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## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-7-204 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 passenger cars:

Fuel Type: Gasoline

Engine Family: XVWXVO2.8221 <u>Displacement</u>: 2.8 Liters (170 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Tier 2

Sequential Multiport Fuel Injection Secondary Air Injection Three Way Catalytic Converter Heated Oxygen Sensors (Two)

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:

Miles	Non-Methane	Carbon	Nitrogen	Carbon
	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	<u>Monoxide (20<sup>0</sup>F)</u>
50,000	0.25	3.4	0.4	10.0
100,000		4.2	0.6	n/a

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

Miles	Non-Methane	Carbon	Nitrogen	Carbon	
	<u>Hydrocarbons</u>	<u>Monoxide</u>	Oxides	<u>Monoxide (20<sup>0</sup>F)</u>	
50,000	0.11	1.6	0.1	4.6	
100,000	0.11	1.6	0.1	n/a	

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 "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 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 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 "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.).

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 the "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.

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 277 day of May 1998.

R. B. Summerfield, Chief Mobile Source Operations Division

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

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 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 X Federal  Service Accum: Std AMA X Mod AMA Mfr ADP Other (specify)  NMOG Test Procedure: N/A X Std Equiv R/L Test Proc: SHED n.a Pt Source X Hybrid: Type A B C , APU Cycle (e.g., Otto, Diesel, Turbine)	Manufacturer	: VOLKSWAGEN	Ext	n Eng F	am: <u>x</u>	VWXV02.822	_ Evap Fam: _	XVWXE0090233	
Veh Class(es): PC_X	All Eng Code	s in Eng Fam:	CA	_ 49s		50s_X	AB965 ORVR	: YES NO Y	
Ven Class (es):         FC X         LDT1         LDT2         MDV1         MDV2         MDV3         MDV4         MDV5           Single Cert Std for Multi-Class Eng Fam:         M/A (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)         Diasel:	Exn Std: CA	Tier-l <u>X</u> T	LEV	_ LEV_		ULEV	SULEV ; US	EPA Tier-1 x	
Single Cert         Std for Multi-Class         Eng Fam:         N/A (specify:         N/A, LDT1, MDV1, MDV2, MDV3, MDV3, MDV4)           Fuel Type(s):         Dedicated X         Flex-Fuel         Dual-Fuel         Bi-Fuel         Gasoline X         Diesel           CNG         ING         LPG         M85         Other (specify)         Other (specify)           Exh Emiss Test Fuel(s):         Indo         CBG X         CNG         LPG         M85         Other (specify)           Exh Emiss Test Fuel(s):         Indo         CBG X         CNG         LPG         M85         Other (specify)           Exh Emiss Test Fuel(s):         Indo         CBG X         CNG         LPG         M85         Other (specify)           Exh Emission Test Fuel(s):         Indo         AMA         Mod AMA         Mfr ADP         Other (specify)           Service Accum:         Std AMA X         Mod AMA         Mfr ADP         Other (specify)           NMOG Test Procedure:         N/A X         Std         Equiv         R/L Test Proc:         SHED n.a Pt Source         X           Hybrid:         Type A         B         C         APU Cycle (e.g., Otto, Diesel, Turbine)         Cubic Inches           Valves per Cylinder:         2         Mid Hybrid         Re	Veh Class(es): PC_X LDT1 LDT2 MDV1 MDV2 MDV3 MDV4 MDV5								
Puel Type(s): Dedicated X	Single Cert	Std for Multi-C	lass Eng	j Fam: i	N/A (s	pecify: N/A	LDT1, MDV1, M	DV2 MDV3 MDV41	
