



Bugatti Automobiles S.A.S, a member of the Volkswagen Group

Application for Emissions Certification Part 1

2014 Model Year

Durability Group: EBGTGPGNNV16

Evap. Family: EBGTR0230V16

Test Group: EBGTV08.0V16

Certificate Number: EBGTV08.0V16-001

Durability Group Description: Four Stroke, Otto Cycle, Gasoline Fueled,
Sequential Port Fuel Injection,
Catalyst Codes: REX 1365 M20 /TEX 0130 M

Test group Description: 8.0l SFI/AIR/4WU-TWC/2TWC/4HO2S(2)4TC/2CAC- LDV

Applicable Standards: 50-State: Federal: Tier 2 BIN 5
California: LEV II LEV

Carlines Covered: Bugatti Veyron
Bugatti Grand Sport
Bugatti Super Sport

Vehicles Tested:

VID	Config.	Test Type / #		Test Type / #	
BAX-US100/10	0	FTP /	ABGT10008316	HFET /	ABGT10008318
BAX- US100/10	0	Cold CO /	ABGT10008319	50°F FTP /	ABGT10008321
BAX- US100/10	0	US06 /	ABGT10008317	SC03 /	ABGT10008320
BAX-US100/06	0	3-Day /	6BGT01067411	2-Day /	6BGT09004555
BAX-US100/06	0	Running Loss /	6BGT10001803	ORVR /	6BGT01067415

Issue Date: 04-16-2013

Update: 11-11-2013

For Questions, Contact:

Michael Giles, (248) 754-4229
William Rodgers, (248) 754-4219

Table of Contents - Part 1

Section 01	- Correspondence and Communications	-	refer to Common Sections
Section 02	- Durability Group Description	-	refer to Common Sections
Section 03	- Evaporative/Refueling Family Description	-	refer to Common Sections
Section 04	- Durability Procedure Description	-	refer to Common Sections
Section 05	- Test Group Description		
Section 06	- Test Vehicle Description		
Section 07	- Test Results		
Section 08	- Emission Testing Waiver Statements		
Section 09	- OBD System Description		
Section 10	- Description of Alternate-fueled Vehicles	-	Not Applicable
Section 11	- AECD Description		
Section 12	- Description of vehicles covered by certificate and test parameters		
Section 13	- Projected Sales		
Section 14	- Request for Certificate		
Section 15	- Other Information		
Section 16	- Confidential Information		
Section 17	- California ARB Information		

Table of Contents - Part 2

Section 21 -	Vehicle Emission Control Information Label, Part Numbers	- see Test Group Sections
Section 22 -	Calibration Information	- see Test Group Sections
Section 23 -	Vehicle Description	- see Test Group Sections
Section 24 -	Final US Sales	Please Refer to Sec. 16.24
Section 25 -	Service Manuals, Service Bulletins	Information provided directly at the time of distribution to the dealers.
	Owners Manuals and Warranty Booklets	Provided under separate cover.

Section 5	Pg. 1	Test Group Description	Engine Code	R.CH-No.:	Revision Date
Part 1/Test Group		EBGTV08.0V16	all		

5.1 Test Group Description

Test Group Name	EBGTV08.0V16
Certificate Number	EBGTV08.0V16-001
Engine displacements covered	8.0 Liters
Arrangement and number of cylinders	W16 in-line
Vehicle class (es) covered	LDV
Federal Emissions Standards Class	Tier 2 BIN 5
California Emissions Standards Class	LEV II / LEV

5.2 Test Group Emission Standards

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

Section 5	Pg. 1	Test Group Description	Engine Code	R.CH-No.:	Revision Date
Part 1/Test Group		EBGTV08.0V16	all		

5.3 Test Group Cold NMHC Emission Standards

In accordance with §86.1811-10, the following vehicles of this test groups are parts of the Cold NMHC phase in and are certified to fulfill the following family emission limits (FEL):

Certification FEL = 1.5 g/mi
Interim in-use FEL = 1.6 g/mi (MY 2013 and 2014)

Model	Engine Code	Transmission
Bugatti Veyron	CBXA	L7
Bugatti Grand Sport	CBXA	L7
Bugatti Super Sport	CBLA	L7

Section 6	Pg. 1	Test Vehicle Description	Engine Code	R.CH-No.:	Revision Date
Part 1/Test Group		EBGTV08.0V16	all		

6. Test Vehicle Description

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

Certificate Number: EBGTV08.0V16-001
 Test Group: EBGTV08.0V16
 Evaporative/Refueling Family: EGTR0230V16

VID	Config.	Vehicle Type	Tests Performed
BAX-US100/10	0	Cert. Emission 4k miles	FTP, HFET, Cold FTP, SFTP, ASM, Cold CO, CST
BAX-US100/06	0	Cert. Emission 150k miles	ORVR, 2-day SHED, 3-day SHED

Section 7	Pg. 1	Test Results	Engine Code	R.CH-No.:	Revision Date
Part 1/Test Group		EBGTV08.0V16	all		

7. Test Results

Please refer to included Certification Summary Information Report.

Certification Summary Information Report

Manufacturer	Bugatti Automobiles S.A.S.	Manufacturer Code	BGT						
Test Group	EBGTV08.0V16	Evaporative/Refueling Family	EBGTR0230V16						
Certificate Number	N/A	CARB Executive Order #	N/A						
Certificate Issue Date	N/A	Certificate Revision Date	N/A						
Certificate Effective Date	N/A	Conditional Certificate	--						
CSI Revision #	N/A	CSI Submission/Revision Date	04/09/2013						
Model Year	2014								
Test Group Information									
CSI Type	New	Running Change Reference Number	N/A						
GHG Exempt Status	Not Exempt								
Drive Sources and Fuel(s)									
Drive Source #1:	Combustion Engine								
	<table border="1"> <thead> <tr> <th>Fuel</th> <th>Basic Fuel Metering System</th> <th>Lean Burn Strategy Indicator</th> </tr> </thead> <tbody> <tr> <td>Gasoline</td> <td>Multipoint/sequential fuel injection</td> <td>N</td> </tr> </tbody> </table>			Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator	Gasoline	Multipoint/sequential fuel injection	N
Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator							
Gasoline	Multipoint/sequential fuel injection	N							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	--						
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	--						
Fuel Cell Indicator	--	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	No						
Durability Group Name	EBGTGPGNNV16	Durability Group Equivalency Factor	1						
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA						
Complies with HD GHG 2b/3 regulations?	No								
Introduction into Commerce Date	--	CAP2000 Conditional Certificate?	N/A						
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--						
SFTP Compliance Indicator	Yes	SFTP Composite CO Option	No						
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	EBGTV08.0V16						
Mfr Test Group Comments	This is a carryover test group from 2013.								
Mfr Exhaust / Evap Standards Comments	--								

Certification Summary Information Report

Test Group	EBGTV08.0V16	Evaporative/Refueling Family	EBGTR0230V16				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	04/09/2013				
Integrated ORVR?	Yes	Fuel(s)	Gasoline				
Multiple Fuel Storage	--						
Bladder Fuel Tank?	No						
Fuel Tank Material	Metal	Fuel Tank Material Description	ALUMINUM				
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)	230	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 2 / CALIFORNIA LEV II EVAP STANDARDS						
Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Bugatti Automobiles S.A.S.	1 - Bugatti	500 - Veyron	Federal	All Wheel Drive	Automated Manual-Selectable (e.g. Automated Manual with paddles)	7	Yes
Bugatti Automobiles S.A.S.	1 - Bugatti	500 - Veyron	California + CAA Section 177 states	All Wheel Drive	Automated Manual-Selectable (e.g. Automated Manual with paddles)	7	Yes
Engine Description							
Hybrid Type	--	Hybrid Description	--				
Engine Type	4-Stroke Spark Ignition	Mfr Engine Description	--				
Engine Block Arrangement	W-shaped engine	Mfr Engine Block Arrangement Description	--				
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	10W60 VW 50101 / 50500				
Number of Cylinders/Rotors	16						
After Treatment Device(s) (ATD)							
ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction			
1	Three-way catalyst	Platinum + Palladium + Rhodium	Metal	Monolith			
2	Three-way catalyst	Platinum + Palladium + Rhodium	Metal	Monolith			
3	Three-way catalyst	Platinum + Palladium + Rhodium	Metal	Monolith			
4	Three-way catalyst	Platinum + Palladium + Rhodium	Metal	Monolith			
5	Three-way catalyst	Platinum + Palladium + Rhodium	Metal	Monolith			
6	Three-way catalyst	Platinum + Palladium + Rhodium	Metal	Monolith			
Mfr After Treatment Device (ATD) Comments	4 PRE-CATALYSTS / 2 UNDERFLOOR CATALYSTS						
Direct Ozone Reduction (DOR) Device	Not Equipped						
Mfr Emission Control Device Comments	--						

Certification Summary Information Report

Test Group	EBGTV08.0V16	Evaporative/Refueling Family	EBGTR0230V16
Engine Configuration Number 1			
Engine Displacement (liters)	8.0	Engine Rated Horsepower	1200
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	4
Air Aspiration Device Configuration	Parallel	Charge Air Cooler Type	Liquid
Cylinder Deactivation Description	N/A		
Variable Valve Timing System Description	INLET AND OUTLET CONTINUOUSLY VARIABLE / MECHANICAL-HYDRAULIC	Variable Valve Lift System	N/A
Number of Knock Sensors	0		
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
Air/Fuel Sensor # 4 Type	Heated oxygen	Air/Fuel Sensor # 4 Description	N/A
Air/Fuel Sensor # 5 Type	Heated oxygen	Air/Fuel Sensor # 5 Description	N/A
Air/Fuel Sensor # 6 Type	Heated oxygen	Air/Fuel Sensor # 6 Description	N/A
Air/Fuel Sensor # 7 Type	Heated oxygen	Air/Fuel Sensor # 7 Description	N/A
Air/Fuel Sensor # 8 Type	Heated oxygen	Air/Fuel Sensor # 8 Description	N/A
Mfr Air/Fuel Sensor Comments	--		
Exhaust Gas Recirculation	No	EGR Type	--
Cooled Exhaust Gas Recirculation	--		
Closed Loop Air Injection System	No	Air Injection Type	--
Mfr Engine Configuration Comments	CHARGE AIR COOLER (AIR / LIQUID) - - SFI/AIR/4TC/2CAC/4WU- TWC/2TWC/4HO2S(2) This configuration is in the Bugatti GT.		

