

California Environmental Protection Agency  Air Resources Board	VOLKSWAGEN GROUP OF AMERICA, INC.	Executive Order: A-413-0066 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 1 of 4
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Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC), Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 and 39516 and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: The following exhaust and evaporative emission control systems produced by the manufacturer are certified as described below. Production vehicles shall be in all material respects the same as those for which certification is granted.

TEST GROUP INFORMATION											
MODEL YEAR		TEST GROUP		VEHICLE CLASS(ES)		FUEL CATEGORY		FUEL TYPE			
2017		HVGAV02.0VPD		PC		DEDICATED SINGLE FUEL VEHICLE		GASOLINE			
USEFUL LIFE (miles)			VEHICLE EMISSION CATEGORY				INTERIM / INTERMEDIATE IN-USE STD				
EXH/ORVR		EVAP		FTP		SFTP		FTP		SFTP	
150000		150000		LEV2 SULEV		LEV 2 SFTP STANDARD		*		*	
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS					OBD STATUS				ENGINE DISPLACEMENT (L)		
1	WU-TWC, TWC, WR-HO2S, HO2S, DFI, TC, CAC, AIR				FULL		*		1.8, 2.0		
*	*				PARTIAL		ALL MODELS				
*	*				PARTIAL WITH FINES		*				
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION											
EVAP / ORVR FAMILY			EVAPORATIVE STD CATEGORY			EVAP EMISSION STD VEHICLE CLASS		SPECIAL FEATURES			
HVGAR0110VBD			LEV 2			PC		*			
HVGAR0125VBD			LEV 2			PC		*			
EMISSION CREDIT INFORMATION											
ALLOWANCE FOR TEST GROUP					NMOG CREDIT FOR NON-PZEV ZERO-EVAP		NMOG CREDIT FOR DOR		OPTIONAL EXH. STD FOR WORK TRUCKS		
BASELINE PZEV		AT PZEV		TZEV							
ALL MODELS		*		*	N		N		N		
NMOG AND FLEET AVERAGE INFORMATION											
NMOG RAF	CH4 RAF	FTP NMOG/NMHC RATIO		HCHO/NMHC RATIO	NMOG+NOX FLEET STD PC+LDT (0-3750 LVW) (g/mi)		NMOG+NOX FLEET STD LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)		NMOG+NOX FLEET STD MDV (10001-14000 GVWR) (g/mi)		
*	*	1.04		0.03	0.086		0.101		*		

See the Attachment for Vehicle Models, Evaporative Family, Engine Displacement, Emission Control Systems, Phase-In Standards, OBD Compliance, Emission Standards and Certification Levels, and Abbreviations.

BE IT FURTHER RESOLVED:

The exhaust and evaporative emission standards and the certification emission levels for the listed vehicles are as listed on the Attachment. Compliance with the 50° Fahrenheit testing requirement may have been met based on the manufacturer's submitted compliance plan in lieu of testing. Any debit in the manufacturer's NMOG+NOx and greenhouse gas Fleet Average (PC or LDT or MDPV) or "Vehicle Equivalent Credit" (MDV) compliance plan shall be equalized as required.

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BE IT FURTHER RESOLVED:

For the listed vehicle models, the manufacturer has attested to compliance with Title 13, California Code of Regulations, (13 CCR) Sections 1965 [emission control labels], 1968.2 [on-board diagnostic, full or partial compliance], 2035 et seq. [emission control warranty], 2235 [fuel tank fill pipes and openings] (gasoline and alcohol fueled vehicles only), and "High-Altitude Requirements" and "Inspection and Maintenance Emission Standards" (California 2015 and Subsequent Model Criteria Pollutant Exhaust Emission Standards and Test Procedures and 2017 and Subsequent Model Greenhouse Gas Exhaust Emission Standards and Test Procedures for PC, LDT and MDV).

