California Environmental Protection Agency

On Air Resources Board

TOYOTA MOTOR CORPORATION

Executive Order: A-014-0927-2 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 GRO	UP IN	FORMAT	ION							
MODEL		EST G	ROUP	VEH	ICLE CLASS(E	LE CLASS(ES)			FUEL CATEGORY			FUEL TYPE			
2017	нт	YXV02	.5P34		PC				ELEC	GASOLINE					
(JSEFUL	LIFE	(miles)	V	EHICLE EMISS	ION C	ATEGOR	Y	IN'	TERIM / INT	NTERMEDIATE IN-USE STD				
EXH	/ORVR								SFTP						
15	50000 150000 LEV3 SULEV30 LEV 3 COMPOS						SITE	PM			NMOG+NOX AND PM				
SPE	CIAL FE	ATUR		AUST EMIS	SION CONTRO	L	J	OBD S	TATU	S	ENGINE	DISPLACEMENT (L)			
1 SFI, EGR, EGRC, WR-HO2S, TWC(2), HO2S								Ľ.	* * * *		2.5				
*	*							PARTIAL ALL MOD							
*	* PARTIAI									*					
			EV	APORATIVE	& REFUELING	(EVA	P/ORVR)	FAMILY	INF	ORMATION		201000000000000000000000000000000000000			
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGO							PRY EVAP EMISS				SPECIA	SPECIAL FEATURES			
н	TYXR01	30A72	2		LEV 2	EV 2 PC					HCT				
					EMISSION C	REDIT	INFORM	ATION			-				
	A	LLOW	ANCE FO	R TEST GR	OUP		NMOG CR			NMOG CR		OPTIONAL EXH.			
BASE	LINE P	ZEV	AT	PZEV	TZEV	NC	NON-PZEV ZERO-		EVAP DOF		R	TRUCKS			
	*		SOME	MODELS	*	N			N			N .			
				NM	OG AND FLEE	TAVE	RAGE IN	FORMA	TION			<u> </u>			
NMOG RAF	DAE DAE NM		FTP IOG/NMHC RATIO		PC+LDT	NMOG+NOX FLE PC+LDT (0-3750 (g/mi)		LDT		+NOX FLEET STD (3751 LVW-8500 R) + MDPV (g/mi)		NOX FLEET STD ((10001-14000 VWR) (g/mi)			
*	*		1.10	0.055	(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.

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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).

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.

This Executive Order hereby supersedes Executive Order A-014-0927-1 dated August 23, 2016.

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

Executed at El Monte, California on this ___

__ day of September 2016

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

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							A	TTAC	HME	ENT							
	EXHA	UST	AND	EVAF	POR	ATIVE	EMIS	SION S	TAN	DARD	S AND	CERT	FIC	ATION	LEVE	S	
-	•	EXH.	AUST E	MISSI	ON S	TANDA	RDS AN	ND CERT	IFICA	TION L	EVELS	(FTP, HW	FET,	50°F, 20)°F)		
デ (c) (i	FUE	FUEL TYPE		onoxide ljustme RVR [g	e; NC ent fa HC/	0x: oxide ctor; 2D gallon d	es of nitr HS/3DH ispense	rogen; HC IS [g HC/i d]: on-boa	test]: 2 ard re	formalde 2/3 days fueling	ehyde; P s diurnal- vapor red	bon; NMH M: particu +hot-soak covery; g: ure; SFTP	ilate i ; RL gram	matter; R g HC/mi i; mg: mi	AF: read]: running ligram; r	tivit	y ss;
				NMOG+NOx (g/mi)		Ох	CO (g/mi)			N(g/	1	HCH mg/n	,		PM (g/mi)		
	1.54			CERT			CERT	STD		CERT			T	STD	CERT		STD
FTP@5)K	*		*		*	*	*		*	*	*		*	*	*	
FTP@L		OLIN V3 E	1 0	.0145	0	.030	0.05	1.0		*	*	*		4	*		0.003
50°F @4	1K	*		*		*	*	*		*	*	*		*			
	* ,			FUEL TYPE								x (g/mi)		CO (g/r			
8 - " 1, ";				10221112						CERT		STD		CER	T	STD	
HWFET	@ 50K			*						,	* *						
HWFE	HWFET @ UL			GASOLINE-LEV3 E10						0.0055 0.03							
20°F @ 50K COLD CO E10					E10 REGULAR GASOLINE (TIER3)								Washington and	0.41 10.0			
			SF	TP E	(HAL	JST EM	ISSION	STANDA	RDS	AND C	ERTIFIC	ATION LI	EVEL	S			
17 - 2- 1			10 July 1	US06						SC03 COMPOSITE							
	FUEL T	UEL TYPE				OG+NOx (g/mi)		PN (mg/		NMOG+NOx (g/mi)		CO (g/mi)	1	NMOG+NOx (g/mi)		i)	PM (mg/mi)
@ 4K	*	, c		*			*			*		*					
@ ···			STD	*			*		*		*	*	42 (4) (4)				
		GASOLINE- LEV3 E10 B		*			* *			*		*	0.0107		0.0	5	*
@ UL				D *			*	10		* .		*		0.103		2	*
				R/a	ā					100 m				0.030		NÝL.	
		W	OLE VE	HICL	E EV	APORA	TIVE E	MISSION	STAN	NDARD	SAND	ERTIFIC	ATIO	N LEVE	LS		
						W	HOLE V	EHICLE	EVAP	ORATI	VE TEST	ING		_		_	
	FAMILY		FUEL TYP		PE 3DHS (g/test) @ UL					2DHS	(g/test)	@ UL		R	L (g/mi)	(g/mi) @ UL	
				CERT		RT S	STD	FEL	CE	RT STD		FEL		CEF	RT	S	
HTYXR0130A72		2	ASOLIN A PHAS	10 1151 0		.35 *		*	* 0.35		*	* 0		0.0		.05	
(RVR / F	UEL	ONLY /	CANIS	TER	BLEED	EVAPO	DRATIVE				RDS AND				VE	LS
EVAPORATIVE		E	ORVR ((g/gallon) @ UL						UEL ONLY EVAI OHS RIG TEST		P & CAN 2DHS			TEST BLEED CANIS		
	FAMILY						FUEL	TYPE	-	(g/test) @ UL		(g/test) (ST (g/test) @ 4H	
		-	JEL TYP	_					CE	ERT STD		CERT	-	STD	CERT	-	STD
HTYXR0130A72		2	SOLINE TIER 2 NLEADE	0.	0.043 0.20		GASOLINE - CA PHASE 2		0.	.01 0.0		* 0		0.0 *			*

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: 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	MAKE MODEL		ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE		
LEXUS	ES 300H	PC	2.5	scv6	HTYXR0130A72	1	P	*		
TOYOTA	AVALON HYBRID	PC	2.5	scv6	HTYXR0130A72	1	P	*		
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)		