Certification Summary Information Report

Test Group	EBGTV08.0V16				Evaporative/Refueling Family	EBGTR0230V16					
Engine Configuration Number 2											
Engine Displacement (liters)	8.0				Engine Rated Horsepower	1001					
Number of Inlet Valves Per Cylinder	2				Number of Exhaust Valves Per Cylinder	2					
Air Aspiration Method	Turbocharged				Number of Air Aspiration Devices	4					
Air Aspiration Device Configuration	Parallel				Charge Air Cooler Type	Liquid					
Cylinder Deactivation Description	N/A										
Variable Valve Timing System Description	INLET AND OUTLET CONTINUOUSLY VARIABLE / MECHANICAL-HYDRAULIC				Variable Valve Lift System	N/A					
Number of Knock Sensors	0										
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					
Air/Fuel Sensor # 4 Type	Heated oxygen				Air/Fuel Sensor # 4 Description	N/A					
Air/Fuel Sensor # 5 Type	Heated oxygen				Air/Fuel Sensor # 5 Description	N/A					
Air/Fuel Sensor # 6 Type	Heated oxygen				Air/Fuel Sensor # 6 Description	N/A					
Air/Fuel Sensor # 7 Type	Heated oxygen				Air/Fuel Sensor # 7 Description	N/A					
Air/Fuel Sensor # 8 Type	Heated oxygen				Air/Fuel Sensor # 8 Description	N/A					
Mfr Air/Fuel Sensor Comments	--										
Exhaust Gas Recirculation	No				EGR Type	--					
Cooled Exhaust Gas Recirculation	--										
Closed Loop Air Injection System	No				Air Injection Type	--					
Mfr Engine Configuration Comments	CHARGE AIR COOLER (AIR / LIQUID) - - SFI/AIR/4TC/2CAC/4WU-TWC/2TWC/4HO2S(2) This configuration is in the Bugatti Veyron and Grand Sport.										
Official Test Numbers											
Test Group	Fuel	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Gasoline		ABGT10008316	ABGT10008317	ABGT10008320	ABGT10008319	ABGT10008318	8.4	7.9	14.8	12.4	N/A

Certification Summary Information Report

Test Group	EBGTV08.0V16	Evaporative/Refueling Family	EBGTR0230V16																																						
Emission Data Vehicle Information																																									
Vehicle ID / Configuration	BAX-US100/06 / 0																																								
Vehicle Model																																									
Represented Test Vehicle Make	Bugatti	Represented Test Vehicle Model	Veyron																																						
Drive Sources and Fuel System Details																																									
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Hybrid Indicator	N	Multiple Fuel Combustion	--																																						
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Rechargeable Energy Storage System	--																																								
Off-board charge Capable Indicator	--																																								
Transmission Type	Automatic	# of Transmission Gears	7																																						
Engine Code	BNN	Axle Ratio	2.59																																						
Displacement (liters)	7.997	Rated Horsepower	1001																																						
Equivalent Test Weight (pounds)	4750	Air Aspiration Method	Turbocharged																																						
Drive Mode While Testing	4-Wheel Drive	SIL Usage	Not equipped																																						
Aged Emission Components	4,000 (mi)																																								
Dynamometer Coefficients:																																									
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Coefficient Category	Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients																																	
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US06	60	0.59	0.0185	17	0.21	0.0215	N/A																																		
Manufacturer Test Vehicle Comments	VEHICLE CARRIED OVER FOR EVAPORATIVE EMISSIONS TESTS ONLY. 4K EVAPORATIVE EMISSIONS COMPONENTS USED.																																								

Certification Summary Information Report

Test Group	EBGTV08.0V16	Evaporative/Refueling Family	EBGTR0230V16					
Test #	6BGT01067411	Test Procedure	34 - Federal fuel 3-day evap					
Exhaust Test # for this Evap Test	6BGT01067373	Test Fuel Type	61 - Tier 2 Cert Gasoline					
Test Date	09/27/2005	Fuel	Gasoline					
Vehicle Class	N/A	DF Type	EPA Assigned					
Verify Test Lab ID	Volkswagen AG, Dept EASZ/1							
Test Results								
	Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value					
	Total Hydrocarbon	0.43	--					
Manufacturer Test Comments FED FUEL 3-DAY EVAP TEST								
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	0.4300	0.005	0.435	0.500	Pass
CA	150,000 miles	California LEV-II Evap	HC-TOTAL	0.4300	0.006	0.436	0.500	Pass
Test #	6BGT09004555	Test Procedure	23 - 2-day evap					
Exhaust Test # for this Evap Test	6BGT09004554	Test Fuel Type	61 - Tier 2 Cert Gasoline					
Test Date	04/05/2006	Fuel	Gasoline					
Vehicle Class	N/A	DF Type	EPA Assigned					
Verify Test Lab ID	Volkswagen AG, Dept EASZ/1							
Test Results								
	Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value					
	Total Hydrocarbon	0.4722	--					
Manufacturer Test Comments EPA CONFIRMATORY TEST - OT_SOAK_HC_(G) = 0.079007 DIURNAL (GHC) = 0.393241 OT_SOAK_HC_(G) = 0.079007 DIURNAL (GHC) = 0.393241								
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	0.4722	0.005	0.477	0.650	Pass
CA	150,000 miles	California LEV-II Evap	HC-TOTAL	0.4722	0.006	0.478	0.650	Pass

Certification Summary Information Report

Test Group	EBGTV08.0V16	Evaporative/Refueling Family	EBGTR0230V16					
Test #	6BGT01067415	Test Procedure	24 - Federal fuel refueling test (ORVR)					
Exhaust Test # for this Evap Test	6BGT01067369	Test Fuel Type	61 - Tier 2 Cert Gasoline					
Test Date	08/30/2005	Fuel	Gasoline					
Vehicle Class	N/A	DF Type	EPA Assigned					
Verify Test Lab ID	Volkswagen AG, Dept EASZ/1							
Test Results								
Test Result Name		Unrounded Test Result	Verify Calculated FE MPG Equivalent Value					
Hydrocarbon for Running Loss and ORVR		0.006	--					
Manufacturer Test Comments ORVR TEST								
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	0.0060	0	0.006	0.200	Pass
CA	150,000 miles	California LEV-II Evap	HC	0.0060	0	0.006	0.200	Pass
Test #	6BGT10001803	Test Procedure	32 - Federal Fuel Running Loss					
Exhaust Test # for this Evap Test	6BGT01067373	Test Fuel Type	61 - Tier 2 Cert Gasoline					
Test Date	09/27/2005	Fuel	Gasoline					
Vehicle Class	N/A	DF Type	EPA Assigned					
Verify Test Lab ID	Volkswagen AG, Dept EASZ/1							
Test Results								
Test Result Name		Unrounded Test Result	Verify Calculated FE MPG Equivalent Value					
Hydrocarbon for Running Loss and ORVR		0	--					
Manufacturer Test Comments FED FUEL RUNNING LOSS TEST								
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	0.000	0.050	Pass
CA	150,000 miles	California LEV-II Evap	HC	0.0000	0	0.000	0.050	Pass

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Test Group	EBGTV08.0V16	Evaporative/Refueling Family	EBGTR0230V16																																						
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Vehicle ID / Configuration	BAX-US100/10 / 0																																								
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Coefficient Category	Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients																																	
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)																																			
City/Highway/Evap	60	0.59	0.0185	16	0.022	0.0204	18.1																																		
Cold CO	67	0.653	0.0204	18	0.025	0.0225	N/A																																		
US06	60	0.593	0.0185	16	0.022	0.0204	N/A																																		
Manufacturer Test Vehicle Comments	EDV Bugatti Veyron Super Sport tested as a Veyron Super Sport 2 dr. Sedan - ETW: 4750																																								

Certification Summary Information Report

Test Group	EBGTV08.0V16	Evaporative/Refueling Family	EBGTR0230V16
Test #	ABGT10008316	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	11/25/2009	Fuel	Gasoline
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Volkswagen AG, Dept EASZ/1		

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
Bag 1 Fuel Economy	9.8	9.8
Bag 2 Fuel Economy	9.2	9.2
Bag 3 Fuel Economy	12.2	12.2
CH4 - Methane	0.0126	--
Carbon Monoxide	0.214	--
Formaldehyde	0.0014	--
Manufacturer Fuel Economy	10	10
Nitrogen Oxide	0.028	--
Nitrous Oxide	0.01	--
Non-methane Hydrocarbon	0.0339	--
Non-methane organic gas (California)	0.0353	--
Total Hydrocarbon	0.0463	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	885	885
Optional Carbon-Related Exhaust Emissions	888	889

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	885	885

Manufacturer Test Comments

4k FED. FUEL FTP - Tested as BUGATTI Veyron Super Sport Sedan 2 dr. EDV - ETW: 4750

Certification Summary Information Report

Test Group		EBGTV08.0V16			Evaporative/Refueling Family					EBGTR0230V16		
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 5	CO	0.214	--	--	--	0.1	--	0.31	3.40	Pass
Fed	50,000 miles	Federal Tier 2 Bin 5	HCHO	0.00140	--	--	--	0.0001	--	0.0015	0.0150	Pass
Fed	50,000 miles	Federal Tier 2 Bin 5	NMOG	0.03530	1	1.04	--	0.005	--	0.0403	0.0750	Pass
Fed	50,000 miles	Federal Tier 2 Bin 5	NOX	0.0280	--	--	--	0.00	--	0.028	0.050	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	CO	0.214	--	--	--	0.3	--	0.51	4.20	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	CREE	885	--	--	--	0.00	--	885	--	--
Fed	120,000 miles	Federal Tier 2 Bin 5	HC-NM+NOX-COMP	0.0740	--	--	--	--	--	0.074	0.650	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	HCHO	0.00140	--	--	--	0.0003	--	0.0017	0.0180	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	METHANE	0.01260	--	--	--	0.012	--	0.0246	999.9999	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	NMOG	0.03530	1	1.04	--	0.012	--	0.0473	0.0900	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	NOX	0.0280	--	--	--	0.01	--	0.038	0.070	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	OPT-CREE	889	--	--	--	0.00	--	889	--	--
CA	50,000 miles	California LEV-II LEV	CO	0.214	--	--	--	0.1	--	0.31	3.40	Pass
CA	50,000 miles	California LEV-II LEV	HCHO	0.00140	--	--	--	0.0001	--	0.0015	0.0150	Pass
CA	50,000 miles	California LEV-II LEV	NMOG	0.03530	1	1.04	--	0.005	--	0.0403	0.0750	Pass
CA	50,000 miles	California LEV-II LEV	NOX	0.0280	--	--	--	0.00	--	0.028	0.050	Pass
CA	120,000 miles	California LEV-II LEV	CO	0.214	--	--	--	0.3	--	0.51	4.20	Pass
CA	120,000 miles	California LEV-II LEV	HCHO	0.00140	--	--	--	0.0003	--	0.0017	0.0180	Pass
CA	120,000 miles	California LEV-II LEV	NMOG	0.03530	1	1.04	--	0.012	--	0.0473	0.0900	Pass
CA	120,000 miles	California LEV-II LEV	NOX	0.0280	--	--	--	0.01	--	0.038	0.070	Pass

NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.

