File

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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-18-99 Relating to Certification of New Motor Vehicles

VOLVO CAR CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 2000 model-year Volvo Car Corporation exhaust emission control systems are certified as described below for passenger cars:

Emission Standard Category: Low-Emission Vehicle (LEV)

Fuel Type: Gasoline

Engine Family: YVVXV2.43TF3 Displacement: 2.4 Liters (149 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Sequential Multiport Fuel Injection Heated Oxygen Sensors (two) Three Way Catalytic Converter

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The LEV certification exhaust emission standards for this engine family in grams per mile are:

<u>Miles</u>	Non-Methane <u>Organic Gas</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	<u>Formaldehyde</u>	Carbon <u>Monoxide (20°F)</u>	
50,000	0.075	3.4	0.2	0.015	10.0	
100,000	0.090	4.2	0.3	0.018	n/a	

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.94

The certification exhaust emission values set forth for non-methane organic gases (NMOG) reflect application of a 0.94 RAF for 2000 model-year LEVs. The LEV certification exhaust emission values for this engine family in grams per mile are:

Miles	Non-Methane Organic Gas	Carbon <u>Monoxide</u>	Nitrogen Oxides	<u>Formaldehyde</u>	Carbon <u>Monoxide (20°F)</u>	
50,000	0.049	0.6	0.1	0.001	4.1	
100,000	0.052	0.7	0.1	0.001	n/a	

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10/3/2007

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average NMOG exhaust mass emission requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles," and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the vehicle manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the manufacturer is certifying the listed vehicle models with a partially complying on-board diagnostic system for the aforementioned model year pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(6.2) ("Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines").

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

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BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the "California Refueling Emission Standards and Test Procedures for the 1998 and Subsequent Model Motor Vehicles," Title 13, California Code of Regulations, Section 1978, and the listed models comply with those standards.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this ______ day of July 1999.

R. B. Summerfield, Chief

Mobile Source Operations Division

Revisions:

17.03-1 E.O.#<u>A-18-99</u>

2000 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Page____

Manufacturer:	VOLVO CARC	CRP E	xh Eng Far	п: <i><u>У<i>VV</i></u></i>	(V2.43TF3 EV	ap Fam: <u>///</u>	XR0133X70
	in Eng Fam: CA						
Exh Std: CA	Tier-1TL	EV	LEV <u>X</u>	ULEV	ZEV	; US EP	A Tier-JNIEV X
Evap Std: 50	KUseful Li	fe with R	/L <u>.X</u> Iı	n-Use E	xh Std: Full 1	n Use A	lt In Use
Veh Class(es)	: PC <u>//</u> LDT1_	LDT2	MDV:	l	MDV2 MDV3_	MDV4	MDV5
Single Cert S	itd for Multi-Cla	ss Eng Fa	n: <u><i>N/A</i></u>	(specif	y: N/A, LDT1,	MDV1, MDV2,	MDV3, MDV4)
Fuel Type(s):	Dedicated	Flex-Fuel	Dual-	-Fuel	Bi-Fuel	Gasoline <u></u>	Diesel
					specify)		
Emiss Test Fu	uel(s): Indo	Ph2 <u></u>	CNG LI	PG	M85 Other	(specify)	
	Diesel:	13 CCR 2	282	40 C	FR 86.113-90	40 CFR	86.113-94
Service Accum	ı: Std AMA <u>X</u>						
	ocedure: N/A						
Hybrid: Type	e A B C,	APU Cyc	le (e.g.,	Otto,	Diesel, Turbine	:):	
	puration: <u><i>I-5</i></u>						
Valves per Cy	linder: <u>4</u>		Rate	i HP:	168	@ <i>6100</i>	RPMRPM
Engine: From	it Mid	Rear	Drive	e: FWD		4WD-FT	4WD-PT
chaust ECS (e.g., MFI, EGR,	TC, CAC):	SFI, H	0256	2), TWC		
			(u:	se abbr	eviations per S	SAE J1930 SE	P91)
Engine Code	Vehicle Models		ETW	DPA	Ignition (ECM/PCM) Part No.	EGR	Catalytic
(also list CA/49ST/50ST	(if coded see attachment)	(M5, A4	or Test Wt.	or RIHP	(ECM/PCM) Part No.	System Part No.	Converter Part No.
	570/V70	i	1		9497544A	N/Q	0407020
101.1CM	3141474	//3			·	11/1	9497820
			3625	1,5			
V/1.2/rs.)	(70/400	, , ,	7.5-	-y ,-w			
161.430st	570/V79	45	3625	7,0			
			3750	ヌア			ļ
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Date Issued:						· · · · · · · · · · · · · · · · · · ·	