*			*		PARTIAL		ALL MODELS	11	5.7				
*			*			PARTIA FIN		*					
-		E	VAPORATIVE &	REFUELIN	G (EVA	P/ORVR)	FAMILY	INFORMATION					
EVA	P/OR	R FAMILY	EVAPORATIVE	E STD CATE	EGORY			SSION STD	SP	ECIAL FEATURES			
F	TYXRO	300P32	L	LEV 2				LDT4		HCT			
F	TYXRO	190932	L	LEV 2			LDT4			HCT			
				EMISSION	CREDIT	INFORM	ATION						
	EDIT FO	OX FLEET AVE OR EXTENDED RRANTY	NMOG CR	EDIT FOR		ZEV			OPTIONAL EXH. STI FOR WORK TRUCK				
		N		N		N				N			
			NMOG	AND FLEE	T AVE	RAGE IN	FORMAT	NON					
IMOG RAF	CH4 RAF	FTP NMOG/NMHO RATIO (GASOLINE)	RATIO	NMOG+N PC+LDT			LDT (DG+NOX FLEET STD DT (3751 LVW-8500 WR) + MDPV (g/mi)		MOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)			
*	*	1.10	0.026		0.072		0.083			*			

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.)



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 _____ day of July 2018.

Annette Hebert, Chief Emissions Compliance, Automotive Regulations and Science Division

CALIFORNIA AIR RESOURCES BOARD							TOYOTA MOTOR CORPORATION			Executive Order: A-014-1013 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 3 of 4						
						A	TAC	HME	NT							
	EX	HAUS	TAN	DEVAP	ORATIV	E EMIS	SION	STAN	DARD	SAN	D CERT	IFIC	ATION	EVELS	5	
		EXH	AUST	EMISSIO	N STAND	ARDS AN	D CER	TIFICA	TION L	EVELS	(FTP, HV	VFET	, 50°F, 20°	F)	•	
	F	FUEL TYPE CH4: methane; NMOG: non-CH4 organic gas; HC: hydrocarb monoxide; NOx: oxides of nitrogen; HCHO: formaldehyde; PM adjustment factor; 2DHS/3DHS [g HC/test]: 2/3 days diurnal+I ORVR [g HC/gallon dispensed]: on-board refueling vapor recont 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure									PM: partic +hot-soal covery; g	ulate c; RL : gran	matter; RA [g HC/mi]: n; mg: milli	running l gram; mi	vity oss;	
				NMOG+NOx (g/mi)			CO (g/mi)		NOx (g/mi)		HCH (mg/n			P M (g/mi)		
			ľ	CERT	STD	CERT	ST	DC	ERT	STD	CER	T	STD	CERT	STD	
FTP@5	OK	*		*	*	*	*		*	*	*		*	*	*	
FTP@L	JL (G	E85-E1 GASOLI IER3 E	NE-	0.0499 (0.0296)	0.070 (0.070)	0.22 (0.29)	1.7		* (*)	* (*)	0.4		4 (4)	* (*)	0.003 (0.003)	
50°F @	4K	*		*	*	*	*		*	*	*		*			
	-		-		FUEL TYP	E			NN	IOG+N	Ox (g/mi)		(CO (g/mi	1	
FUELTIPE					-	C		CE	RT	STD		CERT		STD		
HWFE	r @ 50	K			*				*		- *					
HWFE	T@U				E85-EPA	R3 E10)			0.0140 (0.0134)		0.070					
20°F	@ 50K			0 E10 RE (70% ETH		CAL PH							0.64 (7.34)		12.5 12.5)	
		-		SFTP EXH	AUSTEN	ISSION S	TANDA	ARDS A	ND CE	RTIFIC	ATION L	EVEL	.s			
						US06				SC03			CON	POSITE		
	FUEL	UEL TYPE		NMOG (g/i		CO (g/mi)				NMOG+NOx (g/mi)		O NMOG+NO> mi), (g/mi)		CO (g/mi)	PM (mg/mi	
@ 4K	+ CERT		т	* .*		17100		*		*		-				
ent		STD		D *		*		-	*		*	*		1 2		
-		E85-EPA ST				*			*		*			0.35	*	
@ UL	E85					*	6		* * 0.090		0.090	4.2	*			
		BI			-	*	+		*	* * 0.0285			0.89	*		
(~0 III I		LINE- 3 E10	STE	-		*			+		*			4.2	*.	
		BI		N		-						(0.080			
		WH	IOLE	VEHICLE	EVAPORA	TIVE EM	ISSION	STAN	DARDS	AND	ERTIFIC	ATIO	N LEVELS	;		
EVAP		VE	UEL 1	TYPE 3DHS (g/test) @ UL					2DHS (g/test) @ UL				RL (g/mi) @ UL			
FA	MILY			-		STD	FEL	CER			FEL		CERT		STD	
KTYXR	0190P	32	E10-1				*	0.59			*		0.008		0.05	
		32	E10-			.90	*	*		1.15	*		0.011		0.05	

A	CALIF	OR1 RCES B	NIA OARD	TOYOTA MOTOR CORPORATION				Executive Order: A-014-1013 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 4 of 4					
ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS													
			FUEL ONLY EVAP & CANISTER BLEED										
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL TYPE		3DHS RIG TEST (g/test) @ UL		2DHS RIG TEST (g/test) @ UL		BLEED CANISTER TEST (g/test) @ 4K			
	FUEL TYPE	CERT	STD			CERT	STD	CERT	STD	CERT	STD		
KTYXR0300P32	RO300P32 GASOLINE - TIER 2 0.001 0.20 UNLEADED		*		*	*	*	*	*	*			
KTYXR0190P32	KR0190P32 GASOLINE - TIER 2 0.014 0.20 UNLEADED		*		*	*	*	*	*	*			
	EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)												
EVAPORATIVE	Y CERT			RT			STD						
*			*	*					*				
tot applicable; #: pounds; 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; 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 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/IFI: direct/indirect fuel injection; TC/SC: turbo/super charger; CAC: charge air cooler; FFH: fuel fired heater; Pre/S: 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; 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; AA: automated manual transmission; CV: continuously variable transmission; SCV: selectable continuously variable transmiss													
	2019 M	ODEL	YEA	R: VE	EHICI		DELS	NFOR		N			

4	2019 MODEL TEAR. VEHICLE MODELS INFORMATION													
MAKE	MAKE MODEL		ENGINE (L) TRANS TYPE		EVAPORATIVE FAMILY	EXH ECS	OBD							
TOYOTA	TUNDRA 4WD FFV	LDT4	5.7	SA6	KTYXR0190P32	1	P							
TOYOTA	TUNDRA 4WD FFV	LDT4	5.7	SA6	KTYXR0300P32	1	P							