Certification Summary Information Report

Test Group	EBGTV08.0V16	Evaporative/Refueling Family	EBGTR0230V16
Test #	ABGT10008319	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	N/A	Test Fuel Type	27 - Cold CO Premium (Tier 2)
Test Date	11/26/2009	Fuel	Gasoline
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Volkswagen AG, Dept EASZ/1		

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
Bag 1 Fuel Economy	8	--
Bag 2 Fuel Economy	8.3	--
Bag 3 Fuel Economy	11.1	--
Carbon Monoxide	0.836	--
Formaldehyde	0.0178	--
Manufacturer Fuel Economy	8.9	--
Nitrogen Oxide	0.057	--
Non-methane Hydrocarbon	0.444	--
Non-methane organic gas (California)	0.4618	--
Total Hydrocarbon	0.471	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	999	--

Manufacturer Test Comments

4k Cold-CO - Tested as BUGATTI Veyron Super Sport Sedan 2 dr. EDV - ETW: 4750, EPA FE Calc Rel8

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 5	CO	0.84	--	--	--	0.1	--	0.9	10.0	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	HC-NM	0.44	--	--	--	0.012	--	0.5	1.5	Pass
CA	50,000 miles	California LEV-II LEV	CO	0.84	--	--	--	0.1	--	0.9	10.0	Pass

Certification Summary Information Report

Test Group	EBGTV08.0V16	Evaporative/Refueling Family	EBGTR0230V16
Test #	ABGT10008321	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	12/16/2009	Fuel	Gasoline
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Volkswagen AG, Dept EASZ/1		

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
Bag 1 Fuel Economy	9	--
Bag 2 Fuel Economy	8.7	--
Bag 3 Fuel Economy	11.8	--
Carbon Monoxide	0.34	--
Formaldehyde	0.004	--
Manufacturer Fuel Economy	9.4	--
Nitrogen Oxide	0.0348	--
Non-methane Hydrocarbon	0.1011	--
Non-methane organic gas (California)	0.1051	--
Total Hydrocarbon	0.1156	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	938	--

Manufacturer Test Comments

4k FED. FUEL 50F FTP - Tested as BUGATTI Veyron Super Sport Sedan 2 dr. EDV - ETW: 4750

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 LEV	CO	0.340	--	--	--	--	--	0.34	3.40	Pass
CA	4,000 miles	California LEV-II LEV	HCHO	0.00400	--	--	--	--	--	0.0040	0.0300	Pass
CA	4,000 miles	California LEV-II LEV	NMOG	0.10510	--	1.04	--	--	--	0.1051	0.1500	Pass
CA	4,000 miles	California LEV-II LEV	NOX	0.0348	--	--	--	--	--	0.035	0.050	Pass

Certification Summary Information Report

Test Group	EBGTV08.0V16	Evaporative/Refueling Family	EBGTR0230V16
Test #	ABGT10008318	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	N/A	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	11/25/2009	Fuel	Gasoline
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Volkswagen AG, Dept EASZ/1		

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
CH4 - Methane	0.0064	--
Carbon Monoxide	0.076	--
Formaldehyde	0.0004	--
Manufacturer Fuel Economy	17.9	17.9
Nitrogen Oxide	0.0133	--
Nitrous Oxide	0.01	--
Non-methane Hydrocarbon	0.0104	--
Non-methane organic gas (California)	0.0108	--
Total Hydrocarbon	0.0171	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	495	495
Optional Carbon-Related Exhaust Emissions	498	498

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	495	495

Manufacturer Test Comments

4k HWFET - Tested as BUGATTI Veyron Super Sport Sedan 2 dr. EDV - ETW: 4750

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 5	NOX	0.0133	--	--	--	0.00	--	0.013	0.070	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	CREE	495	--	--	--	0.00	--	495	--	--
Fed	120,000 miles	Federal Tier 2 Bin 5	NOX	0.0133	--	--	--	0.01	--	0.023	0.090	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	OPT-CREE	498	--	--	--	0.00	--	498	--	--
CA	50,000 miles	California LEV-II LEV	NOX	0.0133	--	--	--	0.00	--	0.013	0.070	Pass
CA	120,000 miles	California LEV-II LEV	NOX	0.0133	--	--	--	0.01	--	0.023	0.090	Pass

NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.

Certification Summary Information Report

Test Group	EBGTV08.0V16	Evaporative/Refueling Family	EBGTR0230V16
Test #	ABGT10008317	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	N/A	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	11/25/2009	Fuel	Gasoline
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Volkswagen AG, Dept EASZ/1		

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
Bag 1 Fuel Economy	9.1	--
Bag 2 Fuel Economy	16.4	--
Carbon Monoxide	0.381	--
Formaldehyde	0.0022	--
Manufacturer Fuel Economy	13.9	--
Nitrogen Oxide	0.015	--
Non-methane Hydrocarbon	0.0562	--
Non-methane organic gas (California)	0.0584	--
SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	0.0712	--
Total Hydrocarbon	0.071	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	636	--

Manufacturer Test Comments

4k US06 - Tested as BUGATTI Veyron Super Sport Sedan 2 dr. EDV - ETW: 4750, EPA FE Calc Rel8

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 5	CO	0.381	--	--	--	--	--	0.38	8.00	Pass
Fed	4,000 miles	Federal Tier 2 Bin 5	HC-NM+NOX	0.0712	--	--	--	--	--	0.071	0.140	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	CO	0.381	--	--	--	0.3	--	0.68	11.10	Pass
CA	4,000 miles	California LEV-II LEV	CO	0.381	--	--	--	--	--	0.38	8.00	Pass
CA	4,000 miles	California LEV-II LEV	HC-NM+NOX	0.0712	--	--	--	--	--	0.071	0.140	Pass

Certification Summary Information Report

Test Group	EBGTV08.0V16	Evaporative/Refueling Family	EBGTR0230V16
Test #	ABGT10008320	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	N/A	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	11/27/2009	Fuel	Gasoline
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Volkswagen AG, Dept EASZ/1		

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
Carbon Monoxide	0.181	--
Formaldehyde	0.001	--
Manufacturer Fuel Economy	9.8	--
Nitrogen Oxide	0.004	--
Non-methane Hydrocarbon	0.024	--
Non-methane organic gas (California)	0.025	--
SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	0.028	--
Total Hydrocarbon	0.0338	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	903	--

Manufacturer Test Comments

4k SC03 - Tested as BUGATTI Veyron Super Sport Sedan 2 dr. EDV - ETW: 4750, EPA FE Calc Rel8

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 5	CO	0.181	--	--	--	--	--	0.18	2.70	Pass
Fed	4,000 miles	Federal Tier 2 Bin 5	HC-NM+NOX	0.0280	--	--	--	--	--	0.028	0.200	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	CO	0.181	--	--	--	0.3	--	0.48	3.70	Pass
CA	4,000 miles	California LEV-II LEV	CO	0.181	--	--	--	--	--	0.18	2.70	Pass
CA	4,000 miles	California LEV-II LEV	HC-NM+NOX	0.0280	--	--	--	--	--	0.028	0.200	Pass

Certification Summary Information Report

Test Group		EBGTV08.0V16			Evaporative/Refueling Family			EBGTR0230V16		
Consolidated List of Standards										
Exhaust Standards										
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both		
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-II LEV		
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		Federal			Cert/In-Use Code			Both		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 2 Bin 5		
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	
50,000 miles	CO	--	--	--	--	--	--	0.1	3.40	
50,000 miles	HCHO	--	--	--	--	--	--	0.0001	0.0150	
50,000 miles	NMOG	--	1	1.04	--	--	--	0.005	0.0750	
50,000 miles	NOX	--	--	--	--	--	--	0.00	0.050	
50,000 miles	PM	--	--	--	--	--	--	0.00	10.0	
120,000 miles	CO	--	--	--	--	--	--	0.3	4.20	
120,000 miles	CREE	--	--	--	--	--	--	0.00	999.9999	
120,000 miles	HC-NM+NOX-COMP	--	--	--	--	--	--	--	0.650	
120,000 miles	HCHO	--	--	--	--	--	--	0.0003	0.0180	
120,000 miles	METHANE	--	--	--	--	--	--	0.012	999.9999	
120,000 miles	N2O	--	--	--	--	--	--	--	0.010	
120,000 miles	NMOG	--	1	1.04	--	--	--	0.012	0.0900	
120,000 miles	NOX	--	--	--	--	--	--	0.01	0.070	
120,000 miles	OPT-CREE	--	--	--	--	--	--	0.00	999.9999	
120,000 miles	PM	--	--	--	--	--	--	0.00	0.010	

Certification Summary Information Report

Test Group	EBGTV08.0V16		Evaporative/Refueling Family				EBGTR0230V16			
Cert Region	California + CAA Section 177 states				Cert/In-Use Code		Both			
Vehicle Class	LDV/Passenger Car				Standard Level		California LEV-II LEV			
Fuel	Gasoline				Test Procedure		Fed. fuel 50 F exh.			
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	--	--	--	--	--	--	--	3.40	
4,000 miles	HCHO	--	--	--	--	--	--	--	0.0300	
4,000 miles	NMOG	--	--	1.04	--	--	--	--	0.1500	
4,000 miles	NOX	--	--	--	--	--	--	--	0.050	

Cert Region	Federal				Cert/In-Use Code		Both			
Vehicle Class	LDV/Passenger Car				Standard Level		Federal Tier 2 Bin 5			
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	
50,000 miles	NOX	--	--	--	--	--	--	0.00	0.070	
120,000 miles	CREE	--	--	--	--	--	--	0.00	999.9999	
120,000 miles	NOX	--	--	--	--	--	--	0.01	0.090	
120,000 miles	OPT-CREE	--	--	--	--	--	--	0.00	999.9999	

Cert Region	California + CAA Section 177 states				Cert/In-Use Code		Both			
Vehicle Class	LDV/Passenger Car				Standard Level		California LEV-II LEV			
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	
50,000 miles	CO	--	--	--	--	--	--	0.1	3.40	
50,000 miles	HCHO	--	--	--	--	--	--	0.0001	0.0150	
50,000 miles	NMOG	--	1	1.04	--	--	--	0.005	0.0750	
50,000 miles	NOX	--	--	--	--	--	--	0.00	0.050	
120,000 miles	CO	--	--	--	--	--	--	0.3	4.20	
120,000 miles	HCHO	--	--	--	--	--	--	0.0003	0.0180	
120,000 miles	NMOG	--	1	1.04	--	--	--	0.012	0.0900	
120,000 miles	NOX	--	--	--	--	--	--	0.01	0.070	

Certification Summary Information Report

Test Group		EBGTV08.0V16			Evaporative/Refueling Family			EBGTR0230V16		
Cert Region		Federal			Cert/In-Use Code			Both		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 2 Bin 5		
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	--	--	--	--	--	--	0.3	3.70	
Cert Region		Federal			Cert/In-Use Code			Both		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 2 Bin 5		
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	--	--	--	--	--	--	0.3	11.10	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both		
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-II LEV		
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	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both		
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-II LEV		
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	
50,000 miles	NOX	--	--	--	--	--	--	0.00	0.070	
120,000 miles	NOX	--	--	--	--	--	--	0.01	0.090	

Certification Summary Information Report

Test Group		EBGTV08.0V16			Evaporative/Refueling Family			EBGTR0230V16		
Cert Region		Federal			Cert/In-Use Code			Both		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 2 Bin 5		
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	--	--	--	--	--	--	0.1	10.0	
120,000 miles	HC-NM	--	--	--	--	--	--	0.012	1.5	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both		
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-II LEV		
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	--	--	--	--	--	--	0.1	10.0	
Evaporative/Refueling Standards										
Evaporative/Refueling Family		EBGTR0230V16			Cert Region			California + CAA Section 177 states		
Cert/In-Use Code		Both			Standard Level			California LEV-II Evap		
Test Procedure		Federal fuel 3-day evap								
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF					
Gasoline	150,000 miles	HC-TOTAL	--	0.500	0.006					
Evaporative/Refueling Family		EBGTR0230V16			Cert Region			California + CAA Section 177 states		
Cert/In-Use Code		Both			Standard Level			California LEV-II Evap		
Test Procedure		2-day evap								
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF					
Gasoline	150,000 miles	HC-TOTAL	--	0.650	0.006					
Evaporative/Refueling Family		EBGTR0230V16			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	0.005					

Certification Summary Information Report

Test Group	EBGTV08.0V16		Evaporative/Refueling Family	EBGTR0230V16	
Evaporative/Refueling Family	EBGTR0230V16		Cert Region	California + CAA Section 177 states	
Cert/In-Use Code	Both		Standard Level	California LEV-II 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
Evaporative/Refueling Family	EBGTR0230V16		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
Evaporative/Refueling Family	EBGTR0230V16		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	0.005
Evaporative/Refueling Family	EBGTR0230V16		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
Evaporative/Refueling Family	EBGTR0230V16		Cert Region	California + CAA Section 177 states	
Cert/In-Use Code	Both		Standard Level	California LEV-II 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

Certification Summary Information Report

Test Group	EBGTV08.0V16	Evaporative/Refueling Family	EBGTR0230V16
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	FE BAG 3	Bag 3 Fuel Economy
CO	Carbon Monoxide	FE BAG 4	Bag 4 Fuel Economy
CO2	Carbon dioxide	MFR FE	Manufacturer Fuel Economy
CREE	Carbon-Related Exhaust Emissions	HC	Hydrocarbon for Running Loss and ORVR
OPT-CREE	Optional Carbon-Related Exhaust Emissions	METHANE	CH4 - Methane
NOX	Nitrogen Oxide	METHANOL	CH3OH - Methanol
PM	Particulate Matter	N2O	Nitrous Oxide
PM-COMP	SFTP Composite Particulate Matter	SPITBACK	Spitback Hydrocarbon in grams
HC-NM	Non-methane Hydrocarbon	AMP-HRS	Integrated Amp-hours
OMHCE	Organic material Hydrocarbon Equivalent	START-SOC	System Start State of Charge Watt-hours
OMNMHCE	Organic material non-methane HC equivalent	END-SOC	System End State of Charge Watt-hours
NMOG	Non-methane organic gas (California)	ACT-DISTANCE	Actual Distance Driven (miles)
HCHO	Formaldehyde	AS-VOLT	Average System Voltage
H3C2HO	Acetaldehyde	CO2 BAG 1	Bag 1 Carbon Dioxide
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	CO2 BAG 2	Bag 2 Carbon Dioxide
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	CO2 BAG 3	Bag 3 Carbon Dioxide
CO-COMP	SFTP Composite Carbon Monoxide	CO2 BAG 4	Bag 4 Carbon Dioxide
ETHANOL	C2H5OH - Ethanol	NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides
FE BAG 1	Bag 1 Fuel Economy	NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides
FE BAG 2	Bag 2 Fuel Economy		
Certification Region			
CA	California + CAA Section 177 states	FA	Federal
Exhaust Emission Standard Level			
B1	Federal Tier 2 Bin 1	L2SULEV30	California LEV-II SULEV30
B2	Federal Tier 2 Bin 2	L2LEV395	California LEV-II LEV395
B3	Federal Tier 2 Bin 3	L2ULEV340	California LEV-II ULEV340
B4	Federal Tier 2 Bin 4	L2LEV630	California LEV-II LEV630
B5	Federal Tier 2 Bin 5	L2ULEV570	California LEV-II ULEV570
B6	Federal Tier 2 Bin 6	L3LEV160	California LEV-III LEV160
B7	Federal Tier 2 Bin 7	L3ULEV125	California LEV-III ULEV125
B8	Federal Tier 2 Bin 8	L3ULEV70	California LEV-III ULEV70
B9	Federal Tier 2 Bin 9	L3ULEV50	California LEV-III ULEV50
B10	Federal Tier 2 Bin 10	L3SULEV30	California LEV-III SULEV30

Certification Summary Information Report

Test Group	EBGTV08.0V16	Evaporative/Refueling Family	EBGTR0230V16
B11	Federal Tier 2 Bin 11	L3SULEV20	California LEV-III SULEV20
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)	L3LEV395	California LEV-III LEV395
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)	L3ULEV340	California LEV-III ULEV340
L2	California LEV-II LEV	L3ULEV250	California LEV-III ULEV250
L2OP	California LEV-II LEV Optional	L3ULEV200	California LEV-III ULEV200
U2	California LEV-II ULEV	L3SULEV170	California LEV-III SULEV170
S2	California LEV-II SULEV	L3SULEV150	California LEV-III SULEV150
ZEV	California ZEV	L3LEV630	California LEV-III LEV630
OT	Other	L3ULEV570	California LEV-III ULEV570
T1	Federal Tier 1	L3ULEV400	California LEV-III ULEV400
PZEV	California PZEV	L3ULEV270	California LEV-III ULEV270
L2LEV160	California LEV-II LEV160	L3SULEV230	California LEV-III SULEV230
L2ULEV125	California LEV-II ULEV125	L3SULEV200	California LEV-III SULEV200
Transmission Type Code			
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual
A	Automatic	OT	Other
AM	Automated Manual	SA	Semi-Automatic
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)
Drive System Code			
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
Part 1/Test Group		EBGTV08.0V16	all		11-11-2013

8. Emission Testing Waiver Statements

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

- High Altitude Exhaust Emissions
- High Altitude EVAP/Refueling Emissions
- Spitback
- Particulate Matter
- Certification Short Test
- HCHO Compliance
- OBD Compliance
- Leak Free Exhaust System
- N20 Compliance

Section 9	Pg. 1	OBD System Description	Engine Code	R.CH-No.:	Revision Date
Part 1/Test Group		EBGTV08.0V16	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.

Section 11 Pg. 3	AECD Description	Engine Code	R.CH-No.:	Revision Date
Part 1/Test Group	EBGTV08.0V16	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
Part 1/Test Group	EBGTV08.0V16	all		

List of Certified Vehicles

Dur. Group	EBGTGPGNNV16
Test Group	EBGTV08.0V16
Evap Family	EBGTR0230V16
Emission Control System:	SFI/AIR/4WU-TWC/2TWC/4TC/2CAC 4HO2S(2)/ORVR

Engine Displacement:	8.0 liter
Valves / Cylinder:	4
Sales Area:	50 States
MMS ¹⁾:	Two ME 9.x
SIL:	n.a.

