

### **TOYOTA MOTOR CORPORATION**

**EXECUTIVE ORDER A-014-0585-2** 

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	I LEST GROUP   VEHICLE TYPE		EXHAUST EMISSION STANDARD CATEGORY	USEFU (mi		COMF ("=N/A or A/E=ex	MEDIATE -USE -LIANCE -full in-use; -full evaplate in-use)	FUEL TYPE	
2008	8TYXT03.5BEM	LDT: <6000# GVW, 3751-5750#	"LEV II" Ultra Low Emission Vehicle (LEV II	EXH / ORVR	EVAP	EXH	EVAP	Gasoline	
2. Side		LVW	ULEV)	120K 150K		•	*	Gasonne	
No.		SPECIAL FEATURES	EVAPORATIVE FAMILY (EVAF) DISPLACEMENT (L)						
1	2WU-TWC,TW	C, 2AFS,2HO2S, SFI, OBD(P)	8TYXR0	130A22			· · · · · · · · · · · · · · · · · · ·		
•		•	8TYXR0	165P22					
*		*	(2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	<del></del>		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.

#### 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.

This Executive Order hereby supersedes Executive Order A-014-0585-1 dated May 17, 2007.

Executed at El Monte, California on this 20 day of July 2007.

Annette Hebert, 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.)

	AVERAGE [g/ml] CH4 RAF = *		1	IMOG or NMHC on the state of th										
CERT	STD	NMOG	NMHC								ueling vapor r		ram; mg=millig	gram
0.047	0.050	CERT [g/mi]	CERT [g/mi]	[g/mi]	CO [g/ml]		NOx [g/mi]		HCHO [mg/mi]		PM [g/mi]		Hwy NOx [g/mi]	
			(a)		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
	@ 50K	0.028	*	0.040	0.3	1.7	0.02	0.05	•	8.			0.01	0.07
· 对第一	@ UL	0.032	•	0.055	0.3	2.1	0.02	0.07	•	11.	•	0.01	0.01	0.09
<b>4 1 0</b>	50°F & 4K	*	•	*	*	•	*	•	*		*	*	-	*

	O [g/mi] 0°F & 50K			Ox [g/mi] osite)	CO [	g/mi] posite)		+NOx [US06]	co [	g/mi] i06]		+NOx [SC03]	CO [	
		 The second secon	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
CERT	1.4	SFTP @ 4000 miles	*	*	-	•	0.02	0.25	0.6	10.5	0.01	0.27	0.0	3.5
STD	12.5	SFTP @ * miles	*	*	•	•	•	*	-	*	+	*	*	*

Evaporative Family		al + Hot Soak est) @ UL		al + Hot Soak est) @ UL		g Loss ille) @ UL	On-Board Ref Recovery (gram	d Refueling Vapor grams/gallon) @ UL		
	CERT	STD	CERT	STD	CERT	STD	CERT	STD		
8TYXR0130A22	0.20	0.65	0.23	0.85	0.00	0.05	0.02	0,20		
8TYXR0165P22	0.24	0.65	0.24	0.85	0.00	0.05	0.02	0.20		
*	•	+	*	•	*	*	*	*		
*		•	*	•	+	*	*	<del>  - , -</del>		

\* = 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; AR=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

## 2008 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. late in-use)	PHASE-IN STD.	OBDII
					EXH	EVAP	1	
LEXUS	RX 350 2WD	8TYXR0165P22	1	3.5	•	*	SFTP	Partial
LEXUS	RX 350 4WD	8TYXR0165P22	1	3.5	•	•	SFTP	Partial
ТОҮОТА	HIGHLANDER 2WD	8TYXR0165P22	1	3.5	*	•	SFTP	Partial
TOYOTA	HIGHLANDER 4WD	8TYXR0165P22	1	3.5	*	•	SFTP	Partial
TOYOTA	RAV4 2WD	8TYXR0130A22	1	3.5	•	*	SFTP	Partial
ТОУОТА	RAV4 4WD	8TYXR0130A22	1	3.5	•	*	SFTP	Partial
TOYOTA	SIENNA 2WD	8TYXR0165P22	1	3.5	*		SFTP	Partial
TOYOTA	SIENNA 4WD	8TYXR0165P22	1	3.5	*	*	SFTP	Partial