VOLVO CAR CORPORATION

EXECUTIVE ORDER A-018-0142

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	EXHAUST EMISSION USEFUL LIFE COMPLIANC STANDARD CATEGORY (miles) (*=N/A or full in-1 A/E=exh. / eva intermediate in-		USE LIANCE full in-use; h. / evap.	FUEL TYPE			
			"LEV II" Super Ultra Low Emission Vehicle (LEV II	EXH / ORVR	EVAP	EXH	EVAP			
2007	7VVXV02.4S2N	Passenger Car	SULEV)	150K	150K	*	Gas			
No.	ECS & SF	PECIAL FEATURES	EVAPORATIVE		AF)		DISPLACE	MENT (L)		
1 TWC, 2HO2S, HAFS, SFI, OBD(P)			7VVXR0	124ZER						
•	*							2.4		
*		*		<u> </u>						
*		*	5.波 - 近 - 123			7.4				

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.

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.

That for the listed vehicle models, the manufacturer has attested to compliance with Title 13, California Code of BE IT FURTHER RESOLVED: 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).

That the listed vehicle models are granted a partial zero-emission-vehicle (PZEV) allowance of 0.2 pursuant to 13 CCR Section 1962 (c)(2).

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 2006.

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.)

NMOG FLEET NMOG @ RAF=* AVERAGE [g/ml] CH4 RAF = *				NMOG or	HCHO=form	aldehyde, P	M≂particulate	e malter; RA VP inigalier	,⊢≃reactivity a n discensed}=	on-board refu	eling vapor re	ecovery; g=gr	lOx=oxides of diurnal+ am; mg =millig	
CERT	STD	NMOG CERT	NMHC CERT	STD	ml=mile; K=	:1000 miles; g/mi]	F≖degrees F NOx I	ahrenneit; S	ir i P=supplei	nental federal [mg/ml]	PM [g/mi]	Hwy NO	x [g/ml]
0.039	0,043	[g/mi]	[g/mi]	[g/mi]	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
American Company	@ 50K	•	•	*	*	*	*	0.00	-			*	0.01	0.03
	@ UL	0.005	*	0.010	0.1	1.0	0.01	0.02	0.0	0	*		*	•
	50°F & 4K	0.006	•	0.020	0.1	1.0	0.005	0.02		0.		ICANOV	00.1	n/mil

450	j (22) 5 U F & 4 N	0,000	0.020											7
			NMHC+N	Ox [g/mi] posite)	CO [comp	g/mi] osite)	NMHC [g/mi]		co [NMHC [g/mi]	+NOx [SC03]	[SC]	
@ 2	O [g/ml] 0°F & 50K		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
		SFTP @ 4000 miles				-	0.02	0.14	0.2	8.0	0.01	0.20	0.1	2.7
CERT	0.5 10.0	SFTP@ * miles		 . 		•	*		•	•	*	*	+	
עופ	10.0	J 31 11 @									_			

	3-Days Diurna (grams/te	al + Hot Soak	2-Days Diurn (grams/te	al + Hot Soak ast) @ UL	Runnin (grams/m		On-Board Refueling Vapor Recovery (grams/gallon) @ UI		
Evaporative Family	<u> </u>	STD	CERT	STD	CERT	STD	CERT	STD 0.20	
	CERT			0,35	0.01	0.05	0.01		
7VVXR0124ZER	0.26	0.35	0.30	0.35	*	*	*	*	
•	*	*	<u> </u>						
•	•	*	.	*				-	
	*		*	•	•	*			

*= 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; LVW=loaded vehicle weight; ALVW=adjusted LVW; LEV=low emission vehicle; TLEV=transitional LEV; ULEV=ultra LEV; SULEV=super ULEV; TWC=3-way catalyst; CSS=oxygen sensor; HO2S=heated O2S; AFS;HAFS=air- fuel ratio sensor / heated AFS; EGR=exhaust pas 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

2007 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	EVAPORATIVE FAMILY	ECS NO.	ENGINE SIZE (L)	(*=N/A or A/E=exi intermed)	JSE JANCE full in-use; n. / evap. ate in-use)	PHASE-IN STD.	OBD II
					EXH	EVAP		
VOLVO	S40 2.4i	7VVXR0124ZER	1	2.4	*	*	SFTP	Partial
102.0			 		+	*	SFTP	Partial
AOTAO	V50 2.4i	7VVXR0124ZER	11	2.4				