Carline / Engine Code	Model	Engine Code Characteristic				HP @RPM	Torque @RPM	Trans. / OD	ETW	Curb Weight [lbs]	Fuel Tank Capacity [l]	Canister working capacity [g]	Tire size Rear/ Front	N/V Ratio	TCDT [sec.]
		Cat. Code	Compression ratio	Idle [rpm]	TC Index										
Veyron / CBXA	Bugatti Veyron	REX 1365 M20	9.0 ± 0.3	840± 40	na	1001 @6000	1250 Nm @2200 to 5500	L7	4750	4512	97	230	365-710 ZR540A	24.85	16.12
Veyron / CBXA	Bugatti Grand Sport	REX 1365 M20	9.0 ± 0.3	840± 40	na	1001 @6000	1250 Nm @2200 to 5500	L7	4750	4387	97	230	365-710 ZR540A 265-680 ZR500A	24.85	16.12
Veyron / CBLA	Bugatti Super Sport	TEX 0130 M	9.0 ± 0.3	840± 40	na	1200 @6400	1500 Nm @3000 to 5000	L7	4750	4513	97	230	365-710 ZR540A 265-680 ZR500A	24.85	16.12

* Use J1930 Abbreviations

1) - Motor management system

Section 12	Pg. 2	Vehicles Covered by Certificate	Engine Code	R.CH-No.:	Revision Date
Part 1/Test Group	EBGTV08.0V16		all		

Transmission Code	Transmission Code Characteristic												
	Basic drivetrain layout	Transmission Type / OD #	Lock-Up rpm		Gearbox Ratios								
			Gear	min/max	Axle	Gear 1	Gear 2	Gear 3	Gear 4	Gear 5	Gear 6	Gear 7	N/V Ratio
AD71C001	4WD	L7	3/4/ 5/6/7	1100-6000	2.585	3.176	2.263	1.667	1.290	1.057	0.878	0.795	24.85

Tire Size: **Rear:** 365-710ZR540A

Front:265-680ZR500A

Section 13 Pg. 1		Engine Code	R.CH-No.:	Revision Date
Part 1/Test Group	EBGTV08.0V16	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
Part 1/Test Group	EBGTV08.0V16	all		

14. Request for Certificate

14.01.00.00 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 Volkswagen Group 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
Part 1/Test Group	EBGTV08.0V16	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.

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 Title
EEO Department
248-754-4204 Phone
248-754-4207 Fax
leonard.kata@vw.com E-Mail

April 16, 2013 Date

Subject: MY 2014 Audi Light Duty Vehicle Initial Application for Emissions Certification for Test Group EAD XV04.03UJ with Evaporative Families: EADXR0130D61, EADXR0155D4B, EADXR0155D4A, EADXR0140C7A.

Dear Mr. Snyder,

We submit, with this letter, the model year 2014 Part 1 Application for Emissions Certification for the following Test Group:

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

<u>Test Group</u>	<u>Standards</u>	<u>Sales Area</u>
EAD XV04.03UJ	Tier 2 BIN 5 LEV-II ULEV	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 or (248) 754-4219.

Sincerely,



Leonard W. Kata
Volkswagen Group of America, Inc.

Engineering and Environmental Office

Enclosure(s)

Section 15	Pg. 2	Other Information	Engine Code	R.CH-No.:	Revision Date
Part 1/Test Group		EBGTV08.0V16	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: EBGTR0230V16

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

DBGTR0230V16

- 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) None

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

Bugatti 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

b) U. S. DOT ODI Number: None



U.S. Environmental Protection Agency
Motor Vehicle and Engine Compliance Program
On-Highway Fee Filing Form

For Certification Applications Received In Calendar Year 2013

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 (\$29,848)
- HDV EVAP-ONLY (\$563)
- LDV/LDT/MDPV/HDV (Chassis cert) CAL-ONLY (\$15,704)
- HDE CALIF-ONLY (\$563)
- HDE (Engine Dyno cert) FEDERAL (\$44,215)
- MOTORCYCLE (\$1,427)
- LD/MDPV/HDV ICI (\$68,737)

EPA standard family or test group:

E	B	G	T	V	0	8	.	0	V	1	6
---	---	---	---	---	---	---	---	---	---	---	---

Amount paid (U.S. Funds Only): \$ 29,848.00

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

Reduced Fee Section (40 CFR §1027.120)

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

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

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

Company Representative: Richard E. Thomas Signature:

Title: Emission Cert Stratagist Phone/Fax: 248 754 4213 / 248 754 4207 Date: 04/08/2013

E-mail Address: _____

Submission of payments and forms:

- (1) Online: Forms may be found and submitted with or without payments online at www.Pay.gov.
- (2) By mail: For check payments only, 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 Wire payments to the New York Federal Reserve Bank. (See Instructions, p.2)
 - (4) Transmit offline 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.

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

April 16, 2013 Date

Subject: 2014 Model Year Bugatti Light Duty Vehicles Initial Application for Emissions Certification -Test Group EBGTV08.0V16 and Evaporative Family EBGTR0230V16

Dear Ms. Hebert,

We submit, with this letter, the model year 2014 Bugatti Part 1 Application for Emissions Certification for the following Test Group:

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

<u>Test Group</u>	<u>Standards</u>	<u>Sales Area</u>
EBGTV08.0V16	Tier 2 BIN 5 LEV-II LEV	Federal California

The EPA Certificate of Conformity for the test group is pending and will be uploaded to 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) 754-4219.

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
Part 1/Test Group	EBGTV08.0V16	all		

17.0 **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

17.02. **Fill Pipe Specifications**

Please refer to common section.

17.03 **Evaporative Emission Deterioration Program**

Please refer to common section.

Bugatti 7/70 Emissions Control Defects Warranty Components - Model Year 2014
California, Massachusetts, Vermont and Maine

Test Group: 8BGTV8.0V16

Bugatti Veyron 16.4 (50-State/Canada LEVII LEV / Tier 2 BIN5)

Labor Rate (€) France

200,00

<u>Description</u>	<u>Bemerkung</u>	<u>Part Cost (€)</u>	<u>Labor Cost (€)</u>	<u>Total Cost (€)</u>
Air Induction System				
Intake manifold	Sammler B1 07E 133 262 x	3.765,87	1.600,00	5.365,87
[Ansaugrohr]	Sammler B2 07E 133 263 x	3.472,98	1.600,00	5.072,98
	Unterteil 07E 133 204 x	1.791,03	1.600,00	3.391,03
Turbocharger (TC) (including wastegate)	Bank 1 07E.145.721.x	5.640,00	8.000,00	13.640,00
	07E.145.873.x	5.640,00		
	Bank 2 07E.145.722.x	5.640,00	8.000,00	13.640,00
	07E.145.874.x	5.640,00		
Turbocharger wastegate solenoid (4)	06A.906.283.x		Incl.	
Dump valve solenoid			Incl.	
Charge Air Cooler (CAC)	Bank 1 07E.145.903.x	7.917,43	1.800,00	9.717,43
	Bank 2 07E.145.904.x	7.917,43	1.800,00	9.717,43
	Beide Bänke	15.834,86	2.000,00	17.834,86
Camshaft Adjuster Unit	Intake - B1 07E.109.088	693,00	19.200,00	19.893,00
	Exhaust - B1 07E.109.088.x	742,50	19.200,00	19.942,50
	Intake - B2 07E.109.087	693,00	19.200,00	19.893,00
	Exhaust - B2 07E.109.087.x	742,50	19.200,00	19.942,50
Camshaft timing adjuster assembly	Bank 1 07E.109.210	869,00	19.200,00	20.069,00
Hier: Steuergehäuse (ohne Steller)	Bank 2 07E.109.204	869,00	19.200,00	20.069,00
Camshaft timing adjuster solenoid	Inlet		Incl. Ass. 210 / 204	
	Exhaust		Incl. Ass. 210 / 204	

Bugatti 7/70 Emissions Control Defects Warranty Components - Model Year 2014
California, Massachusetts, Vermont and Maine

Test Group: 8BGTV8.0V16
 Labor Rate (€) France

Bugatti Veyron 16.4 (50-State/Canada LEVII LEV / Tier 2 BIN5)
 200,00

<u>Description</u>	<u>Bemerkung</u>	<u>Part Cost</u> (€)	<u>Labor Cost (€)</u>	<u>Total Cost (€)</u>
Fuel Metering System				
Air flow devices or sensors				
- altitude sensor (part of ECU)	Tankfüllstandsgeber	550,00	1.600,00	2.150,00
- air flow meter - (MAF)	HFM 07C.906.461	176,61	1.600,00	1.776,61
- boost pressure sensor (4) Saugrohr & LLK	038.906.051.x	16,50	1.600,00	1.616,50
Engine position sensors				
- camshaft position sensor - (CMP) (4)	Eine Bank 06A.905.161.x	7,92	5.200,00	5.207,92
	Beide Bänke	15,84	6.400,00	6.407,92
Fuel system				
- fuel distribution rail	Bank 1 07E.133.318.x	1.106,64	5.200,00	6.306,64
	Bank 2 07E.133.317.x	1.160,64	5.200,00	6.360,64
	beide Bänke	2.267,28	6.400,00	8.667,28

Bugatti 7/70 Emissions Control Defects Warranty Components - Model Year 2014
California, Massachusetts, Vermont and Maine

Test Group: 8BGTV8.0V16

Bugatti Veyron 16.4 (50-State/Canada LEVII LEV / Tier 2 BIN5)

Labor Rate (€) France

200,00

<u>Description</u>	<u>Bemerkung</u>	<u>Part Cost (€)</u>	<u>Labor Cost (€)</u>	<u>Total Cost (€)</u>
Throttle body assembly & housing				
- throttle body	07E.133.062	256,66	1.600,00	1.856,66
Ignition System				
Ionic-current-sensor	07E.905.367.x	3.320,96	1.600,00	4.920,96
Ionic-current-sensor	07E.905.367.x	3.320,96	1.600,00	4.920,96
Fuel Evaporative Control (EVAP) System				
Fuel tank (including filler pipe, restrictor, anti-spit back valve and grade valves, expansion reservoir)	5B0.201 062.x	17.904,00	20.000,00	37.904,00
Fuel Pump (1)	Left main 5B0.906.059.x	1.537,80	1.200,00	2.737,80
Fuel Pump (1)	Right main dto.	1.537,80	1.200,00	2.737,80
Secondary Air Injection System - (AIR)				
Secondary air injection pump (2)	022.959.253.x	315,00	1.600,00	1.915,00
Exhaust System				
Exhaust manifold	Bank 1 07E.253.388.A / 390.x	1.819,02	19.200,00	21.019,02
	Bank 2 07E.253.387.A / 389.x	1.819,02	19.200,00	21.019,02
Catalytic converter - WU-TWC and TWC	5B0.254.300.x / 350.x	5.870,13	1.600,00	7.470,13
	5B0.254.350.x	5.870,13	1.600,00	7.470,13
	Vorrohr beide Bänke	11.740,26	3.200,00	14.940,26