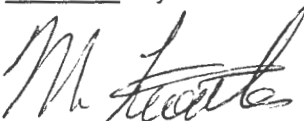
BE IT FURTHER RESOLVED:

Evaporative families HVGAR0110VBD and HVGAR0125VBD are certified pursuant to 13 CCR Section 1976(b)(1)(G)3 and deemed to comply with the requirements of 13 CCR Section 1976(b)(1)(G)1 ["LEV III evaporative requirements"].

Vehicles certified under this Executive Order shall conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this 30th day of June 2016.

FOR 
 Annette Hebert, Chief
 Emissions Compliance, Automotive Regulations and Science Division

ATTACHMENT**EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS****EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFET, 50°F, 20°F)**

	FUEL TYPE	CH4: methane; NMOG: non-CH4 organic gas; HC: hydrocarbon; NMHC: non-CH4 HC; CO: carbon monoxide; NOx: oxides of nitrogen; HCHO: formaldehyde; PM: particulate matter; RAF: reactivity adjustment factor; 2DHS/3DHS [g HC/test]: 2/3 days diurnal+hot-soak; RL [g HC/mi]: running loss; ORVR [g HC/gallon dispensed]: on-board refueling vapor recovery; g: gram; mg: milligram; mi: mile; K: 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP: supplemental FTP									
		NMOG (g/mi)		CO (g/mi)		NOx (g/mi)		HCHO (mg/mi)		PM (g/mi)	
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP@50K	*	*	*	*	*	*	*	*	*	*	*
FTP@UL	GASOLINE - TIER 2 UNLEADED	0.0039	0.010	0.17	1.0	0.008	0.02	0.0	4	0.004	0.01
50°F @4K	GASOLINE - TIER 2 UNLEADED	0.0068	0.020	0.18	1.0	0.006	0.02	0.0	8		

	FUEL TYPE	NOx (g/mi)		CO (g/mi)	
		CERT	STD	CERT	STD
HWFET @ 50K	*	*	*		
HWFET @ UL	GASOLINE - TIER 2 UNLEADED	0.003	0.03		
20°F @ 50K	GASOLINE-COLD CO HIGH OCTANE			1.98	10.0

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

	FUEL TYPE		US06			SC03		COMPOSITE		
			NMHC+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMHC+NOx (g/mi)	CO (g/mi)	NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)
@ 4K	GASOLINE - TIER 2 UNLEADED	CERT	0.032	1.48		0.033	0.19			
		STD	0.14	8.0		0.20	2.7			
@ UL	GASOLINE - TIER 2 UNLEADED	CERT	*	*	*	*	*	0.0271	*	*
		STD	*	*	*	*	*	0.103	*	*
		BIN						0.030		

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EVAPORATIVE FAMILY	FUEL TYPE	WHOLE VEHICLE EVAPORATIVE TESTING						RL (g/mi) @ UL	
		3DHS (g/test) @ UL			2DHS (g/test) @ UL				
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
HVGAR0110VBD	GASOLINE - CA PHASE 2	0.274	0.35	*	0.254	0.35	*	0.000	0.05
HVGAR0125VBD	GASOLINE - TIER 2 UNLEADED	0.231	0.35	*	0.234	0.35	*	0.000	0.05

ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL ONLY EVAP & CANISTER BLEED						
				FUEL TYPE	3DHS RIG TEST (g/test) @ UL		2DHS RIG TEST (g/test) @ UL		BLEED CANISTER TEST (g/test) @ 4K	
	FUEL TYPE	CERT	STD			CERT	STD	CERT	STD	CERT
HVGAR0125VBD	GASOLINE - TIER 2 UNLEADED	0.106	0.20	GASOLINE - TIER 2 UNLEADED	0.04	0.0	*	0.0	*	*
HVGAR0110VBD	GASOLINE - TIER 2 UNLEADED	0.014	0.20	GASOLINE - CA PHASE 2	0.02	0.0	*	0.0	*	*

