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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-7-196 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 1998 model-year Volkswagen AG exhaust emission control systems are certified as described below for passenger cars:

<u>Fuel Type</u>: Diesel

Engine Family: WVWXV01.9234 Displacement: 1.9 Liters (116 cubic inches)

Exhaust Emission Control Systems & Special Features:

Direct Fuel Injection Turbocharger Charge Air Cooler Oxidation Catalytic Converter Exhaust Gas Recirculation

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>Miles</u>	Non-Methane <u>Hydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	<u>Particulates</u>
50,000	n/a	n/a	n/a	0.08
100,000	0.31	4.2	1 . 0	n/a

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

Miles	Non-Methane <u>Hydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	<u>Particulates</u>
50,000	n/a	n/a	n/a	0.07
100,000	0.21	0.5	0.8	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 gas (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 listed vehicle models also comply with the Board's highway emission standards 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 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 Z day of September 1997.

R. B. Summerfield, Chief

Mobile Source Operations Division

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1998 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDUM-DUTY VEHICLES

Manufacturer:	VOLKSWAGEN	_ Exh	Eng Fan	n: <u>WVW</u>	XV 01.9 234	Evap Fam:	n.a.
All Eng Codes	in Eng Fam: (ZA	49S		50S_X_ A	3965ORVR:	YES NO X
Exh Std: CA	Tier-1 X TL	EV	LEV	ט	LEVSULI	ev;	PA Tier-1 <u>X</u>
Veh Class(es)	: PCX LDT1_	LDT2	1	MDV1	_ MDV2	MDV3 MDV	4 MDV5
Single Cert S	td for Multi-Cla	ass Eng	Fam: N	/A (sp	ecify: N/A, L	OTI, MDVI, MDV	2, MDV3, MDV4)
Fuel Type(s):	Dedicated X_						
	CNGLNG	LPG	_ M85_	Oth	er (specify)_		
Exh Emiss Tes	t Fuel(s): Indo	CBG	CN	GL	PG M85 (Other (specify	.)
:	Die	sel: 13	CCR 22	82	40 CFR 86.1	13-90 <u> 4</u> 0 CF	R 86.113-94 <u>X</u>
Evaporative E	mission Test Pro	ocedure:	Ca.	liforn	ia <u>n.a.</u>	Federal <u>n.a.</u>	
Service Accum	n: Std AMA <u>X</u>	Mod A	AMA	Mfr	ADP Othe:	r (specify)	
NMOG Test Pro	cedure: N/AX	Std	Eq	uiv	R/L Test	Proc: SHED <u>n.a</u>	_ PtSource <u>n.a</u>
Engine Config	. <u>4 in line</u>	Displac	cement:				
	/linder: 2						3,750RPM
Engine: From	nt <u>X</u> Mid	Rear _	:	Drive:	FWD X RW	D 4WD-FT	4WD-PT
Exhaust ECS	(eg., EGR, MFI,	TC, CAC,	etc.)		DFI / TC / CA	C / OC / EGR /	OBDII
				(1	se abbreviati	ons per SAE 19	930 SEP93)
	1		T W T W . T	DD2	Tomition	E/CD	Catalytic
	Vehicles	i 1		DPA	-		Catalytic Converter
(also list	Models	Туре	or	DPA or RLHP	Ignition (ECM/PCM)	EGR System	Catalytic Converter
(also list		Туре	or	or	(ECM/PCM)		-
(also list	Models (if codded see	Type A-auto	or Test	or	(ECM/PCM)	System	Converter
(also list CA/49ST/50ST	Models (if codded see attachment)	Type A-auto	or Test WT	or RLHP	(ECM/PCM) Part No. 028 906 021 EC	System Part No. 028 131 501 E	Converter Part No.
(also list	Models (if codded see attachment) Passat TDI Diesel	Type A-auto M-man.	or Test WT	or RLHP	(ECM/PCM) Part No. 028 906 021 EC	System Part No. 028 131 501 E 028 131 501 L	Converter
(also list CA/49ST/50ST	Models (if codded see attachment) Passat TDI	Type A-auto M-man.	or Test WT 3,500	or RLHP	(ECM/PCM) Part No. 028 906 021 EC 038 906 018 Q	System Part No. 028 131 501 E 028 131 501 L 1H0 906 627	Converter Part No.
(also list CA/49ST/50ST AHU, AHH 50 ST	Models (if codded see attachment) Passat TDI Diesel station wagon Passat TDI	Type A-auto M-man.	or Test WT	or RLHP	(ECM/PCM) Part No. 028 906 021 EC 038 906 018 Q	System Part No. 028 131 501 E 028 131 501 L	Converter Part No.