Exh Emiss Test Fuel(s):   Indo	Fuel Type(s): Dedicated_X								
Diesel: 13 CCR 2282	CNG LNG LPG_ M85 Other (specify)								
Diesel: 13 CCR 2282	LAN Mails rest ruer(s): IndoCBG_X_CNGLPGM85Other (specify)								
Evaporative Emission Test Procedure: California X Federal  Service Accum: Std AMA X Mod AMA Mfr ADP Other (specify)  NMOG Test Procedure: N/A X Std Equiv R/L Test Proc: SHED n.a Pt Source X  Hybrid: Type A B C APU Cycle (e.g., Otto, Diesel, Turbine)  Engine Config. V6 Displacement: 2.8 Liters 170 Cubic Inches  Valves per Cylinder: 2 Rated HP: 172 @ 5,800 RPM  Engine: Front X Mid. Rear Drive: FWD X RWD 4WD-FT 4WD-PT  Exhaust ECS (eg., EGR, MFI, TC, CAC, etc.) SFI / AIR / TWC / HO2S(2) / OBDII  (use abbreviations per SAE 1930 SEP91)  Engine Code (also list Models Type or or (ECM/PCM) System Converter  (also list (if codded see attachment) M-man. WT Part No. Part No. Part No.  AAA Jetta GLX VR6 M 3,250 7.0 021 906 259 N - 1HM 131 701 H  AAA Jetta GLX VR6 M 3,250 6.3 021 906 259 N - 1HM 131 701 H		Die	esel: 13	3 CCR 2:	282	40 CFR 86	5.113-90 40	CFR 86 113-94	
Service Accum:         Std AMA X         Mod AMA         Mfr ADP         Other (specify)           NMOG Test Procedure:         N/A X         Std         Equiv         R/L Test Proc:         SHED n.a Pt Source X           Hybrid:         Type A         B         C         , APU Cycle (e.g., Otto, Diesel, Turbine)           Engine Config.         V6         Displacement:         2.8         Liters         170         Cubic Inches           Valves per Cylinder:         2         Rated HP:         172         @         5,800         RPM           Engine:         Front X         Mid.         Rear         Drive:         FWD X         RWD         4WD-FT         4WD-PT           Exhaust ECS (eg., EGR, MFI, TC, CAC, etc.)         SFI / AIR / TWC / HO2S(2) / OBDII         OBDII         (use abbreviations per SAE 1930 SEP91)           Engine Code (also list Models         Models         Type or or (ECM/PCM)         System         Converter           CA/49ST/50ST         (if codded see attachment)         A-auto Test RLHP         Part No.         Part No.         Part No.           AAA 50 ST         Golf GTI VR6         M         3,250         7.0         021 906 259 N         -         1HM 131 701 H           AAA Jetta GLX VR6         A         3,250 <td< td=""><td>Evaporative 1</td><td>Emission Test Pr</td><td>rocedure</td><td>e: Ca</td><td>alifor</td><td>nia X</td><td>Federal</td><td></td></td<>	Evaporative 1	Emission Test Pr	rocedure	e: Ca	alifor	nia X	Federal		
NMOG Test Procedure:         N/A X         Std         Equiv         R/L Test Proc:         SHED n.a Pt Source X           Hybrid:         Type A B C , APU Cycle (e.g., Otto, Diesel, Turbine)         Displacement:         2.8 Liters 170 Cubic Inches           Valves per Cylinder:         2         Rated HP:         172 @ 5,800 RPM           Engine:         Front X Mid.         Rear Drive:         FWD X RWD 4WD-FT 4WD-PT 4WD-PT 4WD-PT (use abbreviations per SAE 1930 SEP91)           Exhaust ECS (eg., EGR, MFI, TC, CAC, etc.)         SFI / AIR / TWC / HO2S(2) / OBDII (use abbreviations per SAE 1930 SEP91)           Engine Code (also list CA/49ST/50ST (if codded see attachment)         Trans. FTW Type or or or (ECM/PCM) System Converter         Catalytic Converter           AAA 50 ST         Jetta GLX VR6         M 3,250 7.0 021 906 259 N - 1HM 131 701 H           AAA 50 ST         Jetta GLX VR6         M 3,250 7.0 021 906 259 N - 1HM 131 701 H	Service Accur	n: Std AMA X	Mod	AMA.	Mfr	ADP ot	her (specify)		
Engine Config.	NMOG Test Pro	ocedure: N/A <u>X</u>	Std_	Ec	quiv	R/L Tes	t Proc: SHED n	a Pt Source X	
