

Executive Order: A-254-0451

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	EI			_		TEST GRO	OUP II	NFOF	RMATION					
YEA		TEST GROUP			VEHICLE CLASS(ES)			FUEL CATEGORY			FUEL TYPE			
202			702.4LH3		PC			DEDICATED SINGLE FUEL VEHICLE			GASOLINE			
	USEFL	UL LIF	E (miles)		VE	VEHICLE EMISSION CAT				INTERIM / I	NTER	ERMEDIATE IN-USE STD		
EXH/ORVR EVAP						FTP			TP	FTP		SFTP		
150000 150000			)	LEV3	V3 SULEV30 LEV 3			COMPOSITE *			PM			
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS							L		OBD STATUS			ENGINE DISPLACEMENT		
1	DFI, WR-HO2S, HO2S, WU-TWC, TWC								FULL	ALL MODELS				
*	*							F	ARTIAL *			2.4		
*	* *							PAR	ARTIAL WITH *					
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION														
EVA	EVAP / ORVR FAMILY EVAPORATIVE STD CATEGORY								EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES		
MHYXR0133LHG					LEV 3 OPTION2				P	С		HCT		
						EMISSION CF	REDIT	INFO	RMATION					
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY  NMOG CREDIT F ZERO-I						REDIT FOR NO ZERO-EVAP	ZEV	NMOG CREDIT FOR DOR			OPTIONAL EXH. STD FOR WORK TRUCKS			
	N N								N			N		
					NMOG	AND FLEET	AVE	RAGE	INFORMAT	ION				
NMOG RAF	CH4 RAF		FTP OG/NMHC RATIO	1	IO/NMHC RATIO	NMOG+NOX PC+LDT (0 (g/				0	MOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)			
*	*		1.10		*	0.	058					*		
- 41-	A 11	1				=								

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 on this \_\_\_\_\_ day of June 2020.

Allen Loons, Chief

Emissions Certification and Compliance Division



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									TTA	CHN	MENT								
	E	KHA	US	T ANI	D EV	APC	RAT						ND CER	rici	OATIO				
			EXI	AUST	EMIS	SION	STAN	DARDS A	ND CE	RTIFIC	CATION	I EVEL	S (ETD III		CATIC	)N L	EVE	_S	
		FUEL TYPE			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														
					NN	/IOG- (g/m	NOx i)		CO (g/mi)			NOx (g/mi)		HCi (mg/			PM (g/mi)		
					CER	T	STD	CER	Γ S	TD	CERT	STI	CEF	RT	STD			STD	
FTP@5			*		*	_	*	*		*	*	*	*		*	$\top$	*	*	
FTP@	OL	GASOLINE- TIER3 E10 GASOLINE-			0.02	0	0.03	0.3	1	. 0	*	*	*		4	C	.000	0.003	
50°F @	MK	TIEF			0.02	0	0.060	0.4	1	.0	*	*	*		8				
						F	UEL T	YPE				NMOG+NOx (g/mi)				CO (g/mi)			
HAIPP		-									CE	RT	STD		CE	CERT		STD	
HWFE'		-			* GASOLINE-TIER3 E10						+	*	*				-		
						GASOLINE (TIER3)			0.	0.007 0.030									
20°F	@ 501	`	CC		-											1.6		10.0	
				S	FTP E	XHA	USTE		STANE	DARDS	AND C	ERTIFIC	CATION LI	EVEL	_S				
			<b>'</b>					US06				SC03			COMPOSITE				
	FUE	JEL TYPE		TPE		NMOG+NOx (g/mi)		CO (g/mi)	1			S+NOx mi)	CO (g/mi)		lOG+N( (g/mi)		CO (g/mi)	PM (mg/mi	
@ 4K		*	CERT				*			,	*								
				STD			*			,	k	*							
				CERT		*			*		0		*		(	0.018		1.8	*
@ UL			SINE- S E10 STD		*			*		,	,	*	*			4.2	*		
				BIN	HICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS														
			WHO	OLE VI	HICL	EEV								TIO	N LEVE	ELS			
EVAPO		VE	VE FUEL TYP		DF.					EVAP		ORATIVE TESTING  2DHS (g/test) @ UL				RL (g/mi) @ UL			
FA	FAMILY		FUELTY		(3			STD	/test) @ UL		RT	,		FEL		CERT		STD	
MHYXR0133LHG		LHG	GASOLTNE-			$\dashv$	0.300 * 0.1				0.300	*		0.01		+	0.05		
0	RVR /	FUE	EL O	NLY /	CANIS	TER	BLEE	D EVAPO	RATIV	E EMIS	SION S	TANDA	RDS AND	CEF	RTIFICA	ATION	LEV	ELS	
												ION STANDARDS AND CERTIFICATION LEVE L ONLY EVAP & CANISTER BLEED							
EVAPO FA	ORATI	VE	ORVR (g		g/gall	on) (	) UL	FUEL	3DI			IS RIG TEST /test) @ UL		2DHS RIG T (g/test) @		EST BLEE		D CANISTER (g/test) @ 4K	
			FUE	EL TYP	E CI	ERT					RT					STD CER			
MHYXR0133LHG		HG		GASOLINE- TIER3 E10 0.00		0.20	GASOLINE- LEV3 E10		,	k	*	*		*	0.011		0.020		



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					1 ago + 01 +					
EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)										
EVAPORATIVE FAMILY	LEAK FAMILY	CERT		STD						
MHYXR0133LHG	MHYXR0133LHG-TL2	0.00	0.00							
* not analizable #				0.02						

\*: 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
HYUNDAI	TUCSON FWD	PC	2.4	SA6	MHYXR0133LHG	1	F