

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 GRO		RMATI	ON					
MODE YEAR				VEHICLE CLASS(ES)			F	FUEL CATEGORY			FUEL TYPE		
2019	KT	YXV03.5M5B		PC DI			DEDI	DEDICATED SINGLE FUEL VEHICLE			GASOLINE		
	USEFUL	LIFE (miles)		VEHICLE EMISSION CATEG				·	INTERIM / IN	TERM	RMEDIATE IN-USE STD		
EXH/ORVR EVAP				FTP S			FTP	FTP FTP			SFTP		
150000 150000			)	LEV3	3 ULEV70 LEV 3 CO			POSITE +			PM		
SPE	SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS OBD STATUS								EN	ENGINE DISPLACEMENT (L)			
1	1 DFI, SFI, 2WR-HO2S, 2TWC, 2H02S, TWC FULL ALL MODELS												
*	* *							AL	*	1	3.5		
*	* * PARTIAL WITH * FINES												
	EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION												
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGORY EVAP EMISSION STD VEHICLE CLASS SPE							SPECIAL FEATURES						
1	KTYXR0130P72				LEV 3 OPTION2			PC			HCT		
				i	EMISSION CI	REDIT IN	FORMA	TION					
	NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY					ON-PZE\	ZEV NMOG CREDIT FOR DO			OPTIONAL EXH. STD FOR WORK TRUCKS			
N					N N			N	N				
NMOG AND FLEET AVERAGE INFORMATION													
NMOG RAF	INMOG/NMHC PC+LD1/0-3				0-3750 L		W) LDT (3751 LVW-8500 MDV (10,			MOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)			
*	*	1.10	(	0.017	. 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.



### 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.

19 day of April 2018. Executed at El Monte, California on this

Annette Hebert, Chief

He Demissions Compliance, Automotive Regulations and Science Division



FUEL TYPE

TOYOTA MOTOR CORPORATION Executive Order: A-014-0995 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 3 of 4

## 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

				NMOG- (g/m			CO (g/mi)			Ox mi)		HCH (mg/		E	PM /mi)	
			(	ERT	STD	CER	T ST	DC	ERT	STD	CER	Т	STD	CERT	STD	
FTP@5	ок	*		*	*	+	*		*	*	*		*	*	*	
FTP@L	TP@UL GASOLI		10	.0305	0.070	0.1	.9 1.	7	*	*	+		4	0.0006	0.003	
50°F @	4K	*		*	*	*	*		*	*	+		*			
					UEL T	/DE	E		NMOG+NOx (g/mi)				CO (g/mi)			
					UEL I	FE			CE	RT	STD		CERT		STD	
HWFE	T @ 50K				*						*					
HWFE	T@UL			GASOL	INE-TI	ER3 E1	3 E10		0.0089		0.070					
20°F	@ 50K	CO	LD CO	E10 REG	JULAR	GASOLI	NE (TIEF	23)					0.5	0	10.0	
		-	SF	TP EXH	USTE	MISSIO	N STAND	ARDS A	ND CI	ERTIFIC	ATION L	EVE	LS			
						US06			SC03				COMPOSITE			
FUEL T		YPE N			NMOG+NOx (g/mi)		CO PM (g/mi) (mg/mi)		NMOG+NOx (g/mi)		CO (g/mi)	NN	IOG+NO (g/mi)	x CO (g/mi)	PM (mg/mi	
	*		CERT	*		*			1		+					
@ 4K			STD	*		*			1	-	*	-				
		CEF				*	0	.8			*	1	0.0252	0.21	*	
@ UL		GASOLINE- TIER3 E10 BI				+		6			* 0.090		4.2	+		
													0.060			
		WH	OLE VE	HICLE E	VAPOI	RATIVE	EMISSION	STAN	DARDS	S AND C	ERTIFIC	ATIC	N LEVE	LS		
						WHOLE	VEHICLE	EVAPO	RATI	/E TEST	ING					
	PORATIVE FUEL TYPE 3DHS (g/test)		(g/test)	test) @ UL			2DHS (g/test) @		@ UL		RL (g/mi) @ UL					
FA	MILY			-	RT	STD	FEL	CER		STD	FE	1	CE	PT	STD	
KTYXR0130P72			ASOLIN	E- 0	996	0.300				0.300	+		0.005		0.05	
		T.	TER3 E	10												
C	DRVRIFL	JEL C	MLY/C	ANISTE	R BLE	ED EVA	ORATIVIS						_	TION LEV	ELS	
			DEVE (		@.III	-					P & CAN				ANICTED	
EVAPORATIVE		ORVR (g/gallon) @ UL			FUI			(g/test) @ UL		2DHS RIG (g/test) @						
		FU	EL TYP	ECER	ST			CER	-	STD	CERT	-	STD	CERT	STD	
KTYXR0130P72			SOLINE ER3 E1		3 0.2	0	GASOLINE- LEV3 E10				+	1	+	0.0121	0.020	

CALI AIR RESO	FORNIA URCES BOARD	TOYOTA MOTOR CORPORATION		Executive Order: A-014-0995 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 4 of 4		
EFFECTIV	E LEAK DIAMETER	STANDARD AND CEN	RTIFICATION LEVEL	(INCHES)		
EVAPORATIVE FAMILY	LEAK FAMILY	CER	т	STD		
KTYXR0130P72	KTYXR0130P72-00	*		0.02		
duty passenger vehicle; HDV: emission limit; GVWR: gross ULEV: ultra LEV; SULEV: sup ADSTWC: adsorbing TWC; H SCRC/SCR-N or SCRC-NH3: continuous/periodic trap oxidi: heated/oxygen sensor; WR-H RDQS: reductant quality sens secondary air injection (belt d direct/indirect fuel injection; Tu fines on-board diagnostic; DC suffix: series; CNG/LNG: com E10: "10%" ethanol ("90%"ga: continuously variable transmis automated manual-selectable hybrid electric vehicle	vehicle weight rating; LV per ULEV; ZEV: zero-err AC: HC adsorbing catal selective catalytic redu zer; DPF: diesel particul O2S or AFS: wide rang or; NH3S: ammonia ser riven)/(electric driven); F C/SC: turbo/super charg R: direct ozone reducin pressed/liquefied natura soline) fuel; A: automatic ssion; SCV: selectable of	W: loaded vehicle weight nission vehicle; TZEV: trar lyst; WU: warm-up catalys iction-urea/ammonia; NH3 late filter (active); GPF: PM e/linear/heated air-fuel rat nsor; EGR: exhaust gas re PAIR: pulsed AIR; SFI/MF ger; CAC: charge air coole ig; HCT: hydrocarbon trap al gas; LPG: liquefied petro c (with lockup); M: manual continuously variable trans	ALVW: adjusted LVW; nsitional ZEV; TWC/OC: t; NAC: NOx adsorption OC: ammonia oxidation A filter for spark-ignited e io sensor; NOXS: NOx s ecirculation; EGRC; EGR I: sequential/multiport fue r; FFH: fuel fired heater; BCAN: bleed carbon ca oleum gas; E85; "85%" e I transmission; SA: semi smission; AM: automated	LEV: low emission vehicle; 3-way/oxidizing catalyst; catalyst; SCR-U or catalyst; CTOX/PTOX: engine; HO2S/O2S: sensor; PMS: PM sensor; R cooler; AIR/AIRE: el injection; DFI/IFI: F/P/\$: full/partial/partial with anister; prefix 2: parallel; (2) ethanol (*15%*gasoline) fuel; -automatic transmission; CV: d manual transmission; AMS:		

2019 MODEL YEAR: VEHICLE MODELS INFORMATION											
MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD				
TOYOTA	AVALON	PC	3.5	SA8	KTYXR0130P72	1	F				
TOYOTA	AVALON XLE	PC	3.5	SA8	KTYXR0130P72	1	F				