

TOYOTA MOTOR CORPORATION

EXECUTIVE ORDER A-014-0480 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

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.

MODEL YEAR	TEST GROUP VEHICLE TYPE		EXHAUST EMISSION STANDARD CATEGORY	USEFU (mi		IN- COMP (*=N/A or A/E=ex	MEDIATE USE LIANCE full in-use; h. / evap. iate in-use)	FUEL TYPE		
2004	4TYXT02.4WMH	LDT: 0-3750 Pounds LVW	Ultra Low Emission Vehicle (ULEV)	Itra Low Emission Vehicle (ULEV) EXH / ORVR EVAP EXH		EXH	EVAP	6"		
			` '	100K	100K	*	*	Gasoline		
No.		SPECIAL FEATURES	A. 5.00	EVAPORATIVE FAMILY (EVAF) DISPLACEMENT (L)						
1	WU-TWC, TWC	, HAFS, HO2S, SFI, OBD(P)	4TYXR0	115AK1						
•		*								
*		*		•	T.	2.4				
*		*		•						

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 Fleet Average" (PC or LDT) 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).

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 2003.

Allen Lyons, Chief

Mobile Source Operations Division

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

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 FLEET NMOG @ RAF=* AVERAGE [g/mi] CH4 RAF = *		I MINIOG OF	CH4=methane; NMOG=non-CH4 organic gas; NMHC=non-CH4 hydrocarbon; CO=carbon monoxide; NOx=oxides NMOG or HCHO=formaldehyde; PM=particulate matter; RAF=reactivity adjustment factor; 2/3 D [g/test]=2/3 day diurnal+ hot-soak; RL [g/rni]=running loss; ORVR [g/gallon dispensed]=on-board refueling vapor recovery; g=gram; mg=mil											
CERT	STD	NMOG	NMHC	NMHC	Inot-soak; R	L (d/mil≕run	nina loss: Of	₹VR lo/gallor	n dispensedi:	con-hoard ref	fueling vapor r al test procedu	ecovery and	ram; mg=milli	gram
0.042	0.042 0.053 [g/mi] [g/mi]		CERT [g/mi]	[g/mi]	CO [g/mi]		NOx [g/mi]		HCHO [mg/mi]		PM [g/mi]		Hwy NOx [g/mi]	
And the second			[9,]		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
	@ 50K	0.032	*	0.040	0.4	1.7	0.05	0.2	*	8.	•	*	0.02	0.3
	@ UL	0.042	*	0.055	0.4	2.1	0.1	0.3		11.	*	*	0.03	0.4
****** @	50°F & 4K	0.048	*	0.080	0.3	1.7	0.03	0.2	*	16.	*	•	*	*
	3	THE SHOW SHOW	Africa Cathal (adminis	MMHCTMC	l falmil	-100	/13	NAMES						

CO [g/mi] @ 20°F & 50K				NOx [g/mi] CO [g/mi] nposite) (composite)		NMHC+NOx [g/mi] [US06]		CO [g/mi] [US06]		NMHC+NOx [g/mi] [SC03]		CO [g/mi] [SC03]		
	U*F & 5UK	Section Parkets	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
CERT	1.7	SFTP @ 4000 miles	٠	*	*	*	0.03	0.14	1.8	8.0	0.06	0.20	0.02	2.7
STD	10.0	SFTP @ * miles	*	*	*	•	•	*	*	*			*	

Evaporative Family	3-Days Diurn (grams/te		2-Days Diurn (grams/te	al + Hot Soak est) @ UL	Runnin (grams/m		On-Board Refueling Vap Recovery (grams/gallon) @		
	CERT	STD	CERT	STD	CERT	STD	CERT	STD	
4TYXR0115AK1	0.4	2.0	0.8	2.5	0.01	0.05	0.001	0.20	
*	*	•	*	•	*	*	*	*	
•	•	+	*	*		•	+	-	
*	*	*		•	*	*			

* = not applicable; UL=useful life; PC=passenger car; LDT=light-duty truck; MDV=medium-duty vehicle; ECS= Emission Control System; STD= Standard; CERT= Certification; LVW=loaded vehicle weight; ALVW=adjusted LVW; LEV=low emission vehicle; TLEV=transitional LEV; ULEV=ultra LEV; SULEV=super ULEV; TWC=3-way catalyst; ADSTWC=adsorbing TWC; WU=warm-up catalyst; OC=oxidizing catalyst; O2S=oxygen sensor; HO2S=heated O2S; AFS/HAFS=air- fuel ratio sensor / heated AFS; EGR=exhaust gas recirculation; AIR=secondary air injection; PAIR=pulsed AIR; MFI= multiport fuel injection; SFI=sequential MFI; TBI=throttle body injection; TC/SC= turbo/super charger; CAC=charge air cooler; OBD (F)/(P)=full/partial on-board diagnostic; DOR=direct ozone reducing; prefix 2=parallel; (2) suffix=series; CNG/LNG= compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85="85%" Ethanol Fuel;

2004 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	EVAPORATIVE FAMILY	ECS NO.	ENGINE SIZE (L)	IN- COMP (*=N/A or A/E=ex	MEDIATE USE LIANCE full in-use; h. / evap. ate in-use)	PHASE-IN STD.	OBD II
					EXH	EVAP		
TOYOTA	RAV4 2WD	4TYXR0115AK1	1	2.4	*	*	SFTP	Partial
тоуота	RAV4 4WD	4TYXR0115AK1	1	2.4	*	*	SFTP	Partiai