

Executive Order: A-254-0423

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-14-012;

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 GR	OUP II	VFOR	MATION					
MODE YEAR		EST GROUP	Œ	VEHICLE CLASS(ES)			FUEL CATEGORY			FUEL TYPE			
2020) LH	IYXV02.4MH5	PC DE				the second second	SINGLE FUEL		GASOLINE			
	USEFUL	LIFE (miles)	VEHICLE EMISSION CATEGORY					INTERIM / IN	RMEDIATE IN-USE STD				
EXH/ORVR EVAP				100	FTP SFTF			TP	FTP		SFTP		
150000 150000			0	LEV3	ULEV70 LEV 3 COME		MPOSITE	POSITE PM		PM			
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS							OBD STATUS			Office special 22	ENGINE DISPLACEMENT		
1	WU-TWC, TWC, WR-HO2S, HO2S, DFI							FULL *		- SEGMENT			
*	*						Р	PARTIAL ALL MODELS		2000 Philas	2.4		
*	* *							TIAL WITH	*				
		E	VAF	ORATIVE &	REFUELING	(EVA	P/OR	VR) FAMILY	INFORMATIO	V			
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR							VEHICLE CLASS				SPECIAL FEATURES		
LHYXR0135MHG LE					V 3 OPTION2			PC			HCT		
				ı	EMISSION C	REDIT	INFO	RMATION					
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY NMOG CREDIT FOR NON ZERO-EVAP							NMOG CREDIT FOR DO			R	OPTIONAL EXH. STD FOR WORK TRUCKS		
n n									N	N			
				NMOG	AND FLEE	TAVE	RAGE	INFORMAT	TION				
NMOG RAF	" I NIMOG/NIMILO " O' TIMO DO LI DT /0 275				0-375	0 LVW) LDT (3751		+NOX FLEET STD N 3751 LVW-8500 R) + MDPV (g/mi)		NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)			
*	*	1.10		*	(0.065			0.074		*		

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:

LAND FARM

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).

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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.

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Executed at El Monte, California on this day of June 2019.

Allen Lyons, Chief

Emissions Compliance, Automotive Regulations and Science Division



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ATTACHMENT

	EXHA														LEVELS	3		
	FUE	EXH,	r a C	CH4: m nonoxi idjustm DRVR	nethand de; NO nent fa [g HC/	e; NMC 0x: oxic ctor; 2[gallon o	G: non- les of nit DHS/3DH dispense	CH4 orga rogen; H HS [g HC ed]: on-bo	anic ga CHO: /test]: pard re	s; HC: formald 2/3 day fueling	hydrocart lehyde; P s diurnal- vapor rec	M: particu -hot-soak;	C: no late n ; RL [gram;	n-CH4 H natter; R g HC/mi] ; mg: mil	IC; CO: ca AF: reactiv : running I ligram; mi:	vity oss;		
					OG+N (g/mi)	Ох		CO g/mi)			lOx /mi)		HCH(3.346	20119	M mi)		
				CERT	Г	STD	CERT	ST	D	CERT	STD	CER	Т	STD	CERT	STD		
FTP@50		*	7.5	*		*	*	*		*	*	*	*		*	*		
FTP@U	11 1	OLIN R3 E		0.03	1 0	.070	0.6	1.	7	*	*	****		4	0.001	0.003		
50°F @4	1KI	OLIN R3 E		0.03	0 0	.140	0.4	1.	7	* * *			16					
								2 12 7		N	MOG+NO	x (g/mi)	丁		CO (g/mi			
					FUI	EL TYF	E			CE	ERT	STD		CER	T.	STD		
HWFE1	「@ 50K		* ** ***			*	and go	585	100	7 00 000	* *							
HWFE	T@UL			GASOLINE-TIER3 E10					1,1240	0.	019	9 0.070						
20°F	20°F @ 50K COLD		OLD CO	CO E10 REGULAR GASOLINE (TIER3)					R3)					1.4 10.0		10.0		
			- 150 - 2 S	FTP E	XHAL	JST EN	ISSION	STAND	ARDS	AND C	ERTIFIC	ATION LE	EVEL	S	Yaliz			
				US06						SC03			PAT	COMPOSITE				
	FUEL T	YPE		32	IOG+N (g/mi)		CO (g/mi)		M J/mi)		G+NOx /mi)	CO (g/mi)		OG+NOx g/mi)	CO (g/mi)	PM (mg/mi)		
@ 4K	*	* CEF			*		*				*	*						
				D *		*	*		*		*							
		ASOLINE- IER3 E10 BI		RT *			* 1		1	*		*	0.030		0.8	*		
@ UL					*		*	= }	6		*	*	o	.083	4.2	*		
													C	.070				
		WH	IOLE V	'EHICI	LE EV	APORA	TIVE	MISSION	STAI	NDARE	S AND C	ERTIFIC	ATIO	N LEVE	LS			
EVAD		_				WHOLE VEHICLE EVAP					PORATIVE TESTING				RL (g/mi) @ UL			
	EVAPORATIVE FAMILY		1 FUEL 171		TYPE 3DHS (g/test) @ UL					2DHS (g/test)		@ UL				(g/iii/ @ OL		
		1				RT	STD FEL		CE	RT	STD	FEI	_	CEF	RT	STD		
THOUGHTSEMUCI		EASOLI LEV3		10 2261 0		. 300	300 * 0		224 0.300		*		0.01		0.05			
C	RVR / F	UEL (ONLY	CAN	STER	BLEE	EVAP	ORATIV	E EMIS	SSION	STANDA	RDS AND	CEF	RTIFICA	TION LEV	ELS		
	EVAPORATIVE FAMILY									UEL ONLY EVAP & C					T			
100000000000000000000000000000000000000			E ORVR (g/gal			y UL	FUE	FUEL TYPE		DHS RIG TEST (g/test) @ UL			2DHS RIG (g/test) @			ANISTER est) @ 4K		
		FL	JEL TY	PE C	CERT	STD		1 322 1112		ERT STD		CERT		STD	CERT	STD		
LHYXE	0135MH	r <u>-</u> 1	SOLIN		0.03	0.20		OLINE- 3 E10		*	*	*		*	0.003	0.020		



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EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)								
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD					
LHYXR0135MHG	LHYXR0135MHG-TM1	0.00	0.02					

: not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GVWR,0-3750#LVW; LDT2: DT<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; 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; 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

2020 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	
HYUNDAI	SANTA FE AWD	PC	2.4	SA8	LHYXR0135MHG	1	P	
HYUNDAI	SANTA FE FWD	PC	2.4	SA8	LHYXR0135MHG	1	P	

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