

Executive Order: A-413-0184

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

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Pursuant to the authority vested in California 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-19-095;

IT IS ORDERED AND RESOLVED: That 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													
MODE	MODEL												
YEAR		EST GROUP		VEHICLE CLASS(ES)				FUEL CATEGORY			FUEL TYPE		
2021	L MV	GAV05.2NBE			PC			DEDICATED SINGLE FUEL VEHICLE			GASOLINE		
	USEFUL	LIFE (miles)		VEH	HICLE EMISS	ION C	ATE	GORY	INTERIM / IN	TER	MEDIATE IN-USE STD		
EXH	1/ORVR	EVAP			FTP		SF	TP	FTP		SFTP		
15	50000	150000)	LEV3	LEV160	LEV	3 C	OMPOSITE	PM		PM		
SPE	CIAL FE	EATURES & EX SYS	HAU		ON CONTRO	L		OBD S	TATUS	E	ENGINE DISPLACEMENT		
1 2	WU-TWC	, 2TWC, 2WR-	H02	S, 2HO2S,	DFI+SFI,	AIR		FULL	*				
*			*				P	ARTIAL	ALL MODELS		5.2		
*	* *							PARTIAL WITH * FINES					
		E/	/APC	DRATIVE &	REFUELING	(EVA	P/OR	VR) FAMILY	INFORMATIO	V			
EVA	P/ORV	R FAMILY	EVA	APORATIVE	STD CATE	GORY	Y EVAP EMISSION STD VEHICLE CLASS			s	PECIAL FEATURES		
ı	WGAR01	.55NAL		LEV 2				PC			*		
					EMISSION C	REDIT	INFO	ORMATION					
	EDIT FO	X FLEET AVE. OR EXTENDED RRANTY			REDIT FOR NO ZERO-EVAP	DIT FOR NON-PZE ERO-EVAP		NMOG CREDIT FOR DOP		R	OPTIONAL EXH. STD FOR WORK TRUCKS		
		N			N				N		N		
				NMOG	AND FLEET	AVE	RAGI	INFORMA	TION				
NMOG RAF	CH4 RAF	FTP NMOG/NMHC RATIO	нс	HO/NMHC RATIO	NMOG+NOX FLEET S PC+LDT (0-3750 LV (g/mi)					-8500 MDV (10,001-14,000			
*	*	1.10		0.03	0	.058			0.065		*		

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. (As applicable, heavy-duty vehicles (HDV) over 14,000 pounds in GVWR listed in this Executive Order are certified to the requirements in 13 CCR Section 1961.2 applicable to MDV pursuant to 13 CCR Section 1956.8(c)(3) or 13 CCR Section 1956.8(h)(5), as applicable.)



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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 fleet average compliance requirement for NMOG+NOx or Vehicle Equivalent Credit (13 CCR Sections 1961.2(b)(1), 1961.2(b)(3), or 1961.2(c) (3), and the incorporated test procedures, as applicable), or Greenhouse Gas Emissions (13 CCR Section 1961.3, or 17 CCR Section 95663, and the incorporated test procedures, as applicable), for PC, LDT, MDPV or MDV shall be equalized as required.

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).

day of April 2020.

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 _______

Allen Lyons, Chief

Emissions Certification and Compliance Division



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ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFET, 50°F, 20°F) 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 to HC/text); 2/2 days diversity and the standard of the

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

1	1										
		NMOG+NOx (g/mi)		(g/mi) (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- TIER3 E10 PREM	0.0866	0.160	0.67	4.2	*	*	*	4	0.001	0.003
50°F @4K	GASOLINE- TIER3 E10 PREM	0.1154	0.320	0.37	4.2	*	*	2.4	30		

	FUEL TYPE	NMOG+N	lOx (g/mi)	CO (g/mi)		
		CERT	STD	CERT	STD	
HWFET @ 50K	*	*	*			
HWFET @ UL	GASOLINE-TIER3 E10 PREM	0.0466	0.160			
20°F @ 50K	GASOLINE-TIER3 E10 PREM			2.02	10.0	

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

				US06		SC0:	3	COMPOSITE		
	FUEL TYPE		NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMOG+NOx (g/mi)	CO (g/mi)	NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)
@ 4K	*	CERT	*	*		*	*			
		STD	*	*		*	*			
		CERT	*	*	3.0	*	*	0.0685	0.57	*
@ UL	GASOLINE- TIER3 E10 PREM	STD	*	*	6	*	*	0.077	4.2	*
		BIN						0.140		

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

			WHOLE \						
EVAPORATIVE FAMILY	FUEL TYPE	3DH	IS (g/test) (@ UL	2D	HS (g/test)	RL (g/n	ni) @ UL	
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
MVGAR0155NAL	GASOLINE- TIER3 E10 PREM	0.491	0.50	*	0.354	0.65	*	0.00	0.05



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ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS											
		FUEL ONLY EVAP & CANISTER BLEED									
EVAPORATIVE FAMILY		/gallon) @	D UL	FUEL '	TYPE		IG TEST) @ UL		RIG TEST est) @ UL	BLEED CA TEST (g/te CERT	
	FUEL TYPE	CERT	STD			CERT	STD	CERT	STD	BLEED C TEST (g/t CERT * * HES) STD	STD
MVGAR0155NAL	GASOLINE- TIER3 E10 PREM	1	0.20	*		*	*	*	*	*	*
l l	EFFECTIVE	LEAK D	IAMET	ER STA	NDAR	AND CE	RTIFICAT	TION LE	EVEL (INCH	ES)	
EVAPORATIVE	FAMILY	LEA	K FAMIL	.Υ						STD	
* *				*				*			

*: 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: mediumduty passenger vehicle; HDV: heavy-duty vehicle; ECS: emission control system; CERT: certification; STD: standard; FEL: family emission limit; GWR: 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; 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; HP/LP EGR: High/Low Pressure EGR; 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; FFH: fuel fired heater; 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; a hyphen (-) between after treatment ECS indicates multiple functionalities of the after treatment device (ex. DPF-SCRC: SCR coated DPF); 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; AER: all-electric range; EAER: equivalent AER; PHEV: plug-in hybrid electric vehicle; NMOG + NOx Fleet Ave. Credit for Extended Warranty: N = no credits, Y = credits, S = credits for some/select models

	2021 MODEL YEAR: VEHICLE MODELS INFORMATION												
MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH	OBD						
AUDI	R8	PC	5.2	AMS7	MVGAR0155NAL	1	P						
AUDI	R8 2WD	PC	5.2	AMS7	MVGAR0155NAL	1	P						
AUDI	R8 SPYDER	PC	5.2	AMS7	MVGAR0155NAL	1	P						
AUDI	R8 SPYDER 2WD	PC	5.2	AMS7	MVGAR0155NAL	1	P						