

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.

SYSTEMS OBD STATUS (L) 1 TWC, WU-TWC, HO2S, WR-HO2S, DFI, CAC, TC, EGR, EGRC FULL * * * * PARTIAL ALL MODELS * * PARTIAL WITH FINES * 2.5 * * * PARTIAL WITH FINES * EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION EVAP CATION EVAP CATION EVAP / ORVR FAMILY EVAPORATIVE STD CATEGORY EVAP EMISSION STD VEHICLE CLASS SPECIAL FEATUR PTKXR0153GAQ LEV 3 OPTION2 WITH FEL LDT2 * EMISSION CREDIT INFORMATION EMISSION CREDIT INFORMATION OPTIONAL EXH. FOR WORK TRU NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY NMOG CREDIT FOR NON-PZEV ZERO-EVAP NMOG CREDIT FOR DOR OPTIONAL EXH. FOR WORK TRU N N N N N						TEST GRO	UP IN	FOR	MATION					
2023 PTRXT02.5EGC LDT2 VEHICLE GASOLINE USEFUL LIFE (miles) VEHICLE EMISSION CATEGORY INTERIM / INTERMEDIATE IN-USE EXH/ORVR EVAP FTP SFTP FTP SFTP 150000 150000 LEV3 ULEV70 LEV 3 COMPOSITE * PM SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS OBD STATUS ENGINE DISPLACE (L) 1 TWC, WU-TWC, HO2S, WR-HO2S, DFI, CAC, TC, EGR, EGRC FULL * * * * * PARTIAL ALL MODELS 2.5 * * * PARTIAL WITH FINES * * EVAP / ORVR FAMILY EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION SPECIAL FEATUR PTKXR0153GAQ LEV 3 OPTION2 WITH FEL LDT2 * EMISSION CREDIT INFORMATION EMISSION CREDIT FOR DOR VEHICLE CLASS OPTIONAL EXH.	-								FUEL C	ATEGORY		FUEL TYPE		
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NMOG AND FLEET AVERAGE INFORMATION		N N							N N					
	NMOG AND FLEET AVERAGE INFORMATION													
	NMOG CH4 NMOG/NMHC				-	PC+LDT (0-375		V) LDT	DT (3751 LVW-8500		MDV (10,001-14,000		
* * 1.10 * 0.044 0.047 *	*	*	1.10		*	0	.044			0.047		*		

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.)



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 $/2^{\ell}$ day of July 2022.

John Schi for

Robin U. Lang, Chief Emissions Certification and Compliance Division



FUEL TYPE

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

			NMOG (g/	i+NOx mi)	C (g/I	-		Ox mi)		CHO g/mi)	(9	PM g/mi)	
			CERT	STD	CERT STD C		CERT	STD	CERT	STD	CERT	STD	
FTP@50K	50K *		*	*	*	*	*	*	*	*	*	*	
FTP@UL	GASOLINE- LEV3 E10		0.052	0.070	0.6	1.7	*	*	*	4	0.001	0.003	
50°F @4K		SOLINE- V3 E10	0.031	0.140	0.3	1.7	*	*	*	16			
				FUEL TYP	-		NN	NMOG+NOx (g/mi)			CO (g/mi)		
				CE	RT	STD	CER	RT	STD				
HWFET @ 50K				*			*	r	*				
HWFET @ UL		GASOLINE-LEV3 E10						37	0.070				
20°F @ 50K		COLD (CO E10 RE	GULAR G	SOLINE	(TIER3)				0.!	5	12.5	

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

			3611	CARA		133101	ISTANDA	ARDS A		CERTIFIC		VELO			
				US06					SC03		C	OMPOSIT	E		
	FUEL TY	PE	N	IMOG+N (g/mi)		CO (g/mi)	Pl (mg/			DG+NOx g/mi)	CO (g/mi)	NMOG+NO (g/mi))x CO (g/m		
@ 4K	@4K *		RT	*		*			*		*				
•		ST	TD	*		*				*	*				
	CER		RT	*		*	* 1		*		*	0.055	1.1	*	
@ UL	GASOLIN LEV3 E1	S	TD	*		*	6	;		*	*	0.063	4.2	*	
		В	IN									0.120			
	WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS														
WHOLE VEHICLE EVAPORATIVE 1							IVE TEST	ING							
	EVAPORATIVE FAMILY		FUEL TYPE		PