## California Environmental Protection Agency

**⊘** Air Resources Board

TOYOTA MOTOR CORPORATION

Executive Order: A-014-0927

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

Page 1 of 4

Pursuant to the authority vested in the 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: 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 GROUP INFORMATION													
MODE	- I TE	EST GROUP		VEH	ICLE CLASS(E	5)	FUEL CATEGORY			F	FUEL TYPE		
2017	нт	YXV02.5P34			PC		HYBRID ELECTRIC VEHICLE				GASOLINE		
1	USEFUL	LIFE (miles)		V	EHICLE EMISSI	HICLE EMISSION CATEGORY			TERIM / IN	TERMEDI	RMEDIATE IN-USE STD		
EXH/ORVR EVAP					FTP	S	FTP		FTP		SFTP		
15	150000 150000			LEV	3 SULEV30	LEV 3 0	3 COMPOSITE		PM		NMOG+NOX AND PM		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL OBD STATUS										ENGINE DISPLACEMENT (L)			
1 SFI, EGR, EGRC, WR-HO2S, TWC(2), HO2S FULL *													
*			*				PARTIAL ALL MODELS			11	2.5		
*	* PARTIAL WITH FINES												
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION													
EVA	P / ORV	VE STD CATE	ORY	RY EVAP EMISSION STD VEHICLE CLASS			SPECI	SPECIAL FEATURES					
HTYXR0130A72 LEV 2					LEV 2	PC					HCT		
EMISSION CREDIT INFORMATION													
ALLOWANCÉ FOR TEST GROUP  BASELINE PZEV AT PZEV TZEV							NMOG CREDIT FOR NMOG CR NON-PZEV ZERO-EVAP DC			REDIT FOR	OPTIONAL EXH. STD FOR WORK TRUCKS		
	*	ALL	ıs	*	*			и и		N			
NMOG AND FLEET AVERAGE INFORMATION													
NMOG RAF	CH4 RAF	FTP NMOG/NMHC RATIO		O/NMH ATIO	PC+LDT (	NMOG+NOX FLEET S PC+LDT (0-3750 LVV (g/mi)				MD			
*	*	1.10	0	.055	0	.086		0.101			*		

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 NMOG+NOx and greenhouse gas Fleet Average (PC or LDT or MDPV) or "Vehicle Equivalent Credit" (MDV) compliance plan 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],

TOYOTA MOTOR CORPORATION

Executive Order: A-014-0927

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

Page 2 of 4

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).

### BE IT FURTHER RESOLVED:

Evaporative family HTYXR0130A72 is certified pursuant to 13 CCR Section 1976(b)(1)(G)3 and deemed to comply with the requirements of 13 CCR Section 1976(b)(1)(G)1 ["LEV III evaporative requirements"].

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

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

TOYOTA MOTOR CORPORATION

Executive Order: A-014-0927 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 3 of 4

						71	IAC	LIIAI	ENT			,				
EXHAL	JST	AND E	VAPO	RATI	VE E	VISS	ION S	ATA	DAR	OS AND	CERT	IFIC	ATION	LEVEL	3	
E	XHA	UST EN	ISSION	STAN	DARD	SAND	CERT	TIFIC/	ATION	EVELS	(FTP, HV	/FET,	50°F, 20	°F)		
FUEL	FUEL TYPE		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+NOx			CO			NOx					-	M	
		С			CI			)		STD	CER	T			STD	
1			*	*		*	*	_	*	*	*		*	*	*	
LEV3	GASOLINE- LEV3 E10		0145	0.03	0 0	. 05	1.0		*	*	*	4		*	0.003	
<	*		*	*		*	*		*	*	*		*			
			F	FUEL TYPE										CO (g/mi		
	TOLLT								CERT		STD		CERT	г	STD	
@ 50K				*							*					
@ UL			GASOI	INE-L	EV3 E	V3 E10			0.0055		0.030					
50K	COLI	O CO E	CO E10 REGULAR GASOLINE (TIER 3										0.41 10.0			
		SFT	PEXH	AUST	MISSI	ON ST	TANDA	RDS	AND C	ERTIFIC	ATION L	EVEL	S			
				US06					SC03				COMPOSITE ·			
FUEL TY	YPE		NMOG+NOx (g/mi)						NMOG+NOx (g/mi)		CO (g/mi)	1			PM (mg/mi)	
*	(	CERT	1	X	*	7				*	*					
S		STD	*		*	*			*		*					
ĈE		CERT	*	*		*			*	*	0.0107		0.05	*		
	SI		*		*	* 10		0	*		w	* 0.103		4.2	*	
В		BIN						richia.		5.00		0	.030	F. 137 - 1		
	WHO	LE VEH	ICLE E	VAPO	RATIVE	EMIS	SSION	STAI	NDARD	S AND C	ERTIFIC	ATIO	N LEVEL	S		
					WHOL	E VEH	HCLE	EVAP	ORATI	VE TEST	ING					
RATIVE	FUEL TYPE			3DHS (g/test) @ UL					2DHS (g/test)		@ UL		RL (g/mi) @ UL			
			С	CERT S		STD FE		CE	RT	STD	FEI	FEL		Т	STD	
130A72			10 1151		0.35	0.35 *		4	* 0.35		*		0.002		0.05	
RVR / FUE	EL OI	NLY / C	ANISTE	R BLE	ED EV	APOR	ATIVE	EMIS	SIONS	STANDA	RDS AND	CEF	RTIFICAT	ION LEV	ELS	
												& CANISTER B				
RATIVE	E ORVR (g/		g/gallon) @ UL		F	FUEL TYPE								BLEED CANISTER TEST (g/test) @ 4K		
	FUEL TYPE		CER	ST										CERT	STD	
130A72	TI	ER 2	1	3 0.2	ים ו	GASOLINE - CA PHASE 2		0.	01	0.0	*		0.0	*	*	
K C C C C C C C C C C C C C C C C C C C	GASOLING LEV3 E1  RATIVE ILY  RATIVE ILY  RATIVE ILY	FUEL TYPE  * GASOLINE LEV3 E10  * GASOLINE LEV3 E10  WHO RATIVE ILY  GASOLINE LEV3 E10  WHO RATIVE ILY  GASOLINE  GASOLINE  LEV3 E10  WHO RATIVE ILY  GASOLINE  FUEL TYPE   * GASOLINE  GASOLINE  GASOLINE  FUEL TYPE   * GASOLINE  GASOLINE  FUEL TYPE   * GASOLINE  GASOLINE  GASOLINE  FUEL TYPE   * GASOLINE  GASOLINE	FUEL TYPE  FUEL TYPE  GASOLINE- LEV3 E10  CERT  STO  CERT  ASOLINE- LEV3 E10  BIN  WHOLE VEH- RATIVE ILY  GASOLINE- CASOLINE- LEV3 E10  CERT  CASOLINE- CERT  ASOLINE- CERT  CASOLINE- CERT  CASOLINE- CERT  COLD CO E:  CERT  ASOLINE- CERT  CERT  COLD  CO	EXHAUST EMISSION  CH4: meth monoxide; adjustment ORVR [g H 1000 miles]  NMOG (g/n CERT * *  GASOLINE- LEV3 E10 0.0145  * * *  D 50K COLD CO E10 REG SFTP EXH.  UEL TYPE NMOG (g/n *  * CERT *  STD *  CERT *  STD *  ASOLINE- STD *  ASOLINE- STD *  ASOLINE- STD *  CERT *  CERT *  STD *  CERT *	FUEL TYPE  FUEL TYPE  FUEL TYPE  CH4: methane; NM monoxide; NOx: or adjustment factor; ORVR [g HC/gallod 1000 miles; F: deg 100	EXHAUST EMISSION STANDARDS  CH4: methane; NMOG: n monoxide; NOx: oxides o adjustment factor; 2DHS/ ORVR [g HC/gallon dispeted to the second of	EXHAUST EMISSION STANDARDS AND  CH4: methane; NMOG: non-Chmonoxide; NOx: oxides of nitro adjustment factor; 2DHS/3DHS ORVR [g HC/gallon dispensed] 1000 miles; F: degrees Fahreni 1000 mil	EXHAUST EMISSION STANDARDS AND CERT  CH4: methane; NMOG: non-CH4 orga monoxide; NOx: oxides of nitrogen; Hi adjustment factor; 2DHS/3DHS [g HC. ORVR [g HC/gallon dispensed]: on-bot of 1000 miles; F: degrees Fahrenheit; FT NMOG+NOX (g/mi) (g/mi)  CERT STD CERT STD  * * * * * * * * * * * * * * * * * * *	EXHAUST EMISSION STANDARDS AND CERTIFICA  CH4: methane; NMOG: non-CH4 organic gramonoxide; NOx: oxides of nitrogen; HCHO: adjustment factor; 2DHS/3DHS [g HC/test]: ORVR [g HC/gallon dispensed]: on-board re 1000 miles; F: degrees Fahrenheit; FTP: fee 1000 miles; FTP: fee 1000 miles	EXHAUST EMISSION STANDARDS AND CERTIFICATION I  CH4: methane; NMOG: non-CH4 organic gas; HC: monoxide; NOx: oxides of nitrogen; HCH0: formald adjustment factor; 2DHS/3DHS [g HC/test): 2/3 day ORVR [g HC/gallon dispensed]: on-board refueling 1000 miles; F: degrees Fahrenheit; FTP: federal test	EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS  CH4: methane; NMOG: non-CH4 organic gas; HC: hydrocar monoxide; NOx: oxides of nitrogen; HCH0: formaldehyde; padjustment factor; 27DHS/3DHS [g HC/lest]: 27d abys dimensional control of nitrogen; HCH0: formaldehyde; padjustment factor; 27DHS/3DHS [g HC/lest]: 27d abys dimensional control of nitrogen; HCH0: formaldehyde; padjustment factor; 27DHS/3DHS [g HC/lest]: 27d abys dimensional control of nitrogen; HCH0: formaldehyde; padjustment factor; 27DHS/3DHS [g/mi]: 27d abys dimensional control of nitrogen; HCH0: formaldehyde; padjustment factor; 27DHS/3DHS [g/mi]: g/mi]: g/mi]	EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HW monoxide; NOx. oxides of nitrogen, HCHO: formaldehyde; PM: particle adjustment factor; 2DHS/3DHS (gHC/test); 20; days diumal-hot-soal-ORVR [g HC/gallon dispensed]: on-board refueling vapor recovery; g: 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTE	EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFET, CH4: methane; NMOG: non-CH4 organic gas; HC: hydrocarbon; NMHC: nonoxide; NOx: oxides of nitrogen; HCH0: formaldehyde; PM: particulate radius adjustment factor; 2DHS/3DHS (g HC/test); 273 days diurnal+hot-soak; RL; ORVR (g HC/gallon dispensed): on-board refueling vapor recovery; g: gram 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP, sup 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP, sup 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP, sup 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP, sup 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP, sup 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP, sup 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP, sup 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP, sup 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP, sup 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP, sup 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP, sup 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP, sup 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP, sup 1000 miles; F: green Fahrenheit; FTP: federal test procedure; SFTP, sup 1000 miles; F: green Fahrenheit; FTP: federal test procedure; SFTP, sup 1000 miles; F: green Fahrenheit; FTP: federal test procedure; SFTP, sup 1000 miles; F: green Fahrenheit; FTP: federal test procedure; SFTP, sup 1000 miles; F: green Fahrenheit; FTP: federal test procedure; SFTP, sup 1000 miles; F: green Fahrenheit; FTP: federal test procedure; SFTP, sup 1000 miles; FTP: green Fahrenheit; FTP: federal test procedure; SFTP, sup 1000 miles; FTP: green Fahrenheit; FTP: federal test procedure; SFTP, sup 1000 miles; FTP: green Fahrenheit; FTP: federal test procedure; SFTP, sup 1000 miles; FTP: green Fahrenheit; FTP: federal test procedure; SFTP, sup 100	EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFET, 50°F, 20	EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFET, 50°F, 20°F)  CH4: methane; NMGG: non-CH4 organic gas; RC: hydrocarbon; NMHC: non-CH4 HC; CO: do non-xide; NOx xxides of introgen; HCHc formaldehyde; PM: particulate matter, RAF: reaction adjustment factor; 2DHS/3DHS [g HC/Rest]; 2/3 days diurnal+hot-soak; RL [g HC/ml]: running ORVR [g HC/gallon dispensed]: on-board refueling vapor recovery; grams; mg: milligram;	

TOYOTA MOTOR CORPORATION

Executive Order: A-014-0927

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

Page 4 of 4

@ Air Resources Board

\*: 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; PZEV: partial ZEV; AT PZEV: advanced technology PZEV; 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, 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

# 2017 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE			
TOYOTA	CAMRY HYBRID LE	PC	2.5	CV1	HTYXR0130A72	1	P	AT PZEV (TYPE E)			
TOYOTA	CAMRY HYBRID XLE/SE	PC	2.5	CV1	HTYXR0130A72	1	P	AT PZEV (TYPE E)			

