California Environmental Protection Agency

TOYOTA MOTOR CORPORATION

EXECUTIVE ORDER A-014-0839

Air Resources Board

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 1 of 2

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC), Div. 26, Part 5, Chap. 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 & 39516 and Executive Order G-02-003;

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.

YEAR	TEST GROUP	VEHICLE TYPE	EXHAUST EMISSION STANDARD CATEGORY	USEFUL LIFE (miles)		FUEL TYPE		
2014	ETYXV02.5CC4 Passenger Car		"LEV II" Super Ultra Low Emission Vehicle (LEV II	EXH / ORVR	EVAP	- Gasoline plus Battery-Assist		
	ETTXV02.5004	Passenger Gal	SULEV)	120K	150K	Gasonne plus Dattery-Ass		
No.	ECS & SP	ECIAL FEATURES	EVAPORATIVE FA	EVAPORATIVE FAMILY (EVAF)				
1	TWC(2), AFS, HO2S	S, SFI, EGR, EGRC, OBD(P)	ETYXR013	-	2.5			
*		*	•	E				
*		*	*	Carlos Carlos				

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:

That the exhaust and the 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 or NMOG+NOx, as applicable, Fleet Average" (PC or LDT or MDPV) or "Vehicle Equivalent Credit" (MDV) compliance plan shall be equalized as required.

BE IT FURTHER RESOLVED:

That 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 Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model PC, LDT and MDV).

BE IT FURTHER RESOLVED:

The test group listed in this Executive Order is certified conditionally on the manufacturer providing data to demonstrate compliance with California's greenhouse gas fleet average emission standard (CA GHG Standard) specified in Title 13, California Code of Regulations, (13 CCR) Section 1961.1 and the incorporated California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles, amended March 29, 2010 (CA Test Procedures). The manufacturer has elected, under 13 CCR Section 1961.1(a)(1)(A)(ii) and under Section E.2.5.1(ii) of the CA Test Procedures, to demonstrate compliance with the CA GHG Standard by demonstrating compliance with the National greenhouse gas program (National GHG Program). Therefore, the test group listed in this Executive Order is certified conditionally further on the manufacturer complying with the requirements specified in said provisions in 13 CCR, and Sections E.2.5.1(ii) and H.4.5(b) and H.4.5(c) of the CA Test Procedures (among other things, concerning data and information submission, timing, and format as specified by the Executive Officer). Failure to comply with the certification requirements to demonstrate compliance with CA GHG Standard by demonstrating compliance with the National GHG Program under said provisions in 13 CCR and CA Test Procedures may be cause for the Executive Officer to revoke the Executive Order. Vehicles in the revoked Executive Order shall be deemed uncertified and subject to penalties authorized under California law. Notwithstanding the requirement herein, a manufacturer that becomes, after MY2009, a large-volume manufacturer, as defined in 13 CCR Section 1900, is not required to comply with the CA GHG Standard until the beginning of the fourth model-year from becoming a large-volume manufacturer. Additionally, notwithstanding the requirement herein, a small-volume manufacturer, independent low-volume manufacturer, or intermediate volume-manufacturer, as defined in 13 CCR Section 1900, is not required to comply with CA GHG Standard during model-years (MY) 2012 through 2015.

BE IT FURTHER RESOLVED:

The listed vehicle model is granted a 0.002 g/mi exhaust NMOG credit pursuant to 13 CCR Section 1961(a)(11) [optional zero-fuel evaporative emissions] for all certification and in-use testing. The NMOG certification level shown in this Executive Order does not have any credit applied.

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 5th

day of September 2013.

Erik White, Chief Mobile Source Operations Division

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OB Air Resources Board

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ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

(For bi-, dual- or flexible-fueled vehicles, the STD and CERT in parentheses are those applicable to testing on gasoline test fuel.)

			NMOG @ RAF=* CH4 RAF = * NMOG or		HCHO=for	maldehyde; I	PM=particul	late matter;	RAF=reac	tivity adjustr	nent facto	r; 2/3 D [g/te	st]=2/3 day		
CERT	STD	NMOG	NMHC	NMHC		(=1000 miles								ram; mg=mill	gram
0.078 0.107	CERT	CERT	STD [g/mi]	CO [g/mi]		NOx [g/mi]			HCHO [mg/mi]		PM [g/mi]		Hwy NOx [g/mi]		
	0.107	[g/mi] [g/	[g/mi]	[g/m]	CERT	STD	CERT	STD	CE	RTS	TD	CERT	STD	CERT	STD
	@ 50K	*	*	*	*	*	*	*	*		*	*	*	*	*
	@ UL	0.008	*	0.010	0.1	1.0	0.002	0.02			4.	*	0.01	0.003	0.03
0	50°F & 4K	*	*	*	*	. *	*	*			*	*	*	*	*
CO [g/mi] @ 20°F & 50K				NMHC+NOx [g/mi] (composite)					MHC+NOx CO [g/mi] /mi] [US06] [US06]			NMHC+NOx [g/mi] [SC03]		CO [g/mi] [SC03]	
		the second find	and states in a	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
CERT	0.7	SFTP @ 4	000 miles	*	*	*	*	0.02	0.14	0.0	8.0	0.005	0.20	0.04	2.7
STD	10.0	SFTP	@* miles	*	*	*	*	*	*	+	*	*	*	*	*
Evaporative Family (9			iurnal + Hot ns/test) @ U									On-Board Refueling Vapor Recovery (grams/gallon) @ UL			
		CERT	S	D	CERT	S	TD	CER	т	STD		CERT	-	STD	

	CERT	STD	CERT	STD	CERT	STD	CERT	STD	
ETYXR0130A42	0.12	0.35	*	0.35	0.002	0.05	0.04	0.20	
*	*	+	*	*	*	*	*	*	
*	*	R	*	*	*	*	*	*	
*	*	*	*	*	*	*	*	*	

* =not applicable; 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; ECS= emission control system; STD= standard; CERT= certification; LVW=loaded vehicle weight; ALVW=adjusted LVW; LEV=low emission vehicle; ULEV=ultra LEV; SULEV=super ULEV; TWC/OC=3-way/oxidizing catalyst; ADSTWC=adsorbing TWC; 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); HO2S/O2S=heated/oxygen sensor; WR-HO2S or AFS=Wide range/linear/heated air-fuel ratio sensor; NOXS= NOX sensor; RDQS=reductant quality sensor; NH3S = Ammonia sensor; PMS=particulate matter 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=direct fuel injection; TC/SC= turbo/super charger; CAC=charge air cooler; OBD (F)/(P)(B)=full/partial/both 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;

2014 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	EVAPORATIVE FAMILY	ECS NO.	ENGINE SIZE (L)	VEHICLE TYPE	SPECIAL FEATURES	OBD I
LEXUS	ES 300h	ETYXR0130A42	1	2.5	PC	· HCT	Partial
ΤΟΥΟΤΑ	AVALON HYBRID	ETYXR0130A42	1	2.5	PC	НСТ	Partia