		EXECUTIVE ORDER A-014-0567
California Environmental Protection Agency	TOYOTA MOTOR CORPORATION	New Passenger Cars, Light-Duty Trucks
AIR RESOURCES BOARD		and Medium-Duty Vehicles
AITTEOO		

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 (mil		IN-I COMP (*=N/A or A/E=ex	IEDIATE USE LIANCE full in-use; h. / evap. ate in-use)	FUEL TYPE			
		LDT: <6000# GVW, 3751-5750#	"LEV II" Low Emission Vehicle (LEV II LEV)	EXH / EVAP		EXH	EVAP	Gasoline			
2007	7TYXT02.4AHN	į LVW		120K	150K	+	+				
No.		SPECIAL FEATURES	EVAPORATIVE	EVAPORATIVE FAMILY (EVAF)				DISPLACEMENT (L)			
1	WU-TWC,TM	C, AFS,HO2S, SFI, OBD(F)	7TYXR0	165P22							
*		*		*							
*		*		•							
•	••• •••	+		•				<u>_</u>			

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 August 2006.

Annette Hebert, Chief Mobile Source Operations Division

California Environmental Protection Agency AIR RESOURCES BOARD

ΤΟΥΟΤΑ

TOYOTA

HIGHLANDER 2WD

HIGHLANDER 4WD

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.)

