

Executive Order: A-048-0077

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.

MOD	=,			_			TEST GRO	OUP I	NFOF	RMATION						
MOD		TEST C	GROUP			VEHIC	CLE CLASS(E	S)		FUEL CATEGORY				FUEL TYPE		
202	1 M	RRGV0	06.7N74 PC							DEDICATED SINGLE FUEL VEHICLE				GASOLINE		
	USEFUL LIFE (miles) VEHICLE EMISSIO					ION	CATEGORY INTERIM / INT			TE	RME	DIATE IN-USE	STD			
EXI	H/ORVR		EVAP	1			FTP		SF	TP	ľ	FTP		T	SFTP	0.0
1.	50000		15000	0		LEV3	ULEV125	LEV	3 C	OMPOSITE	1	*			PM	
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS					L		OBD S	T	ATUS		ENGI	NE DISPLACE (L)	MEN			
1	2TW	C, 2W	R-HO2S,	2H	102S	, DFI,	2TC, 2CAC			FULL		*	11			
*					*				F	PARTIAL		ALL MODELS			6.7	
*	*						PAR	TIAL WITH	гн _*							
			E	VAP	PORA	TIVE &	REFUELING	(EVA	P/OR	VR) FAMIL	Y	INFORMATION	1			
EVA	P / OR\	/R FAN	VILY	ΕV	/APC	RATIV	E STD CATE	ORY	Y EVAP EMISSION STD VEHICLE CLASS				SPECIAL FEATURES			
l	ARRGRO:	170RR1	1.		LEV	3 OPT:	ION2 WITH F	EL	PC				*			
							EMISSION CF	REDIT	INFO	RMATION						
	EDIT FO		ET AVE. TENDED TY		NN		REDIT FOR NO ZERO-EVAP	ON-PZ	ZEV	NMOG CI	RI	EDIT FOR DOF	2	OPTIONAL EXH. STD FOR WORK TRUCKS		
		N					N					N	7		N	
						NMOG	AND FLEET	AVE	RAGE	INFORMAT	ΓI	ON				
IMOG RAF	CH4 RAF	NMO	FTP G/NMHC ATIO	Н	CHO/ RA	NMHC TIO	NMOG+NOX FLE PC+LDT (0-375((g/mi)			LVW) LDT (3751 I		NOX FLEET STD 3751 LVW-8500 1) + MDPV (g/mi)		NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)		
*	*	1	L.10		1	+	0.	058				0.065	1		*	
ee the	a Attack	ment	for Vahio	lo N	Mode	olo Eve	aporotivo For	oil. F	-nain	o Dionlesso		ent Emission	_			

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).

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 [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

FUEL TYPE

			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	0.046	0.125	0.2	2.1	*	*	*	4	0.002	0.003		
50°F @4K	GASOLINE- TIER3 E10	0.039	0.250	0.2	2.1	*	*	*	16				

	FUEL TYPE	NMOG+N	lOx (g/mi)	CO (g/mi)		
		CERT	STD	CERT	STD	
HWFET @ 50K	*	*	*			
HWFET @ UL	GASOLINE-TIER3 E10	0.007	0.125			
20°F @ 50K	COLD CO E10 REGULAR GASOLINE (TIER3)			0.5	10.0	

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

	The state of the s											
				US06		SC0	3	COMPOSITE				
	FUEL TYPE		NMOG+NOx	CO	PM	NMOG+NOx	CO	NMOG+NOx	CO	PM		
			(g/mi)	(g/mi)	(mg/mi)	(g/mi)	(g/mi)	(g/mi)	(g/mi)	(mg/mi)		
@ 4K	*	CERT	*	*		*	*					
		STD	*	*		*	*					
		CERT	*	*	5	*	*	0.036	0.2	*		
@ UL	GASOLINE- TIER3 E10	STD	*	*	6	*	*	0.077	4.2	*		
		BIN						0.120				

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

			WHOLE	VEHICLE	EVAPORA	TIVE TESTI	NG		
EVAPORATIVE FAMILY	FUEL TYPE	3DH	S (g/test) (@ UL	2D	HS (g/test)	RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
MRRGR0170RR1	GASOLINE- TIER3 E10	0.190	0.300	0.400	0.252	0.300	0.400	0.01	0.05

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

EVAPORATIVE FAMILY				FUEL ONLY EVAP & CANISTER BLEED									
	ORVR (g/gallon) @ UL			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	STD			
MRRGR0170RR1	GASOLINE- TIER3 E10	0.06	0.20	GASOLINE- TIER3 E10	*	*	*	*	0.012	0.020			



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			5						
EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)									
EVAPORATIVE FAMILY LEAK FAMILY		CERT	STD						
MRRGR0170RR1	MRRGR0170RR1-001	0.01	0.02						
not applicable. We never by LIV.									

*: 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; 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; 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
ROLLS ROYCE	CULLINAN	PC	6.7	SA8	MRRGR0170RR1	1	P
ROLLS ROYCE	CULLINAN BLACK BADGE	PC	6.7	SA8	MRRGR0170RR1	1	P
ROLLS ROYCE	GHOST	PC	6.7	SA8	MRRGR0170RR1	1	P
ROLLS ROYCE	GHOST EWB	PC	6.7	SA8	MRRGR0170RR1	1	P
ROLLS ROYCE	PHANTOM	PC	6.7	SA8	MRRGR0170RR1	1	P
ROLLS ROYCE	PHANTOM EWB	PC	6.7	SA8	MRRGR0170RR1	1	P