

## TOYOTA MOTOR CORPORATION

EXECUTIVE ORDER A-014-0765 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.

MODE		EST (	GROU	P	VEHICLE TYPE (PC=passenger car; LDT=light-di MDV=medium-duty vehicle; LVW vehicle weight; GVW=gross	STAND (LEV=low of transitions	AUST EMISSION DARD CATEGORY emission vehicle; TLE II LEV; ULEV=ultra LE LEV=super ULEV)	V= /	EXHAUST & ORVR / EVAPORATIVE USEFUL LIFE (UL) (miles)  FUEL TYPE (CNG/LNG=compre liquefied natural LPG=liquefied petro gas)					
2012	ст	YXT	02.5BE	н	LDT <6,000 pounds GV (0-3750 # LVW; 3,751-5750		Ultra Low Emissio cle (LEVII ULEV)	n	120K / 150K	Gasoline				
No.		VAPORATIVE AMILY (EVAF)			SPECIAL FEAT EMISSION CONTROL		* = not applicable		OC/TWC=oxidizing/3-way cat. ADSTWC=adsorbing TWC WU= warm-up cat. O2S/HO2S=oxygen sensor/heated O2S AFS/HAFS=air-fuel ratio sensor/heated AFS EGR=exhaust gas recirculation AIR/PAIR=secondary air injection/pulsed					
1	CTYXR0	CTYXR0130A22			WU-TWC, TV	NC, AFS,F	102S, SFI, O	AFS/HA						
2	*	*								AIR MFI/SFI= multiport fuel injection/sequential MFI TBI= throttle body injection TC/SC=turbo /super charger				
3	*			3						CAC=charge air cooler OBD (F) / (P)=full /partial on-board diagnostic prefix 2=parallel (2) suffix=series				
4	*			4						stic prefix 2=parallel	(2) suffix=series			
EVAF No.	ECS No.	No. SIZE (L			VEHICLE MAKES & MODELS		CLES SUBJECT TO SFTP DARDS ARE <u>UNDERLINED</u>		ABBREVI	ABBREVIATIONS:				
1	1	1 2.5					Toyota	a (0-3750 # LVW): F	RAV4 2WD	AV4 2WD				
1	1	1 2.5			Toyota (3,751-5750 # LVW): RAV4 4WD									

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

	MOG F	FLEET E [g/mi]	NMOG @ RAF= * CH4 RAF = *		NMOG or NMHC STD	nitrogen	HCHO=for	maldehyde	PM=part	iculate m	natter	RAF=reactive	rbon CO=ca vity adjustme =on-board re	nt factor	2/3 D [g/test	]=2/3 day	
STD-L	STD-LDT1 STD-LDT2		NMOG	G NMHC		mg=millig			000 miles	F=deg	grees F	ahrenheit	SFTP=supp	lemental fe	deral test pr	rocedure	
	-	0.040	CERT		[g/mi]	CO	[g/mi]	NO	NOx [g/mi]		HCHO [mg/mi]		PM [g/mi]		Hwy NOx [g/mi]		
0.03	55	0.043	[g/mi]			CERT	STD	CERT	STE	CE	ERT	STD	CERT	STD	CERT	STD	
	@ 50K		0.018	*	0.040	0.2	1.7	0.02	0.05	5	*	8.	*	*	0.02	0.07	
		@ UL	0.025	*	0.055	0.3	2.1	0.03	0.07	7	*	11.	*	0.01	0.03	0.09	
编图	@	50°F & 4K		*	*	*		*	*		*	**	*	*	*	*	
CO [g/mi] @ 20°F &		SFTP 1 = @ 4K (SULEV, ULEV, LEV) or 50K (Tier 1, TLEV)						g/mi] posite)		NMHC+NOx [g/mi] [US06]		CO [g/mi] [US06]		NMHC+NOx [g/mi] [SC03]		CO [g/mi] [SC03]	
50		SFTP 2 = @ UL (Tier 1, TLEV)			CERT	STD	CERT	STD	CERT	STD	CE	RT ST	D CERT	STD	CERT	STD	
CERT	1.5		SI	FTP @ 4K	*	*		*	0.02	0.14	1.	.4 8.0	0.05	0.20	0.04	2.7	
STD	10.0		SF	FTP @ UL	*	*	*	*	*		1			*	*	*	
@ UL	-	EVAPORAT	IVE FAM	IILY 1	EVAPORATIVE FAMILY 2 E				EVA	EVAPORATIVE FAMILY 3				EVAPORATIVE FAMILY 4			
	3-D	2-D	RL	ORVR	3-D	2-D	RL	ORVR	3-D	2-D	RI	ORV	R 3-D	2-D	RL	ORVR	
CERT	0.20	0.23	0.004	0.02	*	*	*	*	*	*	*			*	*		
STD	0.65	5 0.85	0.05	0.20	*	*	*	*	*	*	*	· **	(*)	*	*	*	

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).



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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.

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 November 2011.

Annette Hebert, Chief

Mobile Source Operations Division