CERT S1D NMOC NMMC STD Imitmite, K=1000 miles, F=26grees Fahrenelt, STP=supplemental federal test procedure Construction 0.052 0.055 (g/mi) (g/mi) (G/mi) NOX (g/mi) PHO(mi) PM (g/mi) Hwy NOX (g/mi) (g) 50K 0.029 0.075 0.3 3.4 0.02 0.05 15. 0.04 C (g) 50K 0.029 0.075 0.3 3.4 0.02 0.05 15. 0.04 C (g) UL 0.037 0.090 0.4 4.2 0.04 0.07 18. 0.06 (g) UL 0.037 (g/mi) CO [g/mi] NMHC+NOx (CO [g/mi] NMHC+NOX (CO [g/mi] NMHC+NOX [g/mi] [JSC03] [SC03] [SC03	NMOG FLEET NMOG @ R AVERAGE [g/mi] CH4 RAF		AF = *	NMOG or NMHC	HCHO=for	maldehyde;	PM=particul	ate matter;	RAF =read	tivity adjust	stment facto	or: 2/3 D (a/	/testl=2/3	de; NOx=oxides day diumal+	-		
0.052 0.055 Ig/mit (g/mit) CERT (g/mit) Top (g/mit) NOX (g/mit) NOX (g/mit) PM (g/mit) Hwy NOX (g/mit) @ 50% 0.028 - 0.075 0.3 3.4 0.02 0.05 15. - - 0.04 CERT STD CO (g/mit) NMHC+NOX 0.04 CO (g/mit) NMHC+NOX CO (g/mit) NMHC+NOX CO (g/mit) (g/mit) (SC03) (g/C03) (SC03) (G/C03) (SC03) (SC03) (SC03) (SC03) (SC03) (SC03)	CERT	STD	NMOG			mi=mile; M	(=1000 miles	; F=degrees	s Fahrenhei	it; SFTP=s	upplement	al federal t	est procedu	iecovery; ure	g=gram; mg=mi	ligram	
Low mu Low mu Low mu CERT STD CERT												/mi]	PM [[g/mi]	Hwy N	Ox [g/mi]	
Q UL 0.037 • 0.090 0.4 4.2 0.04 0.07 • 18. • • 0.06 C Q 050°F & 4K •			(g/mij	[g/mi]	[]	CERT	STD	CERT	STD	CE	RT	STD	CERT	STD	CERT	STD	
CO Cub Cub <td></td> <td></td> <td>0.029</td> <td>*</td> <td>0.075</td> <td>0.3</td> <td>3.4</td> <td>0.02</td> <td>0.05</td> <td>; I</td> <td></td> <td>15.</td> <td>•</td> <td>+</td> <td>0.04</td> <td>0.07</td>			0.029	*	0.075	0.3	3.4	0.02	0.05	; I		15.	•	+	0.04	0.07	
CC [g/m] @ 20*F & 50K NMHC+NOx [g/mi] (composite) CO [g/mi] [g/mi] [US06] NMHC+NOx [g/mi] [US06] NMHC+NOx [g/mi] [SC03] CO [g/mi] [g/mi] [SC03] ERT 2.2 SFTP @ 4000 miles • • • 0.02 0.25 1.1 10.5 0.01 0.27 0.0 STD 12.5 SFTP @ * miles •			0.037	*	0.090	0.4	4.2	0.04	0.07		•	18.	*	*	0.06	0.09	
CO [g/m] (composite) (g/mi] US06] (g/mi] (S03) [SC3) Q 20*F & 50K CERT STD		2) 50°F & 4K	*	*	•	*	*	*	*		h	*	*	*	*	+	
CERT STD CE			诸学习												CO [g/mi] [SC03]		
Ext Ext of the wood nimes 0.02 0.01 0.27 0.01 112.5 SFTP @* miles * <	@ 20°F	G DUN P			CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	г ят	D CERT	STD	
STD 12.5 SFTP @* miles *<	ERT	2.2	SFTP @ 4	000 miles	*	٠	•	*	0.02	0.25	1.1	10.5	0.01	0.2	7 0.0	3.5	
Evaporative Family (grams/test) @ UL (grams/test) @ UL (grams/mile) @ UL Recovery (grams/gallon) @ CERT STD CERT	STD	12.5	SFTP	@ * miles	•	*	*	+	*	*	+	•	•	*	*	*	
TYXR0165P22 0.24 0.65 0.25 0.85 0.00 0.05 0.02 0.20 *						t Soak JL							R	On-Board Refueling Vapor Recovery (grams/galion) @ UL			
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * <td colspan="2">CERT</td> <td>CERT</td> <td>5</td> <td colspan="2">STD CERT</td> <td>S</td> <td colspan="2">STD</td> <td colspan="2">CERT S</td> <td></td> <td>CERT</td> <td>•</td> <td colspan="2">STD</td>	CERT		CERT	5	STD CERT		S	STD		CERT S			CERT	•	STD		
Image: State intermediate in-use) Image: State intermediate in-use) MAKE MODEL	7TYXR0165P22 0			0.	65 0.25		0	0.85		0.00 0.05			0.02		0.20		
Image: State intermediate in-use) Image: State intermediate in-use) Image: State intermediate in-use) Image: State intermediate in-use)	*		*	}	*			*					*		*		
= not applicable; UL=useful life; PC=passenger car; LDT=light-duty truck; MDV=medium-duty vehicle; ECS= Emission Control System; STD= Standard; CERT= Certification; VW=loaded vehicle weight; ALVW=adjusted LVW; LEV=low emission vehicle; TLEV=transitional LEV; ULEV=ultra LEV; SULEV=super ULEV; TWC=3-way catalyst; USTWC=adsorbing TWC; WU=warm-up catalyst; O2S=oxidizing catalyst; 02S=oxygen sensor; HO2S=heated O2S; AFS/HAFS=air-fuel ratio sensor / heated AFS; EGR=exha. as recirculation; AIR=secondary air injection; PAIR=pulsed AIR; MFI= multiport fuel injection; SFI=sequential MFI; TBI=throttle body injection; DGI=direct gasoline fuel injection; C/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= ompressed/liquefied natural gas; LPG=liquefied petroleum gas; E85="85%" Ethanol Fuel; 2007 MODEL YEAR: VEHICLE MODELS INFORMATION MAKE MODEL EVAPORATIVE FAMILY ECS ENGINE NO. ENGINE NO. ENGINE SIZE (L) INTERMEDIATE (L) PHASE-IN OF STD. OF							*		*	*		*		*		*	
WW=loaded vehicle weight; ALVW=adjusted LUW; LEV=low emission vehicle; TLEV=transitional LEV; ULEV=ultra LEV; SULEV=super ULEV; TWG=3-way catalyst; LDSTWC=adsorbing TWC; WU=warm-up catalyst; OC=oxidizing catalyst; O2S=oxygen sensor, HO2S=heated O2S; AFS/HAFS=air-fuel ratio sensor / heated AFS; EGR=exhau as recirculation; AlR=secondary air injection; PAIR=pulsed AIR; MFI= multiport fuel injection; SFI=sequential MFI; TBI=throttle body injection; OBD (F)/(P)=full/partial on-board diagnostic; DOR=direct ozone reducing; prefix 2=parallel; (2) suffix=series; CNG/LNG=ompressed/liquefied natural gas; LPG=liquefied petroleum gas; E85="85%" Ethanol Fuel; VEHICLE MODELS INFORMATION MAKE MAKE MODEL EVAPORATIVE FAMILY ECS NO. ENGINE SIZE (L) INTERMEDIATE IN-USE COMPLIANCE ("=N/A or full in-use; AFE=exh./ avap Intermediate in-use) PHASE-IN STD. OE		*		+		* *			*		* *		*		*		
MAKE MODEL EVAPORATIVE FAMILY ECS NO. ENGINE (*=NA or full in-use; (L) INTERMEDIATE IN-USE COMPLIANCE (*=NA or full in-use; (L) Intermediate in-use)	LVW=load ADSTWC= gas recircu FC/SC= tu	ed vehicle we adsorbing TM lation; AIR=se rbo/super cha	ight; ALVW = /C; WU≍ war econdary air rger; CAC =cl	adjusted LVW m-up catalyst; injection; PAII harge air cool	; LEV=low OC=oxidizi R=pulsed Al er; OBD (F)	emission ve ng catalyst; R; MFI= m /(P)=full/par	hicle; TLEV O2S=oxyg Itiport fuel i tial on-boar	/=transition en sensor, l njection; SI d diagnosti	al LEV; UL HO2S=hea Fl=sequen	.EV=ultra ated O2S; tial MFI; T	LEV; SUI AFS/HAI BI=throtti	EV=super S=air- fue e body inje	r ULEV; T el ratio sen ection: DG	NC=3-wa sor / heat l=direct o	iy catalyst; led AFS; EGR: jasoline fuel ini	exhaust	
MAKE MODEL EVAPORATIVE FAMILY ECS NO. ENGINE COMPLIANCE (*=N/A or full in-use; AE=exh. / svap. intermediate in-use) FAMILY ECS NO. IN-USE COMPLIANCE COMPLIANCE (*=N/A or full in-use; Intermediate in-use) FAMILY ECS NO. ENGINE COMPLIANCE COMPLIANCE SIZE IN-USE STD. FAMILY FAMILY ECS NO. ENGINE COMPLIANCE SIZE IN-USE FAMILY ECS NO. ENGINE COMPLIANCE SIZE IN-USE FAMILY FAMILY ECS NO. ENGINE COMPLIANCE FAMILY ECS NO. ENGINE COMPLIANCE FAMILY ECS FAMILY E				20		EL YE	AR: VE	EHICLE		ELS IN	IFOR	ΙΑΤΙΟ	N				
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