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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-7-213 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 2000 model-year Volkswagen AG exhaust emission control systems are certified as described below for passenger cars:

Emission Standard Category: Transitional Low-Emission Vehicle (TLEV)

Fuel Type: Gasoline

10/3/2007

Engine Family: YVWXV01.8228 Displacement: 1.8 Liters (109 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Sequential Multiport Fuel Injection Secondary Air Injection Turbocharger Charge Air Cooler Three Way Catalytic Converter Heated Oxygen Sensors (two)

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

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

Miles	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	0.125	3.4	0.4	0.015	10.0
100,000	0.156	4.2	0.6	0.018	n/a

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.98

The certification exhaust emission values set forth for non-methane organic gas (NMOG) reflect application of a 0.98 RAF for 2000 model-year TLEVs. The TLEV 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	0.067	1.4	0.1	0.001	3.8
100,000	0.069	1.5	0.1	0.001	n/a

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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 vehicle manufacturer is certifying the listed vehicle models to the "California Refueling Emission Standards and Test Procedures for 1998 and Subsequent Model Motor Vehicles," Title 13, California Code of Regulations, Section 1978, 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 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. VOLKSWAGEN AG

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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 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 $29^{\frac{10}{10}}$ day of July 1999.

R. B. Summerfield, Chief Mebile Source Operations Division

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

Manufacturer: <u>VOLKSWAGEN</u> Exh Eng Fam: <u>YVWXV01.8228</u> Evap Fam: <u>YVWXR0110234</u> All Eng Codes in Eng Fam: CA 495 50S X AB965 ORVR: YES X NO Exh Std: CA Tier-1____ TLEV_X_LEV____ ULEV____ US EPA Tier-1____ Veh Class(es): PC_X_LDT1__LDT2___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 ____ Mod AMA ___ Mfr ADP X Other (specify) ___ NMOG Test Procedure: N/A_____Std_X__Equiv_____R/L Test Proc: SHED_X__Pt Source_____ Hybrid: Type A____B___C____ APU Cycle (e.g., Otto, Diesel, Turbine)____ Engine Config. <u>4</u>, in line Displacement: <u>1.8</u> Liters <u>109</u> ___ Cubic Inches Rated HP: 150 @ 5,800 RPM Valves per Cylinder: 5 Rear ____ Drive: FWD X RWD 4WD-FT 4WD-PT___ Engine: Front X Mid. Exhaust ECS (eg., EGR, MFI, TC, CAC, etc.) SFI / AIR / TC/ CAC / TWC / HO2S(2) / OBDII (use abbreviations per SAE 1930 JUN93)

Engine Code (also list CA/49ST/50ST	Vehicles Models (if codded 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.
APH 50 ST	New Beetle	М	3,250	8.0	06A 906 032 E 06A 906 032 C	-	1J0 131 701 FA or 1J0 178 EA
APH 50 ST	New Beetle	A	3,250	7.8	06A 906 032 B 06A 906 032 A	-	1J0 131 701 FA or 1J0 178 EA

Date Issued: 02-19-99

Revisions: