

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-7-200
Relating to Certification of New Motor Vehicles

VOLKSWAGEN AG

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 1999 model-year Volkswagen AG exhaust emission control systems are certified as described below for light-duty trucks:

Fuel Type: Gasoline

Engine Family: XVWXT02.8225 Displacement: 2.8 Liters (170 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Three Way Catalytic Converter
Secondary Air Injection
Heated Oxygen Sensors (two)
Exhaust Gas Recirculation
Sequential Multiport Fuel Injection

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

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

<u>Loaded Vehicle Weight (lbs.)</u>	<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon Monoxide (20°F)</u>
3751-5750	50,000	0.32	4.4	0.7	12.5
	100,000	0.40	5.5	0.97	n/a

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

<u>Loaded Vehicle Weight (lbs.)</u>	<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon Monoxide (20°F)</u>
3751-5750	50,000	0.12	0.8	0.3	5.6
	100,000	0.12	0.8	0.30	n/a

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 non-methane organic gases (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 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).

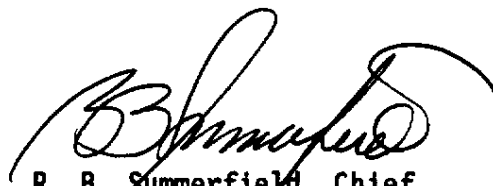
BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

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 24th day of November 1997.



R. B. Summerfield, Chief
Mobile Source Operations Division

**1999 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDUM-DUTY VEHICLES**

Manufacturer: VOLKSWAGEN Exh Eng Fam: XVWXT02.8225 Evap Fam: XVWXE0105233
 All Eng Codes in Eng Fam: CA 49S 50S X AB965 ORVR: YES NO X
 Exh Std: CA Tier-1 X TLEV LEV ULEV SULEV; US EPA Tier-1 X
 Veh Class(es): PC LDT1 LDT2 X MDV1 MDV2 MDV3 MDV4 MDV5
 Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)
 Fuel Type(s): Dedicated X Flex-Fuel Dual-Fuel Bi-Fuel Gasoline X Diesel CNG LNG LPG M85 Other (specify) _____
 Exh Emiss Test Fuel(s): Indo CBG X CNG LPG M85 Other (specify) _____
 Diesel: 13 CCR 2282 40 CFR 86.113-90 40 CFR 86.113-94
 Evaporative Emission Test Procedure: California _____ Federal X
 Service Accum: Std AMA X Mod AMA _____ Mfr ADP _____ Other (specify) _____
 NMOG Test Procedure: N/A X Std _____ Equip _____ R/L Test Proc: SHED n.a Pt Source X
 Engine Config. V6 Displacement: 2.8 Liters 170 Cubic Inches
 Valves per Cylinder: 2 Rated HP: 140 @ 4,500 RPM
 Engine: Front X Mid. _____ Rear _____ Drive: FWD X RWD _____ 4WD-FT _____ 4WD-PT _____
 Exhaust ECS (eg., EGR, MFI, TC, CAC, etc.) SFI / AIR / EGR / TWC / HO2S(2) / OBDII
 (use abbreviations per SAE 1930 JUN93)

Engine Code (also list CA/49ST/50ST)	Vehicles Models (if coded see attachment)	Trans. Type A-auto M-man.	ETW or Test WT	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
AES 50 ST	EUROVAN VR6	A	5,500	11.8	021 906 259 P	021 131 501 E 021 131 501 G 054 906 267	023 131 701 S
AES 50 ST	Eurovan MV / Eurovan MV pop top + w.p.	A	4,750	10.5	- " -	- " -	- " -
AES 50 ST	Eurovan GLS van	A	4,500	10.5	- " -	- " -	- " -

Date Issued: 07-21-97

Revisions: _____