

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 GRO	UP IN	FOR	MATION	a da derana angen an				
MOD	T	EST GROUP	VEHICLE CLASS(ES)					FUEL CATEGORY			FUEL TYPE		
202	20 LHYXTO3.8NL5 LDT2							DEDICATED SINGLE FUEL VEHICLE			GASOLINE		
	USEFUL	LIFE (miles)		VEH	ICLE EMISS	ION C	ATE	GORY	INTERIM / IN	TER	MEDIATE IN-USE STD		
EX	H/ORVR	EVAP		FTP S			SF	FTP FTP			SFTP		
1	50000	150000		LEV3	ULEV70 LEV 3 COM			MPOSITE	PM		PM		
SP	ECIAL FE	ATURES & EXI	HAUS TEMS		ON CONTRO	L		OBD S	STATUS		ENGINE DISPLACEMENT (L)		
1	2W	J-TWC, TWC,	102S, 2H	02S, DFI			FULL	*	$\neg [$				
*		gan ng ang mpanyan pana at ay di Agung Agung Kang ga	9999 (			P	ARTIAL	ALL MODELS		3.8			
*					PAR	TIAL WITH	Ŵ						
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION													
EV	AP / ORV		PORATIVE	STD CATE	GORY	Y EVAP EMISSION STD VEHICLE CLASS			S	SPECIAL FEATURES			
	LHYXR01	35NLG		LEV 3	OPTION2			LD	T2		*		
				E	EMISSION CI	REDIT	INFC	RMATION					
	NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY							EV NMOG CREDIT FOR DOR			OPTIONAL EXH. STD FOR WORK TRUCKS		
		N			N				N	N			
				NMOG	AND FLEET	AVE	RAG	EINFORMA	TION				
NMOG RAF	CH4 RAF												
*	*	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:**

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 2011 day of April 2019.

Allen Lyons, Chief Emissions Compliance, Automotive Regulations and Science Division



FUEL TYPE

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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

								0.000000000000000000000000000000000000										
				NMOG+NOx (g/mi)			CO (g/mi)				NOx g/mi)	-	HCHO (mg/mi)			PM (g/mi)		
			C	ERT		STD	CER	T ST	D	CERT	• STD	CERT	r	STD	CER	Т	STD	
FTP@50	JK	ŧ.		*	-	ŧ	*	1 *		*	*	*	-	*	*		*	
FTP@U		GASOLINE- TIER3 E10		.035	5 0	.070	0.3	1.	7	*	*	*		4 0		)1	0.003	
50°F @4	50°F @4K GASOLINE- TIER3 E10			. 029	0	.140	0.1	1.	7	*	. *	*		16				
	110 M. 1941				EU	EL TYP	F			N	IMOG+NC	Dx (g/mi)			CO (g	/mi)		
									CERT		STD		CERT		STD			
HWFET	@ 50K					*					*	*			11-1-1-4 	lata i		
HWFE	T @ UL			GAS	OLIN	e-tief	3 E10			0.	.018	0.070						
20°F (	@ 50K	cc						E (TIE						1.4		]	.2.5	
			SF	TP E	XHAU	IST EM	ISSION	STAND	ARDS	AND C	CERTIFIC	ATION LE	VEL	S				
						ι	JS06			SC03			COMPOSITE					
- 5	FUEL TY				OG+NOx (g/mi)		CO PN (g/mi) (mg/			NMOG+NC (g/mi)		CO (g/mi)	NMOG+NOx (g/mi)			O mi)	PM (mg/mi)	
@ 4K	*		CERT	хт *		*		2		*	*							
			STD		*		#			+	*	*						
		GASOLINE- TIER3 E10 BIN					*		2		*	*	0	0.035		. 3	*	
@ UL							*		6		*	*	0.083		4	4.2	*	
-										197 <u>8</u> -			0.070					
		WH	IOLE VE	HICL	E EV/	APORA	TIVE E	MISSION	STA	NDAR	DS AND C	ERTIFICA	TIO	N LEVEL	S			
						W	HOLE \	/EHICLE	EVAF	PORAT	IVE TEST	ING						
			PE	3DHS (g/test) @ UL					2DHS (g/test) @ UL			RI		L (g/mi) @ UL				
					CER	T S	STD	FEL	CERT		STD F		L CE		RT STD		STD	
LHYXR0135NLG			ASOLIN LEV3 E1	S ( ) ( ) (	0.22	29 0	. 400	*	0.2	202	0.400	*		0.02			0.05	
0	RVR / F	JEL O	ONLY / C	CANIS	STER	BLEEC	EVAP	ORATIV	E EMI	SSION	STANDA	RDS AND	CEF	RTIFICA	TION L	EVE	LS	
		T							. F	UEL O	NLY EVA	P & CANI	STEF	RBLEED	)			
EVAPORATIVE		E ORVR (g/gal						FUEL TYPE		BDHS RIG TEST (g/test) @ UL		2DHS RIG (g/test) @				D CANISTER (g/test) @ 4K		
		FUEL TYPI		EC	ERT	STD	1		Statistics and statistics	ERT	STD	CERT	and the second s		CERT		STD	
LHYXR	0135NL	2	SOLINE ER3 E1	1 0	. 02	0.20	GASOLINE LEV3 E10			*	*	*	*		0.007		0.020	

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EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)												
EVAPORATIVE FAMILY	LEAK FAMILY	-	CER	Г	STD							
LHYXR0135NLG	LHYXR0135NLG-LX		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: 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; 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; prefx 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;												

# 2020 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MAKE MODEL		ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
HYUNDAI	PALISADE AWD	LDT2	3.8	SA8	LHYXR0135NLG	1	P
HYUNDAI	PALISADE FWD	LDT2	3.8	SA8	LHYXR0135NLG	1	P