Bugatti 7/70 Emissions Control Defects Warranty Components - Model Year 2014
California, Massachusetts, Vermont and Maine

Test Group: 8BGTV8.0V16

Bugatti Veyron 16.4 (50-State/Canada LEVII LEV / Tier 2 BIN5)

Labor Rate (€) France

200,00

<u>Description</u>	<u>Bemerkung</u>	<u>Part Cost (€)</u>	<u>Labor Cost (€)</u>	<u>Total Cost (€)</u>
Exhaust System continued				
exhaust pipe	'Abgastonne' 5B0.253.355	11.208,60	3.200,00	14.408,60
Engine Emissions Control System Sensors (modules, sensors, solenoids, valves)				
Power train control module (engine)	Motorsteuergerät 5B0.906.012 / 012.x	489,48	600,00	1.089,48
Power train control module (transmission)	Getriebesteuergerät 01C.927.156.x	7.715,25	1.200,00	8.915,25
Heated oxygen sensors (pre catalyst)	Eine Bank 07D.906.262.x / 022.906.262.xx	132,00	3.200,00	3.332,00
	beide Bänke (je 2x)	264,00	6.400,00	6.664,00
Heated oxygen sensors (post catalyst)	Eine Bank 07E.906.262 / 06F.906.262.x	66,00	3.200,00	3.266,00
	beide Bänke	132,00	6.400,00	6.532,00
Exhaust Gas Temperature Sensor (4x)	07E.919.529 / 529 x	203,40	4.000,00	4.203,40

Bugatti 7/70 Emissions Control Defects Warranty Components - Model Year 2014
California, Massachusetts, Vermont and Maine

Test Group: 8BGTV8.0V16
 Labor Rate (€) France

Bugatti Veyron 16.4 (50-State/Canada LEVII LEV / Tier 2 BIN5)
 200,00

<u>Description</u>	<u>Bemerkung</u>	<u>Part Cost (€)</u>	<u>Labor Cost (€)</u>	<u>Total Cost (€)</u>
On Board Diagnostics -(OBD)				
MIL - Instrument Panel	5B0.920.900.x	3.150,40	1.200,00	4.350,40
OBD system	Check System	-	3.200,00	3.200,00

Section 17 Pg. 2	California ARB Information	Engine Code	R.CH-No.:	Revision Date
Part 1/Test Group	EBGTV08.0V16	all		

17.04 I/M Test Data

I/M Test Data (V.I.D. BAX-US100 /10)

Date	System Miles	HIGH RPM TEST				IDLE RPM TEST			
		Oil Temp	actual RPM	HC C6H14	CO	Oil Temp	actual RPM	HC C6H14	CO
		of	1/ min	ppm	%by vol.	of	1/ min	ppm	%by vol.
11-25-09	2052	206	2,500	0	0.0	210	840	0	0.0
Standards:					220	1.2	100 1.0		

Section 17 Pg. 3	California ARB Information	Engine Code	R.CH-No.:	Revision Date
Part 1/Test Group	EBGTV08.0V16	all		

17.06. Evaporative Emission Deterioration Program

Bench Test Logs (EBGTR0230V16)

Test procedure according to CARB Component Bench Test Requirements for Evaporative Emission Control Systems (CARB Mail-Out #93-23).

Volkswagen AG Component Bench Test with CARB approval letter, dated July 14, 1994.

Test results after 4,000 miles:

EVAP Comp. Set	Running Loss	Hot Soak plus 24-hr diurnal highest
	g/mi	g/test
1	0.001	0.167
2	0.000	0.095
3	0.001	0.075
average	0.001	0.112

Test results after 150,000 miles:

EVAP Comp. Set	Running Loss	Hot Soak plus 24-hr diurnal highest
	g/mi	g/test
1	0.001	0.164
2	0.001	0.108
3	0.000	0.102
average	0.001	0.125

Deterioration factors bench testing:

	Running Loss	Hot Soak plus 24-hr diurnal highest
150k mi	0.001	0.125
- 4k mi	0.001	0.112
Result:	0.000	0.013
120 k mi	DF_BT \mathbf{RL} = 0.000	DF_BT \mathbf{HSDI} = 0.010
150 k mi	DF_BT \mathbf{RL} = 0.000	DF_BT \mathbf{HSDI} = 0.013

Section 17 Pg. 4	California ARB Information	Engine Code	R.CH-No.:	Revision Date
Part 1/Test Group	EBGTV08.0V16	all		12-21-2010

17.06. Evaporative Emission Deterioration Program (continued)

Bench Test Logs ORVR (EBGTR0230V16)

Test procedure according to CARB Component Bench Test Requirements for Evaporative Emission Control Systems (CARB Mail-Out #93-23).

Volkswagen AG Component Bench Test with CARB approval letter, dated May 8,1997.

Test results after 4,000 miles:

ORVR Comp. Set	Refueling Emissions
	g HC/gal
1	0.008
2	0.006
3	0.008
average	0.007

Test results after 150,000 miles:

ORVR Comp. Set	Refueling Emissions
	g HC/gal
1	0.007
2	0.001
3	0.013
average	0.007

Deterioration factors bench testing:

	Refueling Emissions g HC/gal
150k mi - 4k mi	0.007
Result:	0.000
120 k mi	DF_BT ORVR .0.000
150 k mi	DF_BT ORVR .0.000

Section 17 Pg. 5	California ARB Information	Engine Code	R.CH-No.:	Revision Date
Part 1/Test Group	EBGTV08.0V16	all		

17.06. Evaporative Emission Deterioration Program (continued)

Deterioration Factor Calculation Summary (EBGTR0230V16)

Deterioration Factor Mileage Accumulation (DF_MA)

Vehicle I.D.: not applicable therefore DF_MA=0.000 for further calculation

Interpolated values:

	Running Loss	Hot Soak plus 24-hr diurnal highest (2 days VT-SHED)	Hot Soak plus 24-hr diurnal highest (3 days VT-SHED)
miles	g/mi	g/test	g/test
4000	-	-	-
120000	-	-	-
150000	-	-	-

Deterioration factors mileage accumulation:

	Running Loss	Hot Soak plus 24-hr diurnal highest (2 days)	Hot Soak plus 24-hr diurnal highest (3 days)
120k mi	-	-	-
- 4k mi	-	-	-
Result:	-	-	-
DF 120k mi	DF_MARL = 0.000	DF_MAHSDI(2) = 0.000	DF_MAHSDI(3) = 0.000
150k mi	-	-	-
- 4k mi	-	-	-
Result:	-	-	-
DF 150k mi	DF_MARL = 0.000	DF_MAHSDI(2) = 0.000	DF_MAHSDI(3) = 0.000

Section 17 Pg. 6	California ARB Information	Engine Code	R.CH-No.:	Revision Date
Part 1/Test Group	EBGTV08.0V16	all		

17.06. Evaporative Emission Deterioration Program (continued)

Deterioration Factor Calculation Summary (EBGTR0230V16)

Total Evaporative Deterioration Factor for 120k mi

**Deterioration Factor
Running Loss:**

$$\begin{aligned} DF_{RL} &= 0.5 \times (DF_{BTRL} + DF_{MARL}) \\ &= 0.5 \times (0.000 + 0.000) \\ &= 0.0000 \end{aligned}$$

120k mi $DF_{RL} = 0.000$

**Deterioration Factor
Hot Soak plus 24-hr diurnal highest (2 days VT-SHED):**

$$\begin{aligned} DF_{HSDI(2)} &= 0.5 \times (DF_{BTHSDI} + DF_{MAHSDI(2)}) \\ &= 0.5 \times (0.010 + 0.000) \\ &= 0.0050 \end{aligned}$$

120k mi $DF_{HSDI(2)} = 0.005$

**Deterioration Factor
Hot Soak plus 24-hr diurnal highest (3 days VT-SHED):**

$$\begin{aligned} DF_{HSDI(3)} &= 0.5 \times (DF_{BTHSDI} + DF_{MAHSDI(3)}) \\ &= 0.5 \times (0.010 + 0.000) \\ &= 0.0050 \end{aligned}$$

120k mi $DF_{HSDI(3)} = 0.005$

**Deterioration Factor
ORVR: (DF_MAVORVR = n.a. and therefore =0.000)**

$$\begin{aligned} DF_{ORVR} &= 0.5 \times (DF_{BTORVR} + DF_{MAORVR}) \\ &= 0.5 \times (0.000 + 0.000) \\ &= 0.0000 \end{aligned}$$

120k mi $DF_{ORVR} = 0.000$

Section 17 Pg. 7	California ARB Information	Engine Code	R.CH-No.:	Revision Date
Part 1/Test Group	EBGTV08.0V16	all		

17.06. Evaporative Emission Deterioration Program (continued)

Deterioration Factor Calculation Summary (EBGTR0230V16)

Total Evaporative Deterioration Factor for 150k mi

**Deterioration Factor
Running Loss:**

$$\begin{aligned} DF_{RL} &= 0.5 \times (DF_{BTRL} + DF_{MARL}) \\ &= 0.5 \times (0.000 + 0.000) \\ &= 0.0000 \end{aligned}$$

150k mi $DF_{RL} = 0.000$

**Deterioration Factor
Hot Soak plus 24-hr diurnal highest (2 days VT-SHED):**

$$\begin{aligned} DF_{HSDI(2)} &= 0.5 \times (DF_{BTHSDI} + DF_{MAHSDI(2)}) \\ &= 0.5 \times (0.013 + 0.000) \\ &= 0.0065 \end{aligned}$$

150k mi $DF_{HSDI(2)} = 0.006$

**Deterioration Factor
Hot Soak plus 24-hr diurnal highest (3 days VT-SHED):**

$$\begin{aligned} DF_{HSDI(3)} &= 0.5 \times (DF_{BTHSDI} + DF_{MAHSDI(3)}) \\ &= 0.5 \times (0.013 + 0.000) \\ &= 0.0065 \end{aligned}$$

150k mi $DF_{HSDI(3)} = 0.006$

**Deterioration Factor
ORVR: (DF_MAVORVR = n.a. and therefore =0.000)**

$$\begin{aligned} DF_{ORVR} &= 0.5 \times (DF_{BTORVR} + DF_{MAORVR}) \\ &= 0.5 \times (0.000 + 0.000) \\ &= 0.0000 \end{aligned}$$

150k mi $DF_{ORVR} = 0.000$

Section 17 Pg. 8	California ARB Information	Engine Code	R.CH-No.:	Revision Date
Part 1/Test Group	EBGTV08.0V16	all		

17.07. Assembly line NMOG/NMHC Factor

Factor is determined to NMOG/NMHC=1.04 by regulation. Compliance with HCHO standard is stated.

Section 17 Pg. 9	California ARB Information	Engine Code	R.CH-No.:	Revision Date
Part 1/Test Group	EBGTV08.0V16	all		

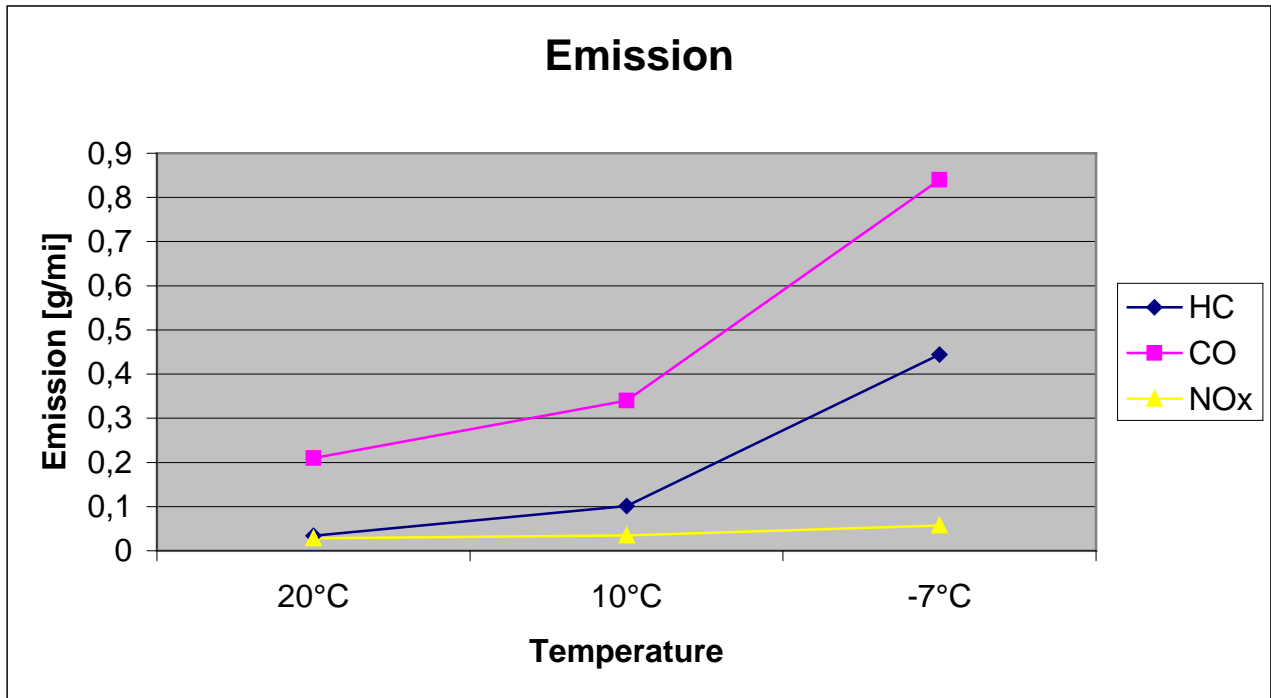
17.08 ASM / IM Compliance Statement

Certification Compliance with the Acceleration Simulation Mode (ASM) Loaded-Mode Inspection and Maintenance (I/M) Standards

Based on engineering evaluation and in accordance with MAC No. 99-05 Volkswagen and Audi state, that the vehicles covered by this engine family comply with the applicable ASM I/M standards for 2001 and later model-year passenger cars.

Section 17 Pg.10	California ARB Information	Engine Code	R.CH-No.:	Revision Date
Part 1/Test Group	EBGTV08.0V16	all		

17.09 Continuity of Emissions (FTP 75)



Section 17	Pg. 11	California ARB Information	Engine Code:	R.CH-No.:	Revision Date:
Part 1	Test Group: EBGTV08.0V16		all		

E.O.#
Page 1 of 2

**2014 AIR RESOURCES BOARD SUPPLEMENTAL CERTIFICATION SUMMARY SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDUM-DUTY VEHICLES**

Manufacturer: Bugatti Durability Group: EBGTGPGNNV16 Test Group: EBGTV08.0V16
 Evap Fam: 1) EBGTR0230V16 2) _____ 3) _____
 Evaporative Emission T.P.: CA _____ Fed. X R/L Test Proc: SHED _____ Pt Source X
 Zero-Evap NMOG Credit: Yes _____ No X
 Exh Std: CA Tier-1 _____ TLEV _____ LEV X ULEV _____ SULEV _____ ; US EPA: Tier 2 BIN 5
 DDV Basis: 100K _____ 120K X 150K _____ SFTP: Yes X No _____
 Veh Type: LEV1: PC X LDT1 _____ LDT2 _____ MDV1 _____ MDV2 _____ MDV3 _____ MDV4 _____
 LEV2: PC/LDT _____ 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) Tier 2
 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 _____ Bench X Other _____
 EDV Std Compliance: DF X Aged Parts _____ Other _____
 Exh ECS (use abbreviations per SAE J1930): ECS 1) SFI/AIR/4TC/2CAC/4WU-TWC/2TWC/4HO2S(2)
 ECS 2) _____
 EGR Type: n.a. AIR Type: electric pump
 Displ. (L): 8.0 Engine Configuration: 16 W / in line Valves per Cylinder: 4
 Rated HP: 1) 1001 @ 6000 RPM 2) 1200 @ 6400 RPM
 Engine: Front _____ Mid. _____ Rear X Drive: FWD _____ RWD _____ 4WD-FT X 4WD-PT _____
 All Eng Codes in Test Group: CA 49S 50S X
 NMOG Test Procedure: Std _____ Equip X 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 n.a.
 OBD2 Compliance: Full X Partial _____ Partial w/o fines _____
 Test Veh.: DDV (c/a EVAP DF) EDV (c/a EVAP,ORVR) DDV EDV
 MY ID MY ID MY ID MY ID
2006 Bench 2006 BAX-US100/06 - 2008 BAX-US100/08
 - 2010 BAX-US100/10

Evap Fam #)	ECS #)	Displ. (Liters)	Engine Code (also list CA/49ST/50ST)	Vehicle Make / Models	Trans. (M5, A4, etc.)
1	(HP: 1) 1	8.0	CBXA 50 ST	Bugatti Veyron	L7
1	1	8.0	CBXA 50 ST	Bugatti Grand Sport	L7
1	(HP: 2) 1	8.0	CBLA 50 ST	Bugatti Super Sport	L7

Date Issued: 04-08-2013

Revisions:

Section 17	Pg. 12	California ARB Information	Engine Code:	R.CH-No.:	Revision Date:
Part 1	Test Group:	EBGTV08.0V16	all		

2014 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: Bugatti Exhaust Engine Family: EBGTV08.0V16 Evaporative Family: EBGTR0230V16

P R O J E C T E D E M I S S I O N S

(grams/mile, except mg/mile for HCHO, grams/test D+HS, and grams/gallon for ORVR) (1), (2)

Data Veh ID(3) Test Ver.	Code (Displ)	Test Loc.	Trans	(Check One)		MPG City/Hwy	(Check One)			20°F	Hwy	City	E V A P O R A T I V E					
				X ETW	X RLHP		X NMOG	CO	NOx				HCHO	CO	PM	NOx	CO2	D+HS
BAX-US100/10 Ver.0	CBLA	Mfr.	L7	4,750	**	10.0/17.9 @ 120K	0.0403	0.31	0.028	***	0.9	-	0.013	885	-	-	-	-
BAX-US100/06 Ver.0	BNN	Mfr.	L7	4,750	**	- @ 150K	-	-	-	-	-	-	-	-	0.436	0.000	0.478	0.006

- (1) The EDV (s) above comply with standards of (@ 50K): 0.0750 3.40 0.050 15 10 n.a. 0.07 n.a. n.a. n.a. n.a. n.a.
(@ 120K for PC &LDT, 150K for EVAP, 120 for MDV): 0.0900 4.20 0.070 18 n.a. n.a. 0.09 n.a. 0.50 0.05 0.65 0.20
The NMOG values include a RAF* of: Not Applicable _____ NMOG n.a Methane(CNG or LNG only) _____
Emission values include deterioration factors (DFs)
(with RAF deterioration, if appl.) of (50K): 0.0050 0.10 0.000 - 0.1 n.a. 0.00 n.a. n.a. n.a. n.a. n.a.
(120K for PC and LDT,150K for EVAP, 120K for MDV): 0.0120 0.30 0.010 - n.a. n.a. 0.01 n.a. 0.006 0.000 0.006 0.000
TLEV/LEV/ULEV/SULEV 50°F emissions (w/o RAF and DFs): 0.1051 0.34 0.035 ***
TLEV/LEV/ULEV/SULEV 50°F standards: 0.1500 3.40 0.050 15

- (2) Evap DF is the average of: 3-day D+HS: Veh DF n.a. and 3-day D+HS Bench DF 0.006, R/L: Veh DF n.a and R/L Bench DF 0.000
2-day D+HS: Veh DF n.a. and 2-day D+HS Bench DF 0.006, ORVR Bench DF 0.000

(3) List configuration with highest projected sales first

Remarks The NMOG/NMHC factor is determined to 1.04/Factor is used for assembly line testing also.

Factor calculation / determination please refer to page 17.07. / RAF not applied

SFTP Results: US06 - HC-NM : 0.056 + NOx : 0.015= 0.071 CO : 0.38 Std.: HC+NOx = 0.14 CO = 8.0.

SC03 - HC-NM : 0.024 + NOx : 0.004 = 0.028, CO : 0.18, Std.: HC+NOx = 0.20, CO = 2.7

** according Road Track Adjustment Procedure, refer to common section 12 / Additive assigned DF's are used

EVAP data are carry over from MY2006 application. ***HCHO compliance by statement.