Engine Config. V6 Displacement: 2.8 Liters 170 Cubic Inches Valves per Cylinder: 2 Rated HP: 172 @ 5,800 RPM Engine: Front X Mid. Rear Drive: FWD X RWD 4WD-FT 4WD-PT Exhaust ECS (eg., EGR, MFI, TC, CAC, etc.) SFI / AIR / TWC / HO2S(2) / OBDII (use abbreviations per SAE 1930 SEP91)  Engine Code (also list Models Type or Or (ECM/PCM) System Converter (also list CA/49ST/50ST (if codded see attachment) M-man. WT Part No. Part No. Part No.  AAA Jetta GLX VR6 M 3,250 7.0 021 906 259 N - 1HM 131 701 H 131 701 H 130 ST AAA Jetta GLX VR6 A 3,250 6.3 021 906 259 N - 1HM 131 701 H	Hypria: Type	A B C,	_ APU C	ycle (e	e.g., ⊢	Otto, Diesel	. Turbine		
Engine: Front X Mid. Rear Drive: FWD X RWD 4WD-FT 4WD-PT  Exhaust ECS (eg., EGR, MFI, TC, CAC, etc.) SFI / AIR / TWC / HO2S(2) / OBDII  (use abbreviations per SAE 1930 SEP91)  Engine Code (also list Models Type or Or (ECM/PCM) System Converter  (also list (if codded see A-auto Test RLHP AAA SO ST AAA SO ST AAA Jetta GLX VR6 M 3,250 7.0 021 906 259 N - 1HM 131 701 H  AAA Jetta GLX VR6 A 3,250 6.3 021 906 259 N - 1HM 131 701 H	Engine Confid	y. <u>V6</u>	Di	splacer	ment:	2.8 Li	ters 170	Cubic Inches	
Engine: Front X Mid. Rear Drive: FWD X RWD 4WD-FT 4WD-PT  Exhaust ECS (eg., EGR, MFI, TC, CAC, etc.) SFI / AIR / TWC / HO2S(2) / OBDII  (use abbreviations per SAE 1930 SEP91)  Engine Code (also list Models Type or or Or (ECM/PCM) System Converter  (if codded see A-auto A-aut	valves per Cylinder: 2 Rated HP: 172 @ 5.800 RPM								
Exhaust ECS (eg., EGR, MFI, TC, CAC, etc.)  SFI / AIR / TWC / HO2S(2) / OBDIT  (use abbreviations per SAE 1930 SEP91)  Engine Code (also list Models Models (if codded see attachment)  (if codded see attachment)  AAA  Jetta GLX VR6  M  3,250  AAA  Jetta GLX VR6  M  3,250  AAA  Jetta GLX VR6  A  Jetta	Engine: From	nt X Mid	Rear		Drive	: FWD <u>X</u>	RWD 4WD-FT	7 4WD-PT	
Engine Code (also list (A/49ST/50ST) (if codded see attachment) (Indicate attachment) (I	Exhaust ECS	(eg., EGR, MFI,	TC, CAC	, etc.)		SFI / AIR /	TWC / HO2S(2)	/ OBDII	
(also list CA/49ST/50ST       Models (if codded see attachment)       Type A-auto M-man.       or Test RLHP WT       (ECM/PCM)       System Converter         AAA 50 ST       Jetta GLX VR6       M 3,250 7.0 021 906 259 N       - 1HM 131 701 H         AAA 50 ST       Golf GTI VR6       M 3,125 7.0 021 906 259 N       - 1HM 131 701 H         AAA Jetta GLX VR6       A 3,250 6.3 021 906 259 N       - 1HM 131 701 H					(1	use abbrevia	tions per SAE 1	1930 SEP91)	
(also list CA/49ST/50ST       Models (if codded see attachment)       Type A-auto M-man.       or Test RLHP WT       (ECM/PCM)       System Converter         AAA 50 ST       Jetta GLX VR6       M 3,250 7.0 021 906 259 N       - 1HM 131 701 H         AAA 50 ST       Golf GTI VR6       M 3,125 7.0 021 906 259 N       - 1HM 131 701 H         AAA Jetta GLX VR6       A 3,250 6.3 021 906 259 N       - 1HM 131 701 H	Engine Code	Vehicles	Trans.	ETW	DPA	Ignition	EGR	Catalytic	
AAA Jetta GLX VR6 M 3,250 7.0 021 906 259 N - 1HM 131 701 H  AAA Jetta GLX VR6 A 3,250 6.3 021 906 259 N - 1HM 131 701 H			Type	or	5				
AAA 50 ST	CAV 49ST/50ST		1	1	RLHP				
50 ST  AAA  Golf GTI VR6  M  3,125  7.0  021 906 259 N  -		accaciment,	M-Man.	, wi		Part No.	Part No.	Part No.	
50 ST  AAA  Golf GTI VR6  M  3,125  7.0  021 906 259 N  -	777	7-44- GTW 170-C						-	
AAA Jetta GLX VR6 A 3,250 6.3 021 906 259 N - 1HM 131 701 H		Detta GLX VR6	M	3,250	7.0	021 906 259	N -	1HM 131 701 H	
AAA Jetta GLX VR6 A 3,250 6.3 021 906 259 N - 1HM 131 701 H	222	Gale correspond		<u> </u>					
AAA 50 ST Jetta GLX VR6 A 3,250 6.3 021 906 259 N - 1HM 131 701 H		GOII GTI VR6	M	3,125	7.0	021 906 259	N -	1HM 131 701 H	
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Date Issued: 02-05-98	75-4	02_05_00							

Revisions: 04-09-98