(also list CA/49ST/50ST AHU, AHH 50 ST	Models (if codded see attachment) Passat TDI Diesel station wagon	Type A-auto M-man.	or Test WT 3,500	or RLHP	(ECM/PCM) Part No. 028 906 021 EC 038 906 018 Q	System Part No. 028 131 501 E 028 131 501 L 1H0 906 627	Converter Part No.
AHU, AHH 50 ST AHU, AHH 50 ST	Models (if codded see attachment) Passat TDI Diesel station wagon Passat TDI Diesel sedan	Type A-auto M-man. M	or Test WT 3,500	or RLHP 6.4	(ECM/PCM) Part No. 028 906 021 EC 038 906 018 Q - " -	System Part No. 028 131 501 E 028 131 501 L 1HO 906 627 - " -	Converter Part No. 3B0 131 701 K
AHU, AHH 50 ST AHU, AHH 50 ST	Models (if codded see attachment) Passat TDI Diesel station wagon Passat TDI Diesel sedan	Type A-auto M-man. M	or Test WT 3,500	or RLHP 6.4	(ECM/PCM) Part No. 028 906 021 EC 038 906 018 Q - " -	System Part No. 028 131 501 E 028 131 501 L 1H0 906 627 - " - 028 131 501 E 028 131 501 L	Converter Part No.
AHU, AHH 50 ST AHU, AHH 50 ST	Models (if codded see attachment) Passat TDI Diesel station wagon Passat TDI Diesel sedan Passat TDI	Type A-auto M-man. M	or Test WT 3,500	or RLHP 6.4	(ECM/PCM) Part No. 028 906 021 EC 038 906 018 Q - " -	System Part No. 028 131 501 E 028 131 501 L 1HO 906 627 - " -	Converter Part No. 3B0 131 701 K
AHU, AHH 50 ST AHU, AHH 50 ST	Models (if codded see attachment) Passat TDI Diesel station wagon Passat TDI Diesel sedan Passat TDI Diesel	Type A-auto M-man. M	or Test WT 3,500	or RLHP 6.4	(ECM/PCM) Part No. 028 906 021 EC 038 906 018 Q - " -	System Part No. 028 131 501 E 028 131 501 L 1H0 906 627 - " - 028 131 501 E 028 131 501 L	Converter Part No. 3B0 131 701 K
AHU, AHH 50 ST AHU, AHH 50 ST AHU, AHH 50 ST	Models (if codded see attachment) Passat TDI Diesel station wagon Passat TDI Diesel sedan Passat TDI Diesel station wagon Passat TDI Diesel station wagon Passat TDI Diesel	Type A-auto M-man. M	or Test WT 3,500 3,500	or RLHP 6.4 6.4	(ECM/PCM) Part No. 028 906 021 EC 038 906 018 Q - " -	System Part No. 028 131 501 E 028 131 501 L 1HO 906 627 - " - 028 131 501 E 028 131 501 L 1HO 906 627	Converter Part No. 3B0 131 701 K - " - 3B0 131 701 K
AHU, AHH 50 ST AHU, AHH 50 ST AHU, AHH 50 ST AHU, AHH AHU, AHH AHU, AHH	Models (if codded see attachment) Passat TDI Diesel station wagon Passat TDI Diesel sedan Passat TDI Diesel station wagon Passat TDI Diesel station wagon Passat TDI Diesel station wagon	Type A-auto M-man. M	or Test WT 3,500 3,500	or RLHP 6.4 6.4	(ECM/PCM) Part No. 028 906 021 EC 038 906 018 Q - " -	System Part No. 028 131 501 E 028 131 501 L 1HO 906 627 - " - 028 131 501 E 028 131 501 L 1HO 906 627	Converter Part No. 3B0 131 701 K - " - 3B0 131 701 K
AHU, AHH 50 ST AHU, AHH 50 ST AHU, AHH 50 ST AHU, AHH AHU, AHH AHU, AHH	Models (if codded see attachment) Passat TDI Diesel station wagon Passat TDI Diesel sedan Passat TDI Diesel station wagon Passat TDI Diesel station wagon Passat TDI Diesel	Type A-auto M-man. M	or Test WT 3,500 3,500	or RLHP 6.4 6.4	(ECM/PCM) Part No. 028 906 021 EC 038 906 018 Q - " -	System Part No. 028 131 501 E 028 131 501 L 1HO 906 627 - " - 028 131 501 E 028 131 501 L 1HO 906 627	Converter Part No. 3B0 131 701 K - " - 3B0 131 701 K
AHU, AHH 50 ST AHU, AHH 50 ST AHU, AHH 50 ST AHU, AHH AHU, AHH AHU, AHH	Models (if codded see attachment) Passat TDI Diesel station wagon Passat TDI Diesel sedan Passat TDI Diesel station wagon Passat TDI Diesel station wagon Passat TDI Diesel	Type A-auto M-man. M	or Test WT 3,500 3,500	or RLHP 6.4 6.4	(ECM/PCM) Part No. 028 906 021 EC 038 906 018 Q - " -	System Part No. 028 131 501 E 028 131 501 L 1HO 906 627 - " - 028 131 501 E 028 131 501 L 1HO 906 627	Converter Part No. 3B0 131 701 K - " - 3B0 131 701 K