CO2 Values: HFET - 11-25-2009 = 495 g/mi // US06 - 11-25-2009 = 636 g/mi // SC03 - 11-27-2009 = 903 g/mi

Application

Processed by: _____ Date: _____ Released by: _____ Date: _____

Date Issued: 04-08-2013

Revisions: _____



Bugatti Automobiles S.A.S, a member of the Volkswagen Group

Application for Emissions Certification Part 2

2014 Model Year

Durability Group: EBGTGPGNNV16

Evap. Family: EBGTR0230V16

Test Group: EBGTV08.0V16

Certificate Number: EBGTV08.0V16-001

Durability Group Description: Four Stroke, Otto Cycle, Gasoline Fueled,
Sequential Port Fuel Injection,
Catalyst Codes: REX 1365 M20 /TEX 0130 M

Test group Description: 8.0l SFI/AIR/4WU-TWC/2TWC/4HO2S(2)4TC/2CAC- LDV

Applicable Standards: 50-State: Federal: Tier2 BIN 5
California: LEV II LEV

Carlines Covered: Bugatti Veyron
Bugatti Grand Sport
Bugatti Super Sport

Issue Date: 04-16-2013

Update: 11-11-2013

For Questions, Contact:

Michael Giles, (248) 754-4229
William Rodgers, (248) 754-4219


Table of Contents - Part 2

Section 21 -	Vehicle Emission Control Information Label, Part Numbers	- see Test Group Sections
Section 22 -	Calibration Information	- see Test Group Sections
Section 23 -	Vehicle Description	- see Test Group Sections
Section 24 -	Final US Sales	Please Refer to Sec. 16.24
Section 25 -	Service Manuals, Service Bulletins	Information provided directly at the time of distribution to the dealers.
	Owners Manuals and Warranty Booklets	Provided under separate cover.

Section 21 Pg. 1	Other Information	Engine Code	R.CH-No.:	Revision Date
Part 2/Test Group	EBGTV08.0V16	all		

21.00 Vehicle Emission Control Information Bugatti Veyron / Bugatti GT

Sample label text

		Bugatti Vehicle Emission Control Information			
Conforms to regulations:		2014 MY			
U.S. EPA:	T2B5	LDV	OBD:	CA II	Fuel: Gasoline
California:	LEVII	PC	OBD:	CA II	Fuel: Gasoline
No adjustments needed.		SFI/AIR/4WU-TWC/2TWC/4TC/2CAC/4HO2S(2)/ORVR			
Group:	EBGTV08.0V16		5B0.010.XXX		
Evap:	EBGTR0230V16				

Section 21 Pg. 2	Other Information	Engine Code	R.CH-No.:	Revision Date
Part 2/Test Group	EBGTV08.0V16	all		

21.01 Vacuum Hose Routing Diagram

n.a.

Section 21 Pg. 3	Other Information	Engine Code	R.CH-No.:	Revision Date
Part 2/Test Group	EBGTV08.0V16	all		

21.02 Emission Parts List

Part	Bugatti Veyron
(2x)ECM L7	5B0.906.012
TCM	01C.927.156.B
Mass Air Flow Sensor (2)	07C.906.461
Spark Plug Identification	NGK ILZKR8A Gap: 0,8 – 0,1 101.905.622.A
Engine Coolant Temperature Sensor (ECTS)	06A 919 501 A 059.919.501.A
Injection Valves	8x 07E.906.031 A 8x 07E 906 031 B
Ignition / Ion-Current System	2x ECU 07E.905.367.A 16x ignition coil 07E.905.115.G
Throttle Unit (2)	07E.133.062
Ignition Transformer	07E.905.115.G
Engine Coolant Thermostat	07E.121.113.D
Air Cleaner (2)	5B0.133.837 A / 5B0.133.838 A
Cooling Fan Control	1x 5B0.919.506 (Temperature Sensor) 2x 3B0.919.506 (Switch)
Carbon Canister	5B0.201.801.A
EVAP Frequency Valve (2)	1C0.906.517.A
Heated Oxygen Sensor Bank 1 / Bank 2	Front: 2x 07D.906.262.C / 2x 022.906.262.AL Rear: 2x 07E.906.262 / 2x 06F.906.262.D
Fuel Pump (2)	5B0 906 059 A
Catalyst Assembly	5B0.254.300.C 5B0.254.350.C
Air Pump (2)	2x 022.959.253.B
Air Valve (4)	07E.131.101.A
Air Control Solenoid (2)	Inside Part 5B0.133.797.E
Air Back Pressure Valve (4)	07E.131.078.E / 07E.131.098.C / 07E.131.077.C / 07E.131.097.C
Turbo Charger (4)	07E.145.721 A / 07E.145.722 A / 07E.145.872 A / 07E.145.874 A
Turbo Charger waste gate solenoid (4)	06A.906.283.F
Boost Pressure Sensor (4)	038 906 051 D
Charge Air Cooler (CAC)(2)	07E.145.903.C / 07E.145.904.C
Crankcase Ventilation Valve (2)	07E.103.284.C (with 07E.103.428 A / 07E.103.427 A / 07E.103.425)
Emission Control Label	5B0.010.714K
Pressure Sensor for Flow Check (2)	07C 906 051

Section 21 Pg. 4	Other Information	Engine Code	R.CH-No.:	Revision Date
Part 2/Test Group	EBGTV08.0V16	all		

21.02 Emission Parts List

Part	Bugatti GT
(2x)ECM L7	5B0.906.012
TCM	01C.927.156.B
Mass Air Flow Sensor (4)	07C.906.461
Spark Plug Identification	NGK ILZKR8A Gap: 0,8 – 0,1 101.905.622.A
Engine Coolant Temperature Sensor (ECTS)	06A 919 501 A 059.919.501.A
Injection Valves	8x 07E.906.031 A 8x 07E 906 031 B
Ignition / Ion-Current System	2x ECU 07E.905.367.A 16x ignition coil 07E.905.115. G
Throttle Unit (2)	07E.133.062
Ignition Transformer	07E.905.115. G
Engine Coolant Thermostat	07E.121.113.D
Air Cleaner (2)	5B0.133.837 A / 5B0.133.838 A
Cooling Fan Control	1x 5B0.919.506 (Temperature Sensor) 2x 3B0.919.506 (Switch)
Carbon Canister	5B0.201.801.A
EVAP Frequency Valve (2)	1C0.906.517.A
Heated Oxygen Sensor Bank 1 / Bank 2	Front: 2x 07D.906.262.C / 2x 022.906.262.AL Rear: 2x 07E.906.262 / 2x 06F.906.262.D
Fuel Pump (4)	5B0 906 059 A
Catalyst Assembly	5B0.254.300. D 5B0.254.350. D
Air Pump (2)	2x 022.959.253.B
Air Valve (4)	07E.131.101.A
Air Control Solenoid (2)	Inside Part 5B0.133.797. E
Air Back Pressure Valve (4)	07E.131.078.E / 07E.131.098.C / 07E.131.077.C / 07E.131.097.C
Turbo Charger (4)	07E.145.721 B / 07E.145.722 B / 07E.145.873 B / 07E.145.874 B
Turbo Charger waste gate solenoid (4)	06A.906.283.E
Boost Pressure Sensor (4)	038 906 051 D
Charge Air Cooler (CAC)(2)	07E.145.903.E / 07E.145.904.E
Crankcase Ventilation Valve (2)	07E.103.284.D (with 07E.103.428 B / 07E.103.427 B / 07E.103.425)
Emission Control Label	5B0.010.714K
Pressure Sensor for Flow Check (2)	07C 906 051

Section 21 Pg. 5	Other Information	Engine Code	R.CH-No.:	Revision Date
Part 2/Test Group	EBGTV08.0V16	all		12-18-2012

21.02 Emission Parts List

Engine Control Module (ECM) Information

Model	Trans- mission	Engine Code	Calibration Identification (CAL ID)	Calibration Verification Number (CVN)	Remarks
Bugatti Veyron	L7	CBXA	5B0.906.012 1009	6657 244C	Series Production
Bugatti Veyron	L7	CBXA	5B0.906.012 1010	F115113A	Pre-Production
Bugatti Veyron	L7	CBXA	5B0.906.012 1011	A8AD46F4	Series Production
Bugatti Grand Sport	L7	CBXA	5B0.906.012 1009	6657 244C	Pre Production
Bugatti Grand Sport	L7	CBXA	5B0.906.012 1011	A8AD46F4	Series Production
Bugatti Super Sport	L7	CBLA	5B0.906.012 1201	A0EE 5837	Pre-Production
Bugatti Super Sport	L7	CBLA	5B0.906.012 1202	53CAE31D	Series Production
Bugatti Grand Sport Vitesse	L7	CBLA	5B0.906.012 1100	4441CD7D	Series Production

Transmission Control Module (TCM) Information

Model	Trans- mission	Engine Code	Calibration Identification (CAL ID)	Calibration Verification Number (CVN)	Remarks
Bugatti Veyron	L7	CBXA	01C.927.156.B 4629	F660 EBF9	Series Production
Bugatti Grand Sport	L7	CBXA	01C.927.156.B 4629	F660 EBF9	Pre-Production
Bugatti Super Sport	L7	CBLA	01C.927.156.B 4833	D0D4 6394	Pre-Production
Bugatti Super Sport	L7	CBLA	01C.927.156.B 5435	8237 88D7	Series Production
Bugatti Grand Sport Vitesse	L7	CBLA	01C.927.156.B 5435	8237 88D7	Series Production

Section 22 Pg. 1	Calibration Information	Engine Code	R.CH-No.:	Revision Date
Part2/Test Group	EBGTV08.0V16	all		

22.0 Calibration Information

Emission Component	Parameter	Calibration	Engine Code
fuel system		refer to page 22.01	
fuel pressure control (2 fuel pumps with pressure control)	fuel pressure	4.5 ± 0.06 bar at 170 l/h flow rate	
EGR system		refer to page 22.02	
ignition system		refer to page 22.03	
EVAP system		refer to page 22.04	
miscellaneous			
thermostat	starts to open	87 ± 2 °C	
	fully open by	102 ± 3 °C	

Section 22 Pg. 2	Calibration Information	Engine Code	R.CH-No.:	Revision Date
Part2/Test Group	EBGTV08.0V16	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 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.

22.04 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.