

## **VOLVO CAR CORPORATION**

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EXECUTIVE ORDER A-018-0114
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 and 39516 and Executive Order G-45-9;

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.

MOD YEA		TEST GROUP			VEHICLE TYPE		AUST EMISSION DARD CATEGORY	FUEL TYPE					
200	2 2	2VVXV2.43U5N			Passenger Car	Ultra Le	ow Emission Vehicle (ULEV)	Gasoline					
No.	EVAP FAMIL			No.	SPECIAL FEATURE EMISSION CONTROL S		* = not applicable						
1	2VVXI	XR0133AAA			TWC, HAF	S, HO2S, SFI, OB	oxygen sensor HO2S = heated O2S AFS/HAFS = air/fuel sensor (aka. universal O2S) / heated AFS						
2		*		2		*	EGR = exhaust gas recirculation  AIR = secondary air injection PAIR = pulsed AIR  MFI = multiport fuel injection SFI = sequential MFI						
3		*		3		*							
4		*		4		*	TC/SC = turbo/super charger CAC = charge air cooler OBD (F) / OBD (P) = on-board diagnosis; full / partial compliance (prefix) 2 = parallel (2) (suffix) = series						
EVAI No.		CS lo.	ENGINI SIZE (L		VEHICLE MAKES & MODELS		SJECT TO SFTP	ABBREVIATIONS:					
1	•	1	2.4		Volvo: V70 FWD, S60 FWD								
•					•								
•		•	*		•								
•	١.	*	*				*						

The exhaust and evaporative emission standards (STD) and certification emission levels (CERT) for the listed vehicles are as follows. Any debit in the manufacturer's compliance plan for "NMOG Fleet Average" (passenger cars and light-duty trucks) or "Vehicle Equivalent Credit" (medium-duty vehicles) shall be equalized as required. The 50° Fahrenheit standards and CERT levels are listed below or compliance has been met based on the manufacturer's submitted compliance plan in lieu of actual testing.

			[g/mi] = 0.94	CH4 = n NOx = o	nethane NMOG = non-CH4 organic gas NMHC = non-CH4 hydrocarbon CO = carbon monoxide xides of nitrogen HCHO = formaldehyde PM = particulate matter RAF = reactivity adjustment factor										
CERT	CERT STD		CH4 RAF = *		CO [g/mi]		NOx [g/mi]		HCHO [mg/mi]		PM [g/mi]			Hwy NOx [g/mi]	
0.058	0.068	CERT	CERT STD		STD	CE	RT	STD	CERT	STD	CER	r s	rD	CERT	STD
K = 1000 miles	@ 50K	0.033	0.040	0.5	1.7	0.	1	0.2	0.3	8	5.1		*	0.04	0.3
	@ 100K	0.043 0.055		0.8	2.1	0.3	2	0.3	0.4	11	*		•	0.05	0.4
	@ 50°F, 4K	•			•	*	'	*	*	•	•		•	*	*
	[g/mi] )°F, 50K	g = gram mg = milligram		NMHC+NOx [g/mi] (composite)		NMF	NMHC+NOx [g/mi] [US06]		CO [g/mì] [US06]			NMHC+NOx [g/mi] [SC03]		CO [g/mi] [SC03]	
CERT	STD		mi = mile		STD	CE	RT	STD	CERT	STD	CER	r s	TD D	CERT	\$TD
7,5	10.0		@ 4K		*	0.04		0.14	0.4	8.0	0.10	0.	20	0.2	2.7
F = degree	Fahrenheit		@ 100K	• •		•	*		*	•	*		•	*	•
œ T	EVAPORA	EVAPORATIVE FAMILY 2			ΕV	EVAPORATIVE FAMILY 3			EVAPORATIVE FAMILY 4						
100K	3-D 2-D	2-D RL		3-D 2-D		RL	ORVR	3-D	2-D RL		ORVR	3-D	2-D	RL	ORVR
CERT	0.9 1.8	0.00	0.00	*	•	•		*	*	4	*			*	*
STD	2.0 2.5	0.05	0.20	*	•	•	*	•	*	*	*	+	*	*	*
2-D, 3-D [g/	test] = 2-day, 3-	day diurnal	and hot-soal	•	RL [g/mi] =	running	loss		ORVR [g/g:	ilon of fue	i dispense	d] = on-bo	ard refu	eling vapo	recovery

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 (labeling), 1968.1 or 1968.1(m)(6.2) (on-board diagnostic systems; full or partial compliance), 2035 et seq. (emission control warranty), 2235 (fuel tank fill pipes and openings), and "High-Altitude Requirements" and "Inspection and Maintenance Emission Standards" (California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles).

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 \_\_\_

// th day of October 2001.

R. B. Summerfield, Chief Mobile Source Operations Division