

TOYOTA MOTOR CORPORATION

EXECUTIVE ORDER A-014-0539

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

Code (USC) Div 26 Part 5 Char 2

oursuant 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	IEDIATE USE LIANCE full in-use; h. / evap. late in-use)	FUEL TYPE
2006	6TYXT03.5PEM	LDT: <6000# GVW, 3751-5750#	"LEV II" Ultra Low Emission Vehicle (LEV II	Emission Vehicle (LEV II ORVR		EXH EVA		Gasoline
		LVW	ULEV)	120K	150K	А	E	Gasonne
No.	ECS &		EVAPORATIVE FAMILY (EVAF) DISPLACEMENT (
1	2WU-TWC,TWC	6TYXR0	6TYXR0130A22					
*		*	*					
•		•	*	,		3	.5	
*		•	•	*				

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.

3E 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 December 2005.

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 F AVERAGE			@ RAF=* !AF = *	NMOG or	CH4=methane; NMOG=non-CH4 organic gas; NMHC=non-CH4 hydrocarbon; CO=carbon monoxide; NOx=oxides of nitroc HCHO=formaldehyde; PM=particulate matter; RAF=reactivity adjustment factor; 2/3 D [g/test]=2/3 day diurnal+										
CERT	STD	NMOG	NMHC	NMHC STD		ot-soak; RL [g/mi]=running loss; ORVR [g/gallon dispensed]=on-board refueling vapor recovery; g=gram; mg=milligram ni=mile; K=1000 miles; F=degrees Fahrenheit; SFTP=supplemental federal test procedure									
0.047	0.047 0.062 CERT CERT			[g/mi]	CO [g/mi]		NOx [g/mi]		HCHO [mg/mi]		PM [g/mi]		Hwy NOx [g/mi]		
0.041	0.002	[g/mi]	[g/mi]		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	
	@ 50K	0.020	*	0.040	0.2	1.7	0.02	0.05	*	8.	*	*	0.02	0.07	
	@ UL	0.022	*	0.055	0.2	2.1	0.03	0.07	*	11.	•	*	0.03	0.09	
0	50°F & 4K	+		•	*	*	•	*	*	*	•	•	*	*	

CO [g/mi]		LANGE OF STREET		Ox [g/mi] oosite)		g/mi] posite)		+NOx [US06]	co [CO [g/mi] [SC03]	
@ 2	0°F & 50K		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
CERT	0.9	SFTP @ 4000 miles	*	•	•	*	0.03	0.25	1.2	10.5	0.02	0.27	0.01	3.5
STD	12.5	SFTP @ * miles	*	•	*	•		*	*	*	*	*	*	•

Evaporative Family		al + Hot Soak est) @ UL		nal + Hot Soak est) @ UL		ng Loss nile) @ UL	On-Board Ref Recovery (gram	
	CERT	STD	CERT	STD	CERT	STD	CERT	STD
6TYXR0130A22	0.20	0.65	0.23	0.85	0.004	0.05	0.02	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; DGI=direct gasoline fuel injection; TC/SC= turbo/super charger; CAC=charge air cooler; OBD (F)/(P)=ful/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;

2006 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	EVAPORATIVE FAMILY	ECS NO.	ENGINE SIZE (L)	IN-I COMPI (*=N/A or A/E=ext	LIANCE full in-use; n. / evap. ate in-use)	PHASE-IN STD.	OBD II
					EXH EVAF	EVAP		
TOYOTA	RAV4 2WD	6TYXR0130A22	1	3.5	A	E	SFTP	Full
TOYOTA	RAV4 4WD	6TYXR0130A22	1	3.5	A	E	SFTP	Full