*: not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GVWR,0-3750#LVW; LDT2: LDT<6000#GVWR,3751-5750#LVW; LDT3: LDT 6001-8500#GVWR,3751-5750#ALVW; LDT4: LDT 6001-8500#GVWR,5751-8500#ALVW; MDV: medium-duty vehicle; MDV4: MDV 8501-10000#GVWR; MDV5: MDV 10001-14000#GVWR; MDPV: medium-duty passenger vehicle; HDV: heavy-duty vehicle; ECS: emission control system; CERT: certification; STD: standard; FEL: family emission limit; GVWR: gross vehicle weight rating; LVW: loaded vehicle weight; ALVW: adjusted LVW; LEV: low emission vehicle; ULEV: ultra LEV; SULEV: super ULEV; ZEV: zero-emission vehicle; PZEV: partial ZEV; AT PZEV: advanced technology PZEV; TZEV: transitional ZEV; TWC/OC: 3-way/oxidizing catalyst; ADSTWC: adsorbing TWC; HAC: HC adsorbing catalyst; WU: warm-up catalyst; NAC: NOx adsorption catalyst; SCR-U or SCRC/SCR-N or SCRC-NH3: selective catalytic reduction-urea/ammonia; NH3OC: ammonia oxidation catalyst; CTOX/PTOX: continuous/periodic trap oxidizer; DPF: diesel particulate filter (active); GPF: PM filter for spark-ignited engine; HO2S/O2S: heated/oxygen sensor; WR-HO2S or AFS: wide range/linear/heated air-fuel ratio sensor; NOXS: NOx sensor; PMS: PM sensor; RDQS: reductant quality sensor; NH3S: ammonia sensor; EGR: exhaust gas recirculation; EGRC: EGR cooler; AIR/AIRE: secondary air injection (belt driven)/(electric driven); PAIR: pulsed AIR; SFI/MFI: sequential/multiport fuel injection; DFI/IFI: direct/indirect fuel injection; TC/SC: turbo/super charger; CAC: charge air cooler; F/P/\$: full/partial/partial with fines on-board diagnostic; DOR: direct ozone reducing; HCT: hydrocarbon trap; BCAN: bleed carbon canister; prefix 2: parallel; (2) suffix: series; CNG/LNG: compressed/liquefied natural gas; LPG: liquefied petroleum gas; E85: "85%" ethanol ("15%" gasoline) fuel; E10: "10%" ethanol ("90%" gasoline) fuel; A: automatic (with lockup); M: manual transmission; SA: semi-automatic transmission; CV: continuously variable transmission; SCV: selectable continuously variable transmission; AM: automated manual transmission; AMS: automated manual-selectable transmission; OT: other transmission

2017 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE
VOLKSWAGEN	BEETLE	PC	1.8	M5	HVGAR0110VBD	1	P	PZEV
VOLKSWAGEN	BEETLE	PC	1.8	SA6	HVGAR0110VBD	1	P	PZEV
VOLKSWAGEN	BEETLE	PC	2.0	AMS6	HVGAR0110VBD	1	P	PZEV
VOLKSWAGEN	BEETLE CONVERTIBLE	PC	1.8	SA6	HVGAR0110VBD	1	P	PZEV
VOLKSWAGEN	BEETLE DUNE	PC	1.8	SA6	HVGAR0110VBD	1	P	PZEV
VOLKSWAGEN	BEETLE DUNE CONVERTIBLE	PC	1.8	SA6	HVGAR0110VBD	1	P	PZEV
VOLKSWAGEN	JETTA	PC	1.8	SA6	HVGAR0110VBD	1	P	PZEV
VOLKSWAGEN	JETTA GLI	PC	2.0	AMS6	HVGAR0110VBD	1	P	PZEV
VOLKSWAGEN	JETTA GLI	PC	2.0	M6	HVGAR0110VBD	1	P	PZEV
VOLKSWAGEN	PASSAT	PC	1.8	M5	HVGAR0125VBD	1	P	PZEV
VOLKSWAGEN	PASSAT	PC	1.8	SA6	HVGAR0125VBD	1	P	PZEV