Date Issued: 12-16-96

Revisions: 08-25-97

1998 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDUM-DUTY VEHICLES

	VOLKSWAGEN_							
All Eng Codes	in Eng Fam: 0	'A	49S		50SXA	3965ORÝR:	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		ADV1	MDV2	MDV3 MDV	4 MDV5	
Single Cert S	td for Multi-Cla	ass Eng	Fam: N	/A (sp	ecify: N/A, L	OT1, MDV1, MDV	2, MDV3, MDV4)	
Fuel Type(s):							Diesel_X_	
	CNGLNG							
Exh Emiss Tes	t Fuel(s): Indo	CBG	CNO	G L	.PG M85 (Other (specify	")	
							R 86.113-94 <u>X</u>	
	mission Test Pro							
	: Std AMA_X_							
NMOG Test Procedure: N/A X Std Equiv R/L Test Proc: SHED n.a PtSource n.a								
Engine Config. 4 in line Displacement: 1.9 Liters 116 Cubic Inches								
	linder: 2						3,750 RPM	
	t <u>X</u> Mid							
Exhaust ECS (eg., EGR, MFI, '	rc, cac,	etc.)				OBDII	
				(1	se abbreviation	ons per SAE 19	30 SEP93)	
		(m	TOTOGRA	אממ	Tenition	EGR	Catalytic	
Engine Code	Venicles Models	Trans. Type		or	1		Converter	
CA/49ST/50ST	(if codded see	A-auto	Test	RLHP		Part No.	Bart No	
	attachment)	M-man.	WT		Part No.	Part No.	rait No.	
	D		3 500	<i>5</i> 1	028 806 021 FC	028 131 501 F	3B0 131 701 K	
AHU, AHH 50 ST	Passat TDI Diesel	М	3,500	0.4		028 131 501 L	320 131 /01 1	
	station wagon					1HO 906 627		
AHU, AHH	Passat TDI	М	3,375	6.4	_ " _	- " -	- " -	
50 ST	Diesel sedan	·		1				
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				<u> </u>	<u></u>			
Date Issued: 12-16-96								
Revisions:								