



Volkswagen AG, a member of the Volkswagen Group

Application for Emissions Certification

2011 Model Year

Durability Group: BVWXGPGNN3SA

Evap. Families: BVWXR0125P46

Test Group: BVWXV02.03PA

Certificate Number: BVWXV02.03PA-006

Durability Group Description: Four Stroke, Otto Cycle, Gasoline Fueled,
Direct Fuel Injection, AIR, Catalyst Code: SI4910

Test group Description: 2.0 Liter I4 – LDV

Applicable Standards: 50-State: Federal: Tier 2 BIN 3
CA: LEV-II SULEV-Zero Evap.
(qualifies as a PZEV)

Carlines Covered: Volkswagen CC

Vehicles Tested:

VID	Config.	Test Type / #	Test Type / #
VW465 00127/10	0	FTP / AVWX10004528	HFET / AVWX10004529
VW465 00127/10	0	US06 / AVWX10004317	SC03 / AVWX10004318
VW465 00127/10	0	Cold CO / AVWX10004320	50°F FTP / AVWX10004319
VW462 00184/10	0	2-Day / AVWX91000391	ORVR / AVWX10006265
VW462 00184/10	0	3-Day / AVWX10006267	Running Loss / AVWX10006266

Issue Date: 06-29-2010

Update: 12-10-2010

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Section 5	Pg. 1	Test Group Description	Engine Code	R.CH-No.:	Revision Date
		Test Group	BVWXV02.03PA	all	12-10-2010

5.1 Test Group Description

Test Group Name	BVWXV02.03PA
Certificate Number	BVWXV02.03PA-006
Engine displacements covered	2.0 liters
Arrangement and number of cylinders	I 4
Vehicle class (es) covered	LDV
Federal Emissions Standards Class	Tier 2 BIN 3
California Emissions Standards Class	LEV II SULEV (PZEV)

5.2 Test Group Emission Standards

Please refer to Certification Summary Information Report included in Section 7 for applicable emission standards.

Section 6	Pg. 1	Test Vehicle Description	Engine Code	R.CH-No.:	Revision Date
Test Group		BVWXV02.03PA	all		12-10-2010

6. Test Vehicle Description (cont.)

Please refer to included Certification Summary Information Report for the following vehicles:

Certificate Number: BVWXV02.03PA-006
 Test Group: BVWXV02.03PA
 Evaporative/Refueling Family: BVWXR0125P46

VID	config.	vehicle type	tests performed
465 00127/10	0	Cert. Emission	FTP 75, HFET, Cold CO, CST, 50°F FTP, US06, SC03
	0	Cert. Emission	FTP, HFET (High Altitude)
	0	Fuel Economy	FTP 75, HFET, Cold CO, US06, SC03
465 00126/10	0	Fuel Economy	FTP 75, HFET, Cold CO, US06, SC03
	0	Fuel Economy	FTP 75, HFET, Cold CO, US06, SC03
461 90010/10	0	Fuel Economy	FTP 75, HFET, Cold CO, US06, SC03
462 00184/10	0	Cert. Emission	2-Day EVAP, 3-day EVAP
462 00184/10	0	Cert. Emission	ORVR

Section 7	Pg. 1	Test Results	Engine Code	R.CH-No.:	Revision Date
Test Group		BVWXV02.03PA	all		12-10-2010

7. Test Results

Please refer to included Certification Summary Information Report.

Certificate Number: BVWXV02.03PA-006
Combination of:
Test Group: BVWXV02.03PA
EVAP/Refueling Family: BVWXR0125P46

Certification Summary Information Report

Manufacturer	Volkswagen	Manufacturer Code	VWX
Test Group	BVWXV02.03PA	Evaporative/Refueling Family	BVWXR0125P46
Certificate Number	BVWXV02.03PA-006	CARB Executive Order #	N/A
Certificate Issue Date	07/02/2010	Certificate Revision Date	N/A
Certificate Effective Date	12/31/2011	Conditional Certificate	No
CSI Revision #	N/A	CSI Submission/Revision Date	09/28/2010
Model Year	2011		
Test Group Information			
CSI Type	Update for Correction	Running Change Reference Number	N/A
Drive Source	Combustion Engine	EPA Vehicle Class	LDV
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	Yes
Durability Group Name	BVWXGPGNN3SA	Durability Group Equivalency Factor	1.00
Fuel Category	Single Fuel	Fuel 1 / Fuel 2	Gasoline, Not Applicable
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Introduction into Commerce Date	06/30/2010	CAP2000 Conditional Certificate?	No
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--
SFTP Compliance Indicator	Yes	SFTP Composite CO Option	No
SFTP SC03 Test Number	AVWX10004318	SFTP US06 Test Number	AVWX10004317
SFTP FTP Test Number	AVWX10004528		
OBD Compliance Type	CARB	OBD Demo Vehicle Test Group	BVWXV02.03PA
Mfr Test Group Comments	50 State test group - California PZEV		
Mfr Exhaust / Evap Standards Comments	--		
Evaporative/Refueling Family Information			
Evaporative Summary Information Type	New	Submission/Correction Date	03/24/2010
Integrated ORVR?	Yes	Fuel(s)	Gasoline, Not Applicable
Bladder Fuel Tank?	No		
Fuel Tank Material	Plastic	Fuel Tank Material Description	HDPE + EVOH MULTILAYER
Fill Pipe Seal Type	Liquid seal		
Air Intake System Vapor Storage Device?	No	Air Intake System Vapor Storage Device Description	N/A
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	N/A
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	125	Number of Primary Canisters	1
Number of Bleed Canisters	0	Bleed Canister Total Working Capacity (grams)	N/A
Mfr Evaporative/Refueling Family Comments	Certified to Federal LEV-II and California PZEV Evap Standards and Alternate Federal In-Use Evap Standards.		

Certification Summary Information Report

Test Group	BVWXV02.03PA		Evaporative/Refueling Family	BVWXR0125P46				
Models Covered by this Certificate								
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	Trans - # of Gears	Trans - Lockup	Trans - Creeper Gear
Volkswagen	1 - Volkswagen	293 - CC	CA	F	SA	6	No	No
Volkswagen	1 - Volkswagen	293 - CC	FA	F	SA	6	No	No
Volkswagen	1 - Volkswagen	293 - CC	FA	F	M	6	No	No
Volkswagen	1 - Volkswagen	293 - CC	CA	F	M	6	No	No
Engine Description								
Hybrid Type	--			Hybrid Description	--			
Engine Type	4-Stroke Spark Ignition			Mfr Engine Description	--			
Engine Block Arrangement	Inline			Mfr Engine Block Arrangement Description	--			
Basic Fuel Metering System(s)	Gasoline Direct fuel injection,			Number of Cylinders/Rotors	4			
After Treatment Device(s) (ATD)								
ATD Number	ATD Type		ATD Precious Metal	Substrate Material		Substrate Construction		
1	Three-way catalyst		Paladium + Rhodium	Ceramic		Monolith		
2	Three-way catalyst		Paladium + Rhodium	Ceramic		Monolith		
Mfr After Treatment Device (ATD) Comments								
--								
Direct Ozone Reduction (DOR) Device								
Not Equipped								
Mfr Emission Control Device Comments								
--								
Engine Configuration Number 1								
Engine Displacement (liters)	2.0			Engine Rated Horsepower	200			
Number of Inlet Valves Per Cylinder	2			Number of Exhaust Valves Per Cylinder	2			
Air Aspiration Method	Turbocharged			Number of Air Aspiration Devices	1			
Air Aspiration Device Configuration	Single			Charge Air Cooler Type	Air			
Cylinder Deactivation Description	N/A			Variable Valve Lift System	N/A			
Variable Valve Timing System Description	CONTINUOUS							
Number of Knock Sensors	2							
Air/Fuel Sensor # 1 Type	Heated oxygen			Air/Fuel Sensor # 1 Description	N/A			
Air/Fuel Sensor # 2 Type	Heated oxygen			Air/Fuel Sensor # 2 Description	N/A			
Air/Fuel Sensor # 3 Type	Heated oxygen			Air/Fuel Sensor # 3 Description	N/A			
Mfr Air/Fuel Sensor Comments	--							
Exhaust Gas Recirculation	Yes			EGR Type	Variable Valve Timing Control			
Cooled Exhaust Gas Recirculation	No							
Closed Loop Air Injection System	No			Air Injection Type	--			
Mfr Engine Configuration Comments	--							

Certification Summary Information Report

Test Group	BVWXV02.03PA		Evaporative/Refueling Family	BVWXR0125P46				
Emission Data Vehicle Information								
Vehicle ID / Configuration	462 00184/10 / 0		# of Transmission Gears	6				
Transmission Type	Automatic		Axle Ratio	3.14				
Engine Code	CBFA		Vehicle Fuel Category	Single Fuel				
Fuel 1 / Fuel 2	Gasoline / Not Applicable		Rated Horsepower	200				
Displacement (liters)	1.984		Air Aspiration Method	Turbocharged				
Equivalent Test Weight (pounds)	3750		SIL Usage	Not equipped				
Test Drive Code	2-Wheel Drive, Front							
Aged Emission Components	4,000 (mi)							
Dynamometer Coefficients:								
	Target Coefficients			Set Coefficients				
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	36	0.29	0.0165	16	0.358	0.0141		
Cold CO	33	0.26	0.0148	14	0.322	0.0127		
US06	36	0.289	0.0165	16	0.358	0.0141		
Mfr Test Vehicle Comments EDV Passat - Federal LEV-II Evap. - California PZEV - Evap. tested as a Passat Wagon 4 dr. - ETW: 3750								
Test #	AVWX10006267		Test Procedure	34 - Federal fuel 3-day evap				
Exhaust Test # for this Evap Test	AVWX10006260		Test Fuel Type	61 - Tier 2 Cert Gasoline				
Test Date	10/07/2009		Fuel	Gasoline				
Vehicle Class	N/A		DF Type	Mfr. Determined				
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal LEV-II Evap	HC-TOTAL	0.1890	0.034	0.223	0.500	Pass
CA	150,000 miles	California LEV-II Zero Evap	HC-TOTAL	0.1890	0.041	0.230	0.350	Pass
Test #	AVWX91000391		Test Procedure	23 - 2-day evap				
Exhaust Test # for this Evap Test	AVWX91000390		Test Fuel Type	61 - Tier 2 Cert Gasoline				
Test Date	12/18/2009		Fuel	Gasoline				
Vehicle Class	N/A		DF Type	Mfr. Determined				
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal LEV-II Evap	HC-TOTAL	0.1929	0.034	0.227	0.650	Pass
CA	150,000 miles	California LEV-II Zero Evap	HC-TOTAL	0.1929	0.041	0.234	0.350	Pass

Certification Summary Information Report

Test Group	BVWXV02.03PA			Evaporative/Refueling Family	BVWXR0125P46			
Test #	AVWX10006265			Test Procedure	24 - Federal fuel refueling test (ORVR)			
Exhaust Test # for this Evap Test	AVWX10006259			Test Fuel Type	61 - Tier 2 Cert Gasoline			
Test Date	09/30/2009			Fuel	Gasoline			
Vehicle Class	N/A			DF Type	Mfr. Determined			
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal LEV-II Evap	HC	0.0580	0.038	0.096	0.200	Pass
CA	150,000 miles	California LEV-II Zero Evap	HC	0.0580	0.048	0.106	0.200	Pass

Test #	AVWX10006266			Test Procedure	32 - Federal Fuel Running Loss			
Exhaust Test # for this Evap Test	AVWX10006260			Test Fuel Type	61 - Tier 2 Cert Gasoline			
Test Date	10/07/2009			Fuel	Gasoline			
Vehicle Class	N/A			DF Type	Mfr. Determined			
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal LEV-II Evap	HC	0.0000	0.000	0.000	0.050	Pass
CA	150,000 miles	California LEV-II Zero Evap	HC	0.0000	0.000	0.000	0.050	Pass

Emission Data Vehicle Information

Vehicle ID / Configuration	465 00127/10 / 0			# of Transmission Gears	6			
Transmission Type	Automatic			Axle Ratio	3.14			
Engine Code	CBFA			Vehicle Fuel Category	Single Fuel			
Fuel 1 / Fuel 2	Gasoline / Not Applicable			Rated Horsepower	200			
Displacement (liters)	1.984			Air Aspiration Method	Turbocharged			
Equivalent Test Weight (pounds)	3875			SIL Usage	Not equipped			
Test Drive Code	2-Wheel Drive, Front							
Aged Emission Components	4,000 (mi)							

Dynamometer Coefficients:

	Target Coefficients			Set Coefficients		
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)
City/Highway/Evap	39	0.29	0.0171	18	0.1	0.0178
Cold CO	42	0.32	0.0187	16	0.22	0.0195
US06	39	0.29	0.0171	18	0.1	0.0178

Mfr Test Vehicle Comments

Certification Summary Information Report

Test Group	BVWXV02.03PA				Evaporative/Refueling Family				BVWXR0125P46			
Test #	AVWX10004319				Test Procedure				52 - Fed. fuel 50 F exh.			
Exhaust Test # for this Evap Test	N/A				Test Fuel Type				61 - Tier 2 Cert Gasoline			
Test Date	03/11/2009				Fuel				Gasoline			
Vehicle Class	LDV/Passenger Car				DF Type				Mfr. Determined			
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
CA	4,000 miles	California LEV-II SULEV	CO	0.180	--	--	--	--	--	0.18	1.00	Pass
CA	4,000 miles	California LEV-II SULEV	HCHO	0.00000	--	--	--	--	--	0.0000	0.0080	Pass
CA	4,000 miles	California LEV-II SULEV	NMOG	0.00680	1	1.04	--	--	--	0.0068	0.0200	Pass
CA	4,000 miles	California LEV-II SULEV	NOX	0.0060	--	--	--	--	--	0.006	0.020	Pass

Test #	AVWX10004320				Test Procedure				11 - Cold CO			
Exhaust Test # for this Evap Test	N/A				Test Fuel Type				27 - Cold CO Premium (Tier 2)			
Test Date	03/13/2009				Fuel				Gasoline			
Vehicle Class	LDV/Passenger Car				DF Type				Mfr. Determined			
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	50,000 miles	Federal Tier 2 Bin 3	CO	1.95	--	--	--	0.030	--	2.0	10.0	Pass
Fed	120,000 miles	Federal Tier 2 Bin 3	HC-NM	0.214	--	--	--	0.0006	--	0.21	0.30	Pass
CA	50,000 miles	California LEV-II SULEV	CO	1.95	--	--	--	0.030	--	2.0	10.0	Pass

Certification Summary Information Report

Test Group		BVWXV02.03PA			Evaporative/Refueling Family			BVWXR0125P46				
Test #	AVWX10004528			Test Procedure			21 - Federal fuel 2-day exhaust (w/can load)					
Exhaust Test # for this Evap Test	N/A			Test Fuel Type			61 - Tier 2 Cert Gasoline					
Test Date	06/05/2009			Fuel			Gasoline					
Vehicle Class	LDV/Passenger Car			DF Type			Mfr. Determined					
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 2 Bin 3	CO	0.140	--	--	--	0.030	--	0.17	2.10	Pass
Fed	120,000 miles	Federal Tier 2 Bin 3	HC-NM+NOX-COMP	0.0261	--	--	--	--	--	0.026	0.620	Pass
Fed	120,000 miles	Federal Tier 2 Bin 3	HCHO	0.00000	--	--	--	0.0000	--	0.0000	0.0110	Pass
Fed	120,000 miles	Federal Tier 2 Bin 3	NMOG	0.00330	1	1.04	--	0.0006	--	0.0039	0.0550	Pass
Fed	120,000 miles	Federal Tier 2 Bin 3	NOX	0.0060	--	--	--	0.002	--	0.008	0.030	Pass
Fed	120,000 miles	Federal Tier 2 Bin 3	PM	0.0040	--	--	--	0.0000	--	0.004	0.010	Pass
CA	150,000 miles	California LEV-II SULEV	CO	0.140	--	--	--	0.03	--	0.17	1.00	Pass
CA	150,000 miles	California LEV-II SULEV	HCHO	0.00000	--	--	--	0.0000	--	0.0000	0.0040	Pass
CA	150,000 miles	California LEV-II SULEV	NMOG	0.00330	1	1.04	--	0.0006	--	0.0039	0.0100	Pass
CA	150,000 miles	California LEV-II SULEV	NOX	0.0060	--	--	--	0.002	--	0.008	0.020	Pass
CA	150,000 miles	California LEV-II SULEV	PM	0.0040	--	--	--	0.0000	--	0.004	0.010	Pass

Test #	AVWX10004529			Test Procedure			3 - HWFE					
Exhaust Test # for this Evap Test	N/A			Test Fuel Type			61 - Tier 2 Cert Gasoline					
Test Date	06/05/2009			Fuel			Gasoline					
Vehicle Class	LDV/Passenger Car			DF Type			Mfr. Determined					
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 2 Bin 3	NOX	0.0010	--	--	--	0.002	--	0.003	0.040	Pass
CA	150,000 miles	California LEV-II SULEV	NOX	0.0010	--	--	--	0.002	--	0.003	0.010	Pass

Certification Summary Information Report

Test Group	BVWXV02.03PA					Evaporative/Refueling Family				BVWXR0125P46		
Test #	AVWX10004317					Test Procedure				90 - US06		
Exhaust Test # for this Evap Test	N/A					Test Fuel Type				61 - Tier 2 Cert Gasoline		
Test Date	03/05/2009					Fuel				Gasoline		
Vehicle Class	LDV/Passenger Car					DF Type				Mfr. Determined		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	4,000 miles	Federal Tier 2 Bin 3	CO	1.480	--	--	--	--	--	1.48	8.00	Pass
Fed	4,000 miles	Federal Tier 2 Bin 3	HC-NM+NOX	0.0315	--	--	--	--	--	0.032	0.140	Pass
Fed	120,000 miles	Federal Tier 2 Bin 3	CO	1.480	--	--	--	0.030	--	1.51	11.10	Pass
CA	4,000 miles	California LEV-II SULEV	CO	1.480	--	--	--	--	--	1.48	8.00	Pass
CA	4,000 miles	California LEV-II SULEV	HC-NM+NOX	0.0315	--	--	--	--	--	0.032	0.140	Pass

Test #	AVWX10004318					Test Procedure				95 - SC03		
Exhaust Test # for this Evap Test	N/A					Test Fuel Type				61 - Tier 2 Cert Gasoline		
Test Date	03/09/2009					Fuel				Gasoline		
Vehicle Class	LDV/Passenger Car					DF Type				Mfr. Determined		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	4,000 miles	Federal Tier 2 Bin 3	CO	0.190	--	--	--	--	--	0.19	2.70	Pass
Fed	4,000 miles	Federal Tier 2 Bin 3	HC-NM+NOX	0.0332	--	--	--	--	--	0.033	0.200	Pass
Fed	120,000 miles	Federal Tier 2 Bin 3	CO	0.190	--	--	--	0.030	--	0.22	3.70	Pass
CA	4,000 miles	California LEV-II SULEV	CO	0.190	--	--	--	--	--	0.19	2.70	Pass
CA	4,000 miles	California LEV-II SULEV	HC-NM+NOX	0.0332	--	--	--	--	--	0.033	0.200	Pass

Certification Summary Information Report

Test Group		BVWXV02.03PA			Evaporative/Refueling Family		BVWXR0125P46		
Consolidated List of Standards									
Exhaust Standards									
Cert Region		Federal			Cert/In-Use Code		Both		
Vehicle Class		LDV/Passenger Car			Standard Level		Federal Tier 2 Bin 3		
Fuel		Gasoline			Test Procedure		SC03		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
4,000 miles	CO	--	--	--	--	--	--	--	2.70
4,000 miles	HC-NM+NOX	--	--	--	--	--	--	--	0.200
120,000 miles	CO	--	--	--	--	--	--	0.030	3.70
Cert Region		Federal			Cert/In-Use Code		In-Use		
Vehicle Class		LDV/Passenger Car			Standard Level		Federal Tier 2 Bin 3		
Fuel		Gasoline			Test Procedure		Cold CO		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	--	10.0
120,000 miles	HC-NM	--	--	--	--	--	--	--	0.40
Cert Region		California + CAA Section 177 states			Cert/In-Use Code		Both		
Vehicle Class		LDV/Passenger Car			Standard Level		California LEV-II SULEV		
Fuel		Gasoline			Test Procedure		Federal fuel 2-day exhaust (w/can load)		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.03	1.00
150,000 miles	HCHO	--	--	--	--	--	--	0.0000	0.0040
150,000 miles	NMOG	--	1	1.04	--	--	--	0.0006	0.0100
150,000 miles	NOX	--	--	--	--	--	--	0.002	0.020
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.010

Certification Summary Information Report

Test Group	BVWXV02.03PA				Evaporative/Refueling Family	BVWXR0125P46			
Cert Region	Federal				Cert/In-Use Code	Both			
Vehicle Class	LDV/Passenger Car				Standard Level	Federal Tier 2 Bin 3			
Fuel	Gasoline				Test Procedure	Federal fuel 2-day exhaust (w/can load)			
					Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC					
120,000 miles	CO	--	--	--	--	--	--	0.030	2.10
120,000 miles	HC-NM+NOX-COMP	--	--	--	--	--	--	--	0.620
120,000 miles	HCHO	--	--	--	--	--	--	0.0000	0.0110
120,000 miles	NMOG	--	1	1.04	--	--	--	0.0006	0.0550
120,000 miles	NOX	--	--	--	--	--	--	0.002	0.030
120,000 miles	PM	--	--	--	--	--	--	0.0000	0.010

Cert Region	Federal				Cert/In-Use Code	Cert			
Vehicle Class	LDV/Passenger Car				Standard Level	Federal Tier 2 Bin 3			
Fuel	Gasoline				Test Procedure	Cold CO			
					Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC					
50,000 miles	CO	--	--	--	--	--	--	0.030	10.0
120,000 miles	HC-NM	--	--	--	--	--	--	0.0006	0.30

Cert Region	California + CAA Section 177 states				Cert/In-Use Code	Both			
Vehicle Class	LDV/Passenger Car				Standard Level	California LEV-II SULEV			
Fuel	Gasoline				Test Procedure	Fed. fuel 50 F exh.			
					Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC					
4,000 miles	CO	--	--	--	--	--	--	--	1.00
4,000 miles	HCHO	--	--	--	--	--	--	--	0.0080
4,000 miles	NMOG	--	1	1.04	--	--	--	--	0.0200
4,000 miles	NOX	--	--	--	--	--	--	--	0.020

Cert Region	Federal				Cert/In-Use Code	Both			
Vehicle Class	LDV/Passenger Car				Standard Level	Federal Tier 2 Bin 3			
Fuel	Gasoline				Test Procedure	HWFE			
					Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC					
120,000 miles	NOX	--	--	--	--	--	--	0.002	0.040

Certification Summary Information Report

Test Group		BVWXV02.03PA			Evaporative/Refueling Family		BVWXR0125P46		
Cert Region		California + CAA Section 177 states			Cert/In-Use Code		Both		
Vehicle Class		LDV/Passenger Car			Standard Level		California LEV-II SULEV		
Fuel		Gasoline			Test Procedure		US06		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
4,000 miles	CO	--	--	--	--	--	--	--	8.00
4,000 miles	HC-NM+NOX	--	--	--	--	--	--	--	0.140
Cert Region		California + CAA Section 177 states			Cert/In-Use Code		Both		
Vehicle Class		LDV/Passenger Car			Standard Level		California LEV-II SULEV		
Fuel		Gasoline			Test Procedure		Cold CO		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0.030	10.0
Cert Region		Federal			Cert/In-Use Code		Both		
Vehicle Class		LDV/Passenger Car			Standard Level		Federal Tier 2 Bin 3		
Fuel		Gasoline			Test Procedure		US06		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
4,000 miles	CO	--	--	--	--	--	--	--	8.00
4,000 miles	HC-NM+NOX	--	--	--	--	--	--	--	0.140
120,000 miles	CO	--	--	--	--	--	--	0.030	11.10
Cert Region		California + CAA Section 177 states			Cert/In-Use Code		Both		
Vehicle Class		LDV/Passenger Car			Standard Level		California LEV-II SULEV		
Fuel		Gasoline			Test Procedure		HWFE		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	NOX	--	--	--	--	--	--	0.002	0.010

Certification Summary Information Report

Test Group		BVWXV02.03PA			Evaporative/Refueling Family		BVWXR0125P46		
Cert Region		California + CAA Section 177 states			Cert/In-Use Code		Both		
Vehicle Class		LDV/Passenger Car			Standard Level		California LEV-II SULEV		
Fuel		Gasoline			Test Procedure		SC03		
					Upward Diesel Adjustment Factor		Downward Diesel Adjustment Factor		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
4,000 miles	CO	--	--	--	--	--	--	--	2.70
4,000 miles	HC-NM+NOX	--	--	--	--	--	--	--	0.200

Evaporative/Refueling Standards

Evaporative/Refueling Family		BVWXR0125P46			Cert Region		Federal		
Cert/In-Use Code		Both			Standard Level		Federal LEV-II Evap		
Test Procedure		Federal fuel refueling test (ORVR)							
Fuel	Useful Life	Emission Name			Rounded Result	Std		Add DF	
Gasoline	120,000 miles	HC			--	0.200		0.038	

Evaporative/Refueling Family		BVWXR0125P46			Cert Region		California + CAA Section 177 states		
Cert/In-Use Code		Both			Standard Level		California LEV-II Zero Evap		
Test Procedure		2-day evap							
Fuel	Useful Life	Emission Name			Rounded Result	Std		Add DF	
Gasoline	150,000 miles	HC-TOTAL			--	0.350		0.041	

Evaporative/Refueling Family		BVWXR0125P46			Cert Region		Federal		
Cert/In-Use Code		Both			Standard Level		Federal LEV-II Evap		
Test Procedure		2-day evap							
Fuel	Useful Life	Emission Name			Rounded Result	Std		Add DF	
Gasoline	120,000 miles	HC-TOTAL			--	0.650		0.034	

Evaporative/Refueling Family		BVWXR0125P46			Cert Region		Federal		
Cert/In-Use Code		Both			Standard Level		Federal LEV-II Evap		
Test Procedure		Federal fuel 3-day evap							
Fuel	Useful Life	Emission Name			Rounded Result	Std		Add DF	
Gasoline	120,000 miles	HC-TOTAL			--	0.500		0.034	

Certification Summary Information Report

Test Group	BVWXV02.03PA		Evaporative/Refueling Family	BVWXR0125P46	
Evaporative/Refueling Family	BVWXR0125P46		Cert Region	Federal	
Cert/In-Use Code	Both		Standard Level	Federal LEV-II Evap	
Test Procedure	Federal Fuel Running Loss				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	120,000 miles	HC	--	0.050	0.000
Evaporative/Refueling Family	BVWXR0125P46		Cert Region	California + CAA Section 177 states	
Cert/In-Use Code	Both		Standard Level	California LEV-II Zero Evap	
Test Procedure	Federal fuel 3-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL	--	0.350	0.041
Evaporative/Refueling Family	BVWXR0125P46		Cert Region	California + CAA Section 177 states	
Cert/In-Use Code	Both		Standard Level	California LEV-II Zero Evap	
Test Procedure	Federal fuel refueling test (ORVR)				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC	--	0.200	0.048
Evaporative/Refueling Family	BVWXR0125P46		Cert Region	California + CAA Section 177 states	
Cert/In-Use Code	Both		Standard Level	California LEV-II Zero Evap	
Test Procedure	Federal Fuel Running Loss				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC	--	0.050	0.000

Certification Summary Information Report

Test Group	BVWXV02.03PA	Evaporative/Refueling Family	BVWXR0125P46
Glossary			
Useful Life			
4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		
Emission Name			
HC-TOTAL	Total Hydrocarbon	HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides
CO	Carbon Monoxide	CO-COMP	SFTP Composite Carbon Monoxide
CO2	Carbon dioxide	ETHANOL	Ethanol
NOX	Nitrogen Oxide	FE BAG 1	Bag 1 Fuel Economy
PM	Particulate Matter	FE BAG 2	Bag 2 Fuel Economy
PM-COMP	SFTP Composite Particulate Matter	FE BAG 3	Bag 3 Fuel Economy
HC-NM	Non-methane Hydrocarbon	FE BAG 4	Bag 4 Fuel Economy
OMHCE	Organic material Hydrocarbon Equivalent	MFR FE	Manufacturer Fuel Economy
OMNMHCE	Organic material non-methane HC equivalent	SPITBACK	Spitback
NMOG	Non-methane organic gas (California)	HC	HC
HCHO	Formaldehyde	METHANE	Methane
H3C2HO	Acetaldehyde	METHANOL	Methanol
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03		
Certification Region			
CA	California + CAA Section 177 states	FA	Federal
Exhaust Emission Standard Level			
B1	Federal Tier 2 Bin 1	B11	Federal Tier 2 Bin 11
B2	Federal Tier 2 Bin 2	HDV1	Federal HDV (8500-10,000 GVWR)
B3	Federal Tier 2 Bin 3	HDV2	Federal HDV (10,001-14,000 GVWR)
B4	Federal Tier 2 Bin 4	L2	California LEV-II LEV
B5	Federal Tier 2 Bin 5	L2OP	California LEV-II LEV Optional
B6	Federal Tier 2 Bin 6	U2	California LEV-II ULEV
B7	Federal Tier 2 Bin 7	S2	California LEV-II SULEV
B8	Federal Tier 2 Bin 8	ZEV	California ZEV
B9	Federal Tier 2 Bin 9	OT	Other
B10	Federal Tier 2 Bin 10		
Transmission Type Code			
A	Automatic	M	Manual
AM	Automated Manual	OT	Other
CVT	Continuously Variable	SA	Semi-Automatic
Drive System Code			

Certification Summary Information Report

Test Group	BVWXV02.03PA	Evaporative/Refueling Family	BVWXR0125P46
4	4-Wheel Drive	P	Part-time 4-Wheel Drive
F	2-Wheel Drive, Front	A	All Wheel Drive
R	2-Wheel Drive, Rear		
Additional Terms and Acronyms			
AFC	Alternative Fuel Converter	ICI	Independent Commercial Importer
CSI	Certificate Summary Information	ORVR	Onboard Refueling Vapor Recovery
DF	Deterioration Factor	SIL	Shift Indicator Light
Evap	Evaporation, Evaporative	Trans	Transmission

Section 8	Pg. 1	Emission Testing Waiver	Engine Code	R.CH-No.:	Revision Date
Test Group		BVWXV02.03PA	all		

8. Emission Testing Waiver Statements

Please refer to Section 8 of the Common Sections Binder for the complete text of the following statements.

High Altitude Exhaust Emissions
High Altitude EVAP/Refueling Emissions
Spitback
Particulate Matter
Certification Short Test
Formaldehyde Emissions Compliance
OBD Compliance
Leak Free Exhaust System

Section 9	Pg. 1	OBD System Description	Engine Code	R.CH-No.:	Revision Date
Test Group		BVWXV02.03PA	all		

9.0 **OBD System Description**

9.1 **General Description**

Please refer to Common Section

9.2 **Summary Table**

Please refer to Confidential Section

9.3 **California Air Resources Board OBD System Approval Letter.**

Please refer to Confidential Section

Section 11 Pg. 1	AECD Description	Engine Code	R.CH-No.:	Revision Date
Test Group	BVWXV02.03PA	all		

11. Auxiliary Emission Control Devices (AECD) Descriptions

Control Device Configuration	Parameters Sensed	Parameters Controlled	Justification
cooling water thermostat	coolant temperature	coolant temperature	A
temperature sensor	coolant temperature	actuation of enrichment characteristic and coolant fan	A
pressure regulator	primary fuel pressure	primary fuel pressure	A
throttle valve position sensor	angel of throttle valve position	actuation of idle speed control, coasting fuel shut off, engine rpm limiting and full-load enrichment	A
knock sensor	engine knocking	ignition timing	A

Justification:

A: under all normal driving condition

B:

C:

Section 12	Pg. 1	Vehicles Covered by Certificate	Engine Code	R.CH-No.:	Revision Date
Test Group		BVWXV02.03PA	all		12-10-2010

List of Certified Vehicles

Dur. Group:	BVWXGPGNN3SA	Engine Displacement:	2.0 liters
Test Group:	BVWXV02.03PA	Valves / Cylinder:	4
Evap Family:	BVWXR0125P46	Sales Area:	50 States + Canada
Emission Control Sys.:	DFI/TWC/HO2S(3)/AIR/TC/CAC	MMS 1:	Bosch

Model	Carline	Engine Code	Transmission Code	SIL	Curb Wgt. [lbs]	ETW [lbs]	Fuel Tank Capacity [l]	Canister Working Capacity [g]	Tire Size
CC	CC	CCTA	MQ350-6F	n.a.	3329	3625	70	125	215/55 R16
CC	CC	CBFA	DQ250-6F	n.a.	3378	3625	70	125	215/55 R16

* Use J1930 Abbreviations

1) - Motor management system

Section 12	Pg. 2	Vehicles Covered by Certificate	Engine Code	R.CH-No.:	Revision Date
Test Group		BVWXV02.03PA	all		

Engine Code	Engine Code Characteristic					
	Cat Code		Com- pression ratio	Idle [rpm]	HP @ RPM	Torque [lbs.ft.] @ RPM
	Pre-Cat.	Main-Cat.				
CBFA	SI4910	SI4910	9.6 :1	760	200 @ 5100- 6000	207 @ 1700-5000

Section 12	Pg. 3	Vehicles Covered by Certificate	Engine Code	R.CH-No.:	Revision Date
Test Group		BVWXV02.03PA	all		12-10-2010

Transmission Code Characteristic VW Passat												
Transmission Code	Basic drivetrain layout	Trans./OD¹⁾	Lock-Up rpm		Gearbox Ratios							
			Gear	min/max	Axle	Gear 1	Gear 2	Gear 3	Gear 4	Gear 5	Gear 6	N/V Ratio
MQ350-6F	2WD	M6/2	n.a.	n.a.	1: 3,944 2: 3,087	3,357	2,087	1,469	1,098	1,108	0.927	39.2
DQ250-6F	2WD	L6/2	2 nd , 3 rd , 4 th , 5 th , 6 th	n.a.	1: 4,059 2: 3,136	3,462	2,050	1,300	0.902	0.914	0.756	32.4

1) Code number that describes if the ratio of the top gear of the transmission is less than 1. The value is 2 when this is true.

*) value = pre stage x axle

Section 13 Pg. 1		Engine Code	R.CH-No.:	Revision Date
Test Group	BVWXV02.03PA	all		

13.01 **Test Group Projected Sales**

Please Refer to Section 16 Confidential Information, of this test group

13.02 **Compliance Plans**

Refer to Section 16 Confidential Information, of the Common Sections
Binder

Section 14 Pg. 1		Engine Code	R.CH-No.:	Revision Date
Test Group	BVWXV02.03PA	all		

14. Request for Certificate

14.01. Statement of Compliance

The Volkswagen Group states that any element of design, system, or emission control device installed on or incorporated in the Volkswagen Group's new motor vehicles or new motor vehicle engines for the purpose of complying with standards prescribed under section 202 of the Clean Air Act, will not, to the best of the Volkswagen Group's information and belief, cause the emission into the ambient air of pollutants in the operation of its motor vehicles or motor vehicle engines which cause or contribute to an unreasonable risk to public health or welfare except as specifically permitted by the standards prescribed under section 202 of the Clean Air Act. The Volkswagen Group further states that any element of design, system, or emission control device installed or incorporated in the Volkswagen Group's new motor vehicles or new motor vehicle engines, for the purpose of complying with standards prescribed under section 202 of the Clean Air Act, will not, to the best of the Volkswagen Group's information and belief, cause or contribute to an unreasonable risk to public safety.

The term pollutant means:

- a. Diesel particulates
- b. Nickel
- c. MMT combustion products
- d. Ammonia
- e. Sulfates
- f. Hydrogen sulfide
- g. Hydrogen cyanide
- h. Ruthenium combustion products
- i. Nitrosamines

or any other pollutant which VW/AUDI has identified which can reasonably be expected to be emitted from these vehicles.

All vehicles have been tested in accordance with good engineering practice to ascertain that such test vehicles meet the requirement of this section for the useful life of the vehicle.

Section 14 Pg. 2		Engine Code	R.CH-No.:	Revision Date
Test Group	BVWXV02.03PA	all		

The test vehicles with respect to which data are submitted are in all material respects as described in the application for certification, have been tested in accordance with the applicable test procedures utilizing the fuels and equipment described in the application for certification, they meet the requirement of such tests, and on the basis of such tests, they conform to the requirements of the regulations in 40 CFR, Part 86, Subpart S.

The vehicles for which certification is requested conform to the requirements in 86.1810-01 (a) and the description of tests performed to ascertain compliance with the general standards in 86.1810-01 (a) and the data derived from such tests are available.

The testing described under 86.1824-01 has been designed and conducted in accordance with good engineering practice to assure that the vehicles covered by a certificate issued under 86.1848-01 will meet the evaporative emission standards in 86.1811-01 for the useful life of the vehicle.

14.02. Durability Statement

Based on the Volkswagen Group's good engineering judgment, all the vehicles described in this Application for Certification comply with all applicable intermediate and full useful life standards.

Section 15 Pg. 1	Other Information	Engine Code	R.CH-No.:	Revision Date
Test Group	BVWXV02.03PA	all		12-10-2010

15. Other Information

15.01 Revision Index

Part 1

Sect No.	Page No.	Date:	Comment:	R/C No.
Cover		12-10-10	Updated cover.	
6, 7, 8	1	12-10-10	Added Certificate Number	
7	CSI	12-10-10	Corrected CSI report automatic transmission codes	
12	1, 3	12-10-10	Added manual transmission information.	
16.09	end	12-10-10	Added OBD Monitor Checklist and DTC Inhibit Matrix	

Part 2

Sect No.	Page No.	Date:	Comment:	R/C No.
Part 2	all	12-10-10	Added Part 2	

Section 15	Pg. 2	Other Information	Engine Code:	R.CH-No.:	Revision Date:
Part 1	Test Group: BVWXV02.03PA		all		

15. Other Information

15.02 Running Change (RC) / Field Fix (FF) Log

Running Change / Field Fix Log for test group only.

RC / FF No.	Description of Change / Reason	Date

VOLKSWAGEN

GROUP OF AMERICA

Mr. Jim Snyder
Compliance and Innovative Strategies Division
Office of Mobile Sources
U. S. Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, MI 48105

Leonard W. Kata Name
Manager – Emis. Cert. Title
EEO Department
248-754-4204 Phone
248-754-4207 Fax
leonard.kata@vw.com E-Mail

June 29, 2010 Date

Subject: 2011 Model Year Volkswagen Light Duty Vehicle Initial Application for Emissions Certification -Test Group BVWXV02.03PA and Evaporative Family BVWXR0125P46

VOLKSWAGEN GROUP OF AMERICA, INC.
3800 HAMLIN ROAD
AUBURN HILLS, MI 48326
PHONE +1 248 754 5000

Dear Mr. Snyder,

We submit, with this letter, the model year 2011 Volkswagen Part 1 Application for Emissions Certification for the following Test Group:

<u>Test Group</u>	<u>Standards</u>	<u>Sales Area</u>
BVWXV02.03PA	Tier 2 BIN 3 LEV-II SULEV (PZEV)	Federal California

Copies of the Certification Fee filing form and OBD approval letter are contained in sections 15 and 16 of the included electronic application.

All vehicles within this test group comply with all applicable regulations contained in 40 CFR Part 86 and the compliance statements contained in sections 8 and 14.

This submission constitutes our final application and the request for issuance of a Certificate of Conformity.

If you have any questions with regard to this information please contact our office in Auburn Hills at (248) 754-4224.

Sincerely,



Leonard W. Kata
Volkswagen Group of America, Inc.

Engineering and Environmental Office

Enclosure(s)

Section 15	Pg. 3	Other Information	Engine Code	R.CH-No.:	Revision Date:
Part 1	Test Group:	BVWXV02.03PA	All		

ORVR Safety Application for Carry-over ORVR Systems

The information provided below is in accordance with EPA Dear Manufacturer Letter CCD-05-03 - Attachment A.

Name of current ORVR/Evaporative Family: BVWXR0125P46

- 1.) Name of most recent previously certified ORVR/Evaporative Family from which the current family is being carried over:

AVWXR0125P46

- 2.) Statement of No Substantial Changes:

There have been no substantial changes made from the previously certified ORVR system.

- 3.) List of changes that have been implemented:

- a) Larger fuel tank volume (from 55 liters to 70)
- b) New two chamber Evap canister with increased volume (from 2.1 liters to 2.5)
- c) Evap canister working capacity increased (from 110 grams to 125)
- d) Number of canister honeycombs increased from one to two.

- 4.) Statement of No In-Use Problems:

Volkswagen has issued no defect reports, service notifications, emissions or safety recalls, campaigns, instructions or bulletins to dealers or field personnel and there are no changes in production procedure or components related to the ORVR system except as listed below.

- a) None



U.S. ENVIRONMENTAL PROTECTION AGENCY
MOTOR VEHICLE AND ENGINE COMPLIANCE PROGRAM
ON-HIGHWAY FEE FILING FORM

FOR CERTIFICATION APPLICATIONS RECEIVED IN CALENDAR YEAR 2010

Manufacturer Name VOLKSWAGEN GROUP of AMERICA, Inc.

Address 3800 HAMLIN ROAD

City/State/Zip Code/Country AUBURN HILLS, MI 48326

On-Highway Certification Request Type (check one)

- LDV/LDT/MDPV/HDV (Chassis cert) FEDERAL (\$34,849)
- LDV/LDT/MDPV/HDV (Chassis cert) CAL-ONLY (\$17,591)
- HDE (Engine Dyno cert) FEDERAL (\$35,967)
- HDV EVAP-ONLY (\$511)
- HDE CALIF-ONLY (\$511)
- MOTORCYCLE (\$1,210)
- LD/MDPV/HDV ICI (\$47,928)

EPA standard engine family or test group or HDV Evaporative family name:

B V W X V 0 2 . 0 3 P A

Amount paid (U.S. Funds Only):

\$ 34,849.00

Enter the check number, or the statement "EFT/WIRE" or "EFT/ACH":

EFT/ACH

Reduced Fee Section (40 CFR §1027.120)

Reduced fee calculation (minimum initial payment \$750): Total number of vehicles/engines covered: _____

Aggregate retail sales price of the vehicles/engines: \$ _____ x 1% = \$ _____

Check box if an Independent Commercial Importer: List the VIN of imported vehicles/engines below:

Company Representative: RICHARD E. THOMAS

Signature: *Richard E. Thomas*

Title: Emission Cert Strategist

Phone/Fax: 248 754 4213

/ 248 754 4207

Date: 5 / 26 / 2010

E-mail Address: Richard.Thomas@VW.com

Submission of payments and forms:

- (1) Online: Forms may be found and submitted with or without payments online at www.Pay.gov.
- (2) Send checks and this form to:

Environmental Protection Agency
Motor Vehicle and Engine Compliance Program
P.O. Box 979032
St. Louis, MO 63197-9000

- (3) Transmit offline EFT/Wire payments to the New York Federal Reserve Bank. (See Instructions, p.2)
- (4) Transmit offline EFT/ACH payments to the Federal Reserve Bank of Cleveland. (Instructions, p.2)
- (5) Forms not submitted under (1) and (2) above can be sent as email attachments to Fees@epa.gov. Forms and payments sent in ways other than the above may be delayed or ineffective. See the Instructions for sending checks and forms by private mail service (e.g., Federal Express).

The public reporting and recordkeeping burden for this collection of information is estimated to average 18 minutes per response. Send comments on EPA's need for this information, the accuracy of the provided burden estimate, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques, to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., N.W., Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed Form 3520-29 to this address.

This form expires: 1/1/2011

VOLKSWAGEN

GROUP OF AMERICA

Ms. Annette Hebert, Division Chief
Mobile Source Operations Division
State of California
Air Resources Board Laboratory
9528 Telstar Avenue
El Monte, CA 91731

Leonard W. Kata Name
Manager – Emis. Cert. Title
EEO Department
248-754-4204 Phone
248-754-4207 Fax
leonard.kata@vw.com E-Mail

June 29, 2010 Date

Subject: 2011 Model Year Volkswagen Light Duty Vehicle Initial Application for Emissions Certification -Test Group BVWXV02.03PA and Evaporative Family BVWXR0125P46

VOLKSWAGEN GROUP OF AMERICA, INC.
3800 HAMLIN ROAD
AUBURN HILLS, MI 48326
PHONE +1 248 754 5000

Dear Ms. Hebert,

We submit, with this letter, the model year 2011 Volkswagen Part 1 Application for Emissions Certification for the following Test Group:

<u>Test Group</u>	<u>Standards</u>	<u>Sales Area</u>
BVWXV02.03PA	Tier 2 BIN 3 LEV-II SULEV (PZEV)	Federal California

The EPA Certificate of Conformity for the test group was uploaded to through the Document Management System with the application.

This submission constitutes our final application and the request for issuance of the Executive Order.

If you have any questions with regard to this information please contact our office in Auburn Hills at (248) 754-4224.

Sincerely,



Leonard W. Kata
Volkswagen Group of America, Inc.

Engineering and Environmental Office

Enclosure(s)

Section 17	Pg. 1	California ARB Information	Engine Code	R.CH-No.:	Revision Date
Test Group		BVWXV02.03PA	all		

17.01 California ARB Information

Please refer to the Common Section for the following information

Production Vehicle same as Test Vehicle Statement

Labeling Durability Statement

Drivability Statement

ASM Compliance Statement

17.02 Fill Pipe Specifications

Please refer to common section.

17.03 Evaporative Emission Deterioration Program

Please refer to common section.

Section 17	Pg. 2	California ARB Information	Engine Code	R.CH-No.:	Revision Date
Test Group		BVWXV02.03PA	all		

17.04 Assembly line NMOG / NMHC Factor

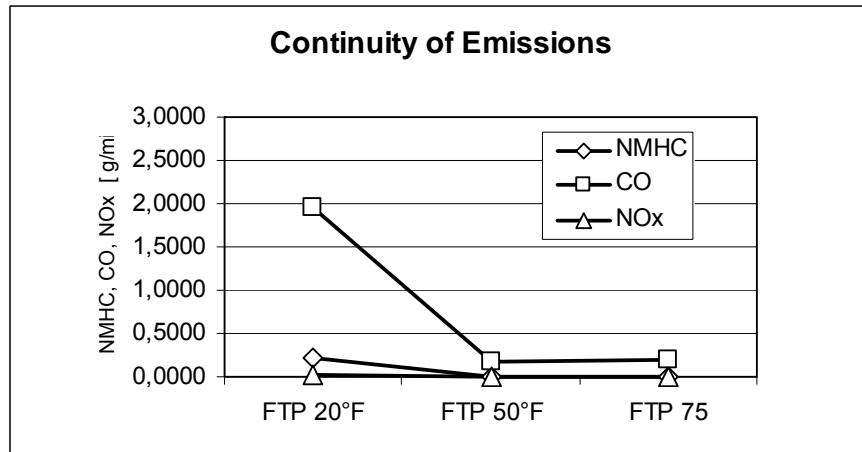
F_{NMOG}: 1.04 (no RAF applied)
According to ARB regulations

F_{HCHO} (Indolene): 0.03

F_{HCHO} (Phase II): 0.06

Compliance covered by statement according to regulations

17.05 Continuity of Emissions (EOS 465 00127/10)



Section 17	Pg. 3	California ARB Information	Engine Code:	R.CH-No.:	Revision Date:
Part 1	Test Group: BVWXV02.03PA		all		

2011 AIR RESOURCES BOARD SUPPLEMENTAL CERTIFICATION SUMMARY SHEET Page 1 of 2
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDUM-DUTY VEHICLES

Manufacturer: Volkswagen Durability Group: BVWXGPGNN3SA Test Group: BVWXV02.03PA
Evap Fam: 1) BVWXR0125P46
Evap Std: 1) Tier 2 / LEV II Zero Evap
Evaporative Emission T.P.: CA X Fed X R/L Test Proc: SHED Pt Source X
Zero-Evap NMOG Credit: Yes No X
Exh Std: CA Tier-1 TLEV LEV ULEVII SULEV X ; US EPA: Tier 2 Bin 3
DDV Basis: 100K 120K 150K X SFTP: Yes X No
Veh Type: LEV1: PC LDT1 LDT2 MDV1 MDV2 MDV3 MDV4
LEV2: PC/LDT X MDV GVWR <= 10K MDV GVWR > 10K
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 X CBG CNG LPG M85 Other (specify)
Diesel: 13 CCR 2282 40 CFR 86.113-90 40 CFR 86.113-94
Durability Service Accum: Whole Veh Full Mi Whole Veh Accel Mi X Bench Other
EDV Std Compliance: DF X Aged Parts Other
Exh ECS (use abbreviations per SAE J1930): ECS 1) DFI/TWC(2)/HO2S(3)/AIR/CAC/TC
EGR Type: n.a. AIR Type: electrical pump
Displ. (L): 2.0 Engine Config. I4 Turbo Valves per Cylinder: 4
Rated HP: 1) 200 @ 5100-6000 RPM
Engine: Front X Mid. Rear Drive: FWD X RWD 4WD-FT 4WD-PT
All Eng Codes in Test Group: **CA** **49S** **50S** X
NMOG Test Procedure: Std X Equiv RAF: NMOG n.a. CH4 n.a.
Mfr's NMOG Fleet Avg (g/mi): Ratio(NMOG w/o RAF): NMOG/NMHC 1.04 HCHO/NMHC 0.03
OBD2 Compliance: Full X Partial Partial w/0 fines
Test Veh.: DDV EDV
MY ID MY ID MY ID MY ID
2008 83PA-AVF 2010 462 00184/10 2010 465 00127/10

Evap Fam #)	ECS #)	Displ. (Liters)	Engine Code / CA/49ST/50ST	Vehicle Make / Models	Trans. (M5, A4, etc.)
2	1	2.0	CBFA / 50 ST	VW / CC	L6
2	1	2.0	CBFA / 50 ST	VW / CC	M6

Date Issued: 06-29-2010

Revisions: _____

Section 17	Pg. 4	California ARB Information	Engine Code:	R.CH-No.:	Revision Date:
Part 1	Test Group:	BVWXV02.03PA	all		

2011 MODEL-YEAR CERTIFICATION REVIEW SHEET
EXHAUST/EVAPORATIVE SYSTEM & CALIFORNIA REQUIREMENTS
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

E.O.# _____
Page 2 of 2

Manufacturer: Volkswagen Test Group: BVWXV02.03PA Evaporative Family: BVWXR0125P46

PROJECTED EMISSIONS

(g/mi, except g/test for evap., g/gal Refuel.) (1), (2)

Eng Data Vehicle ID (D Test version	ine Code ispl) Lo	Test c. T	(Check One)		MPG City/Hwy	(Check One)		20°F Hwy CO	PM	NOx	CO2	EVAPORATIVE								
			TW/ ETW X	DPA/ RLHP		NMHC X NMOG	CO					NO	x H	CHO**	City 3-day D+HS	3-day R/L	D+ D+	2-day HS	ORV	R
465 00127/10 0	CBFA 119.9	Mfr. L6	3875	*	27.5/41.5 @ 120K	n.a	n.a	n.a	n.a.	n.a.	n.a.	2.0	0.004	0.003	321	--	--	--	--	--
461-60137/06 00	CBFA 119.9	Mfr. L6	4250	--/--	@ 150K										0.230	0.000	0.234	0.106		
(1)	The EDV (s) above comply with standards of (@ 50K):		n.a.	n.a.	n.a.	n.a.	10.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	(@ 100K / (150K Evap) for PC,LDT, MDV):		0.010	1.0	0.02	0.004	n.a	n.a.	0.03	n.a.	n.a.	0.35	0.05	0.35	0.20					
	The NMOG values include Reactivity Adjustment Factor(s) (RAF) of:		Not Applicable <u>X</u>		NMOG	Methane (CNG or LNG only) _____														
	Emission values include deterioration factors (DF's) with RAF deterioration, (if applicable) of (50K):		n.a.	n.a.	n.a.	n.a.	0.03	n.a	--	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	(120K (150K Evap) for PC,LDT and MDV):		0.0006	0.03	0.002	0.0000	n.a	n.a	--	n.a.	0.014	0.000	0.014	0.000	0.014	0.000				
	LEV/ULEV/SULEV 50°F emissions (without RAF and DFs):		0.0068	0.18	0.006	n.a.														
	LEV/ULEV/SULEV 50°F standards:		0.020	1.0	0.02	n.a.														

- (2) Evaporative DF is based on bench testing only. :
Results **3-day D+HS** Bench DF 0.041 ; **R/L** Bench DF 0.000 **2-day D+HS** Bench DF 0.041 ; **ORVR** Bench DF 0.048
- (3) List configuration with highest projected sales first

Remarks : * according Road Track Adjustment Procedure, refer to common section 12 *** HCHO compliance by statement.
** All NMOG values are calculated from NMHC using a factor of 1.04. Used for certification and assembly line testing..
Results: US06: NMHC + NOx = 0.032, CO = 1.48; SC03: NMHC + NOx = 0.033, CO = 0.19
US06 standards: NMHC + NOx = 0.14, CO = 8.0; SC03 standards: NMHC + NOx = 0.20, CO = 2.7
CO2 values: **HFET** - 03/05/2009: 213 g/mi // **US06** - 03/05/2009: 314 g/mi // **SC03** - 03/09/2009: 432 g/mi

Application
Processed by: _____ Date: _____ Reviewed by: _____ Date: _____

Date Issued: 06-16-2010 Revised: _____



Volkswagen AG, a member of the Volkswagen Group

Application for Emissions Certification Part 2

2011 Model Year

Durability Group: BVWXGPGNN3SA

Evap. Families: BVWXR0125P46

Test Group: BVWXV02.03PA

Certificate Number: BVWXV02.03PA-006

Durability Group Description: Four Stroke, Otto Cycle, Gasoline Fueled,
Direct Fuel Injection, AIR, Catalyst Code: SI4910

Test group Description: 2.0 Liter I4 – LDV

Applicable Standards: 50-State: CA: Federal:
LEV-II SULEV-Zero Evap.
(qualifies as a PZEV)

Carlines Covered: Volkswagen CC

Issue Date: 12-10-2010

For Questions, Contact:
Robert Hart, (248) 754-4224
William Rodgers, (248) 754-4219

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Section 21	Vehicle Emission Control Information (Tune-Up) Part Numbers	
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Section 22	Calibration Information	
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Section 23	Vehicle Description	- see Test Group Sections
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Section 24	Final US Sales	- see Common Sections
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Section 25	Service Manuals, Service Bulletins, Owners Manuals and Warranty Booklets	Information provided directly at the time of distribution to the dealers. Provided under separate cover.
-		

Section 21	Pg. 1	Other Information	Engine Code:	R.CH-No.:	Revision Date:
Part 2	Test Group:	BVWXV02.03PA	all		

Vehicle Emission Control Information

Part Numbers

LABEL VW Passat

 VOLKSWAGEN VEHICLE EMISSION CONTROL INFORMATION	
Conforms to regulations: <u>2011 MY</u>	
U.S. EPA: <u>T2B3</u> <u>LDV</u>	OBD: <u>CA II</u> Fuel: <u>Gasoline</u>
California: P <u>ZEV</u> <u>PC</u>	OBD: <u>CA II</u> Fuel: <u>Gasoline</u>
No adjustments needed.	DFI/ <u>AIR</u> /TWC(2)/HO2S(3)/CAC/TC
Group: BVWXV02.03PA Evap: BVWXR0125P46	06J 010 752 S

Section 21	Pg. 2	Other Information	Engine Code:	R.CH-No.:	Revision Date:
Part 2	Test Group:	BVWXV02.03PA	all		

21.03 Production Engine Parameters

Parts List

Part	Part Number
emission control label (my2011)	06J 010 752 S
intake air cleaner (assembly)	1K0 129 601 CD
intake manifold	06J 145 713 A
altern.	06J 145 713 D
Turbocharger assembly	06J 145 713 A
add.	06J 145 713 D
charge Air Cooler Passat	3C0 145 805 R
charge over valve	06F 906 283 F
engine temperature sensor ntc	06A 919 501 A
engine thermostat	06F 121 111 J
Intake air temperature sensor	06B 905 379 D
mass air flow sensor (intake air sens. incl.)	06J 906 461 B
Intake air pressure sensor	038 906 051 D
engine speed sensor	06H 906 433
fuel pressure sensor (high pressure)	06J 906 051 B
injection valves	06H 906 036 Q
secondary air Injection pump	07K 959 253 A
secondary air Injection control valve	06J 131 097 D

Section 21	Pg. 3	Other Information	Engine Code:	R.CH-No.:	Revision Date:
Part 2	Test Group: BVWXV02.03PA		all		

21.03 Production Engine Parameters

Parts List (cont.)

Part	Part Number
throttle part and idle control valve	06F 133 062 J
ignition Coil	06H 905 115
knock Sensor	06E 905 377 A
camshaft position sensor	07L 905 163 A
camshaft Adjuster	06H 109 088 C
camshaft adjuster control valve	07L 905 163 A
crankcase ventilation valve	06H 103 495 A
altern.	06H 103 495 E
EVAP purge valve	06H 906 517 H
EVAP carbon canister Passat	3C0 201 797 E
catalytic converter	1K0 131 701 DM
warm up catalytic converter	1K0 131 690 CA
front oxygen sensor Passat	06J 906 262
middle oxygen sensor Passat	06J 906 262 C
rear oxygen sensor Passat	06F 906 262 AE

Section 21	Pg. 4	Other Information	Engine Code:	R.CH-No.:	Revision Date:
Part 2	Test Group: BVWXV02.03PA		all		

21.02 Production Engine Parameters

Parts List (cont.)

Engine Control Module

Engine Control Module

CARLINE	ENGINE CODE	Transm. / Drive	Cal-ID		CVN calibration verification no	REMARKS
			PART NUMBER	SOFTWARE LEVEL		
Passat Passat wagon Passat CC	CBFA	L 6 FWD	06J 906 027 G	8072	492EF113	SOP

Section 21	Pg. 5	Other Information	Engine Code:	R.CH-No.:	Revision Date:
Part 2	Test Group:	BVWXV02.03PA	all		

21.02 Production Engine Parameters

Parts List (cont.)

Automatic Transmission Control Module

Transmission Control Module

CARLINE	ENGINE CODE	TRANSM. CODE / Drive	Cal-ID		CVN calibration verification no	REMARKS
			PART NUMBER	SOFTWARE LEVEL		
Passat Passat wagon Passat CC	CBFA	DQ250-6F FWD	02E 300 053 M	2203	45 cd	SOP

Section 22	Pg. 1	Other Information	Engine Code:	R.CH-No.:	Revision Date:
Part 2	Test Group: BVWXV02.03PA		all		

22.00 Calibration Information

Emission Component	Parameter	Calibration	Engine Code
			CBFA
fuel system		refer to sect. 22.01	
fuel pressure regulator	fuel pressure high	50 – 150 bar	
	fuel pressure low	4.5 – 6.8 bar	
AIR system		refer to sect 22.03	
EGR system		not applicable	
ignition system		refer to sect. 22.04	
EVAP system		refer to sect. 22.05	
miscellaneous			
Thermostat	starts to open	95°C	
	fully open by	105°C	

Section 22	Pg. 2	Other Information	Engine Code:	R.CH-No.:	Revision Date:
Part 2	Test Group:	BVWXV02.03PA	all		

22.01 Calibration Information fuel system

The motor management system controls lambda as a function of engine speed and engine load and various input signals to the ECM (please refer to sect. 16.09). The basic calibrations are related to the CAL ID and CVN of the ECM.

22.02 Calibration Information EGR system

not applicable

22.03 Calibration Information AIR system

The motor management system enables the AIR system as a function of engine temperature, intake air temperature and intake air mass. The basic calibration is related to the CAL ID and CVN of the ECM.

22.04 Calibration Information ignition system

The motor management system determines the ignition timing as a function of engine speed and engine load. The basic calibrations are related to the CAL ID and CVN of the ECM.

22.05 Calibration Information EVAP system

The motor management system calculates the actual purge rate as a function of engine speed, engine load, intake manifold pressure, ambient pressure and canister loading value. The basic calibrations are related to the CAL ID and CVN of the ECM.