

VOLVO CAR CORPORATION

EXECUTIVE ORDER A-018-0151
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 (mil		IN- COMP ("=N/A or A/E=ex	MEDIATE USE LIANCE full in-use; h. / evap. late in-use)	FUEL TYPE
2008	8VVXV02.4U2N	Passenger Car	"LEV II" Ultra Low Emission Vehicle (LEV II	EXH / ORVR	EVAP	EXH	EVAP	Gasoline
			ULEV)	120K			*	
No.	ECS & SF	ECIAL FEATURES	EVAPORATIVE		DISPLACEMENT (L)			
1	TWC, 2HO2	S, HAFS, SFI, OBD(P)	BVVXR(0132EV2				
*		*		*		2.	4	
*				•		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 28 day of June 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.)

NMOG FLEET NMOG @ RAF=* AVERAGE [g/mi] CH4 RAF = *		NMOG or														
CERT	STD	NMOG			hot-soak; RL [g/mi]=running loss; ORVR [g/galion dispensed]=on-board refueling vapor recovery; g=gram; mg=milligram mi=mile; K=1000 miles; F=degrees Fahrenheit; SFTP=supplemental federal test procedure											
0.034	0.040	CERT	[g/ml] [g/ml]	STD [g/mi]	CO [g/mi]		NC.	NOx [g/mi]		HCHO [mg/mi]		PM [g/mi]		Hwy NOx (g/mi)		
CHECKS AND DESCRIPTION					CERT	STD	CERT	STE	CE	RT S	TD	CERT	STD	CERT	STD	
	@ 50K	0.020	*	0.040	0.9	1.7	0.03	0.0	5	*	8.	*	*	0.00	0.07	
	@ UL	0.027		0.055	1.3	2.1	0.03	0.0	7	• 7	11.	•	0.01	0.00	0.09	
(A)	@ 50°F & 4K	•	٠	*		*	•		_	•	•	•	*	*	*	
) [g/mi])°F & 50K	NMHC+NC (compo									NMHC+NOx [g/mi] [SC03]		CO [g/mi] [SC03]			
(g) 20	L G SUK			CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	
CERT	1.3		000 miles	*	•	•	•	0.06	0.14	0.5	8.0	0.03	0.20	0.2	2.7	
STD	10.0	SFTP	@ * miles	*	•	•		*	*			+	*	+	*	

Evaporative Family	3-Days Diurn. (grams/te		2-Days Diurnal + Hot Soak (grams/test) @ UL			ng Loss nile) @ UL	On-Board Refueling Vapor Recovery (grams/gallon) @ UL		
	CERT	STD	CERT	STD	CERT	STD	CERT	STD	
6VVXR0132EV2	0.31	0.50	0.32	0.65	0.01	0.05	0.04	0.20	
*	•	•	•	*	4		•	•	
	•		•	+	*	*	*	•	
	•	•	•	*	*	*	*	-	

"= 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 D2S; 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)=full/partial on-board diagnostic; DOR=direct ozone reducing; prefix 2=parallel; (2) suffix=series; CNG/LNG=compressed/ilquefied natural gas; LPG=liquefied petroleum gas; E85="85%" Ethanol Fuet;

2008 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	EVAPORATIVE FAMILY	ECS NO.	ENGINE SIZE (L)	INTERMEDIATE IN-USE COMPLIANCE (*=N/A or full in-use; A/E=exh. / evap. Intermediate in-use)		PHASE-IN STD.	OBD II
					EXH	EVAP		
VOLVO	\$40 2.41	8VVXR0132EV2	1	2.4	*	*	SFTP	Partial
VOLVO	V50 2.4i	8VVXR0132EV2	1	2.4	*	•	SFTP	Partial
VOLVO	C30 2.4i	8VVXR0132EV2	1	2.4	*	•	SFTP	Partial