

# TOYOTA MOTOR CORPORATION

Executive Order: A-014-1004

New Passenger Cars, Light-Duty Trucks and

Medium-Duty Vehicles

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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.

MODEL   TEST GROUP   VEHICLE CLASS(ES)						TEST GRO	UP II	NFOR	MATION					
USEFUL LIFE (miles)		I T	EST GROUP		VEHICLE CLASS(ES)				FUEL CATEGORY			FUEL TYPE		
STANDARD	2019	KI	TYXV01.5F6A		PC						GASOLINE			
LEV2 ULEV OPTION CERTIFYING TO NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY NMOG AND FLEET AVERAGE INFORMATION  LEV2 ULEV OPTION CERTIFYING TO LEV3 ULEV STANDARD  LEV 2 SFTP STANDARD  LEV 2 SFTP STANDARD  OBD STATUS  ENGINE DISPLACEMEN (L)  FULL ALL MODELS PARTIAL *  PARTIAL WITH FINES  EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION  EVAP / ORVR FAMILY EVAPORATIVE STD CATEGORY EVAP EMISSION STD VEHICLE CLASS  SPECIAL FEATURES  SPECIAL FEATURES  SPECIAL FEATURES  SPECIAL FEATURES  SPECIAL FEATURES  SPECIAL FEATURES  OPTIONAL EXH. STD FOR WORK TRUCKS  NMOG CREDIT FOR NON-PZEV WARRANTY NMOG AND FLEET AVEAGE INFORMATION  NMOG CREDIT FOR DOR NMOG-NOX FLEET STD NMOG/NMHC RAF NMOG/NMHC RAF NMOG/NMHC RAF NMOG/NMHC RAFIO  NMOG-NOX FLEET STD NMOG/NMHC RAFIO  NMOG-NOX FLEET STD LDT (3751 LVW-8500 GVWR) + MDPV (g/mi) NMOG-NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)		USEFUL	LIFE (miles)		VEHICLE EMISSION CATEGORY					INTERIM / INTERMEDIATE IN-USE STO				
150000	EXH	I/ORVR	EVAP			FTP		SF	FTP FTP			SFTP		
SYSTEMS  OBDISTATOS  (L)  1 TWC, WU-TWC, HO2S, WR-HO2S, DFI  * * * PARTIAL * PARTIAL WITH FINES  EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION  EVAP / ORVR FAMILY  EVAPORATIVE STD CATEGORY  EVAP EMISSION STD VEHICLE CLASS  KTYXR0107R12  LEV 2  FC  * EMISSION CREDIT INFORMATION  NMOG+NOX FLEET AVE. CREDIT FOR NON-PZEV ZERO-EVAP  WARRANTY  NMOG CREDIT FOR NON-PZEV ZERO-EVAP  NMOG AND FLEET AVERAGE INFORMATION  NMOG AND FLEET AVERAGE INFORMATION  NMOG CH4 RAF NMOG/NMHC RATIO  NMOG/NOX FLEET STD NMOGHOX FLEET STD LDT (3751 LVW-8500 GVWR) (g/mi)  NMOGHOX FLEET STD MDG (GVWR) (g/mi)  NMOGHOX FLEET STD MDG (GVWR) (g/mi)  NMOGHOX FLEET STD MDG GVWR) (g/mi)  MMOGHOX FLEET STD MDG GVWR) (g/mi)  NMOGHOX FLEET STD MDG (GVWR) (g/mi)  MMOGHOX FLEET STD MDG (GVWR) (g/mi)  MMOGHOX FLEET STD MDG (GVWR) (g/mi)  MMOGHOX FLEET STD MDG (GVWR) (g/mi)	150000 150000				CERTI	FYING TO	FYING TO LEV 2 SFTP 3 ULEV STANDARD			*	,	*		
PARTIAL * 1.5  EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION  EVAP / ORVR FAMILY EVAPORATIVE STD CATEGORY EVAP EMISSION STD VEHICLE CLASS  ETYXR0107R12 LEV 2 PC *  EMISSION CREDIT INFORMATION  NMOG+NOX FLEET AVE. CREDIT FOR NON-PZEV WARRANTY NMOG CREDIT FOR NON-PZEV WARRANTY NMOG CREDIT FOR DOR NMOG CREDIT FOR WORK TRUCKS  NMOG AND FLEET AVERAGE INFORMATION  NMOG CH4 RAF NMOG/NMHC RATIO NMOG+NOX FLEET STD LDT (3751 LVW-8500 GVWR) (g/mi) MDV (10,001-14,000 GVWR) (g/mi)  NMOG CWR) (g/mi)						ON CONTROI	L		OBD STATUS					
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION  EVAP / ORVR FAMILY EVAPORATIVE STD CATEGORY EVAP EMISSION STD VEHICLE CLASS  ETYXR0107R12 LEV 2 PC *  EMISSION CREDIT INFORMATION  NMOG+NOX FLEET AVE. CREDIT FOR NON-PZEV ZERO-EVAP  NMOG CREDIT FOR NON-PZEV ZERO-EVAP  NMOG AND FLEET AVERAGE INFORMATION  NMOG AND FLEET AVERAGE INFORMATION  NMOG CREDIT FOR MOGHNOX FLEET STD NMOGHNOX FLEET STD LDT (3751 LVW-8500 GVWR) (g/mi)  NMOGHNOX FLEET STD MOGHNOX FLEET STD MODY (10,001-14,000 GVWR) (g/mi)	1	TWC, WU-TWC, HO2S ,WR-HO2S, DFI							FULL ALL MODELS					
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION  EVAP / ORVR FAMILY EVAPORATIVE STD CATEGORY EVAP EMISSION STD VEHICLE CLASS  ETYXR0107R12 LEV 2 PC *  EMISSION CREDIT INFORMATION  NMOG+NOX FLEET AVE. CREDIT FOR NON-PZEV ZERO-EVAP  N N N N N N N N N N N N N N N N N N N	*	* *						P	PARTIAL *			1.5		
EVAP / ORVR FAMILY  EVAPORATIVE STD CATEGORY  EVAP EMISSION STD VEHICLE CLASS  SPECIAL FEATURES  **  EMISSION CREDIT INFORMATION  NMOG+NOX FLEET AVE. CREDIT FOR NON-PZEV WARRANTY  NMOG CREDIT FOR NON-PZEV ZERO-EVAP  NMOG AND FLEET AVERAGE INFORMATION  NMOG AND FLEET AVERAGE INFORMATION  NMOG CH4 RAF  RAF  NMOG/NMHC RATIO  NMOG+NOX FLEET STD LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)  MMOG+NOX FLEET STD MDPV (g/mi)  NMOG+NOX FLEET STD MDPV (g/mi)  NMOG+NOX FLEET STD MDPV (g/mi)  MMOG+NOX FLEET STD MDPV (g/mi)  MMOG+NOX FLEET STD MDPV (g/mi)  MMOG+NOX FLEET STD MDPV (g/mi)  MDV (10,001-14,000 GVWR) (g/mi)	*			*				PAR	*					
EVAP/ORVR FAMILY  EVAPORATIVE STD CATEGORY  VEHICLE CLASS  SPECIAL FEATURES  *  EMISSION CREDIT INFORMATION  NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY  NMOG CREDIT FOR NON-PZEV ZERO-EVAP  NMOG CREDIT FOR DOR OPTIONAL EXH. STD FOR WORK TRUCKS  NMOG AND FLEET AVERAGE INFORMATION  NMOG AND FLEET AVERAGE INFORMATION  NMOG CH4 RAF NMOG/NMHC RATIO  NMOG/NMHC RATIO  NMOG+NOX FLEET STD LDT (3751 LVW-8500 GVWR) (g/mi)  MMOG+NOX FLEET STD MOG+NOX FLEET STD LDT (3751 LVW-8500 GVWR) (g/mi)  MOG GVWR) (g/mi)			Е	VAPO	RATIVE &	REFUELING	(EVA	P/OR	VR) FAMILY	INFORMATIO	N			
EMISSION CREDIT INFORMATION  NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY  N N N N N N N N N N N N N N N N N N N	EVA	P / ORV	R FAMILY	EVA	PORATIVI	E STD CATE	SORY	,			s	PECIAL FEATURES		
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY  NMOG CREDIT FOR NON-PZEV ZERO-EVAP  NMOG CREDIT FOR DOR OPTIONAL EXH. STD FOR WORK TRUCKS  N  NMOG AND FLEET AVERAGE INFORMATION  NMOG CH4 RAF	I	KTYXR01	.07R12		L	EV 2		PC				*		
CREDIT FOR EXTENDED WARRANTY  NMOG CREDIT FOR NON-PZEV ZERO-EVAP  NMOG CREDIT FOR DOR  OPTIONAL EXH. STD FOR WORK TRUCKS  NMOG AND FLEET AVERAGE INFORMATION  NMOG CH4 RAF  RAF  NMOG/NMHC RATIO  NMOG+NOX FLEET STD LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)  MOG+NOX FLEET STD MOG/NMC (g/mi)						EMISSION CF	REDIT	INFO	RMATION					
NMOG AND FLEET AVERAGE INFORMATION  NMOG CH4 RAF NMOG/NMHC RATIO  NMOG+NOX FLEET STD LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)  NMOG+NOX FLEET STD LDT (3751 LVW-8500 GVWR) (g/mi)		CREDIT FOR EXTENDED NMOG CREDIT FOR NON-						ZEV NMOG CREDIT FOR DOR			R			
NMOG CH4 RAF NMOG/NMHC RATIO  NMOG+NOX FLEET STD LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)  NMOG+NOX FLEET STD LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)		N N							N N					
NMOG         CH4         NMOG/NMHC         RATIO         PC+LDT (0-3750 LVW)         LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)         MDV (10,001-14,000 GVWR) (g/mi)					NMOG	AND FLEET	AVE	RAGE	INFORMA	TION				
* * 1.04 * 0.072 0.083 *		NMOG CH4 NMOG/NMHC HCHO/NMHC PC+LDT				PC+LDT (0	-375	0 LVW) LDT (3751 LVW-8500			0	MDV (10,001-14,000		
	*	*	1.04		*	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.



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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.

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



GASOLINE -

CA PHASE 2

0.256

0.50

KTYXR0107R12

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### **ATTACHMENT**

				ND CERTIFICATION LEVELS
EVILATION	AND EVADO	DATIVE EMICCIAI	I CTANDADDC AR	ID CEDTIEICATION I EVELS
EXHAUST	ANIIPVAPU	RATIVE ENISSIT	I SI ANII ARII SAL	VIII. CERTIFICATION LEVELS

EXHAUST EMISSION STA	ANDARDS AND	CERTIFIC	ATION LEVELS	(FTP, HWFET	. 50°F, 20°F)

		EXH	AUST	EMISS	ION STAN	DARDS A	ND CE	RTIFIC	ATION	LEVELS	(FTP, HV	VFET	, 50°F, 20°	F)		
	FU	FUEL TYF		monoxi adjustm ORVR	de; NOx: onent factor; [g HC/gallo	xides of ni 2DHS/3D on dispense	trogen; Ì HS [g Ho ed]: on-b	HCHO: C/test]: coard r	formale 2/3 day efueling	dehyde; f ys diurna i vapor re	PM: partic +hot-soal covery; g	ulate k; RL : grar	non-CH4 Ho matter; RA [g HC/mi]: m; mg: milli pplemental	F: reactive running legram; mi:	vity oss;	
					OG+NOx (g/mi)		CO (g/mi)		-	NOx g/mi)		HCH (mg/		P (g/	M mi)	
				CERT	STD	CER	T ST	TD	CERT	STD	CEF	RT	STD	CERT	STD	
FTP@5	OK	*		*	*	*	,	4	* .	*	*		*	*	*	
FTP@I	GASOLINE TIER 2 UNLEADER		2	0.038	0.12	5 0.1	2	.1	*	*	*		11	*	0.01	
50°F @	AKI	OLINE - PHASE 2		0.062	0.25	0 0.4	2.	. 1	*	*	*		16			
						FUEL TYPE					NMOG+NOx (g/mi)			CO (g/mi)		
				·					C	ERT	STD		CERT		STD	
HWFE	T @ 50K				. *					*	*					
HWFE	T@UL		G	ASOLIN	NE - TIE	R 2 UNLE	ADED		0.	025	0.12	5				
20°F	@ 50K		GA	SOLIN	E-COLD C	O LOW O	CTANE						0.4		10.0	
				SFTP E	XHAUST	EMISSION	STAND	ARDS	AND C	ERTIFIC	ATION L	EVEI	LS			
				US06						SC03			CON	POSITE		
	FUEL	TYPE			HC+NOx (g/mi)	CO (g/mi)		PM g/mi)		C+NOx /mi)	CO (g/mi)	NN	IOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi	
@ 4K	TIE	TIER 2 UNLEADED		RT 0.03		0.9	0.9		0	.01	0.1					
					0.14	8.0			0	.20	2.7					
			CERT	Г	*	*		*		*	*		0.041	*	*	
@ UL	GASOLI TIEI UNLEA	2	STD	D *		*	* ,			*	*	0.090		*	*	
			BIN										0.120			
		WH	OLE V	/EHICL	E EVAPO	RATIVE E	MISSIO	N STA	NDARD	S AND	ERTIFIC	ATIC	N LEVELS	3		
						WHOLE V	EHICLE	EVAF	ORAT	YF TES:	LING					
	ORATIV	EF	UEL T	YPE	3DHS	(g/test) @	/test) @ UL			2DHS (g/test) @ UL			RL (g/mi) @ UL			
					CERT	STD	FEL.	CE	RT	STD	FE	L	CERT		STD	
						1										

0.65

0.000

0.05



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				FUEL ONLY EVAP & CANISTER BLEED									
EVAPORATIVE FAMILY	ORVR (g/g	gallon) @	UL	FUEL TYPE	3DHS RIG TEST (g/test) @ UL		2DHS RIG TEST (g/test) @ UL		BLEED CANISTE TEST (g/test) @				
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD			
KTYXR0107R12	GASOLINE - TIER 2 UNLEADED	IER 2 0.018		*	*	*		*	*	*			
	EFFECTIVE I	LEAK D	IAMET	ER STANDARI	D AND CE	RTIFICA	TION LEV	EL (INCH	HES)				
EVAPORATIVE	FAMILY	LEA	KFAMIL	Υ .	CE	RT			STD				
*			*			,			*	,			

\*: not 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: 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 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; 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; 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

### 2019 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
TOYOTA	YARIS	PC	1.5	SA6	KTYXR0107R12	1	F
TOYOTA	YARIS	PC	1.5	М6	KTYXR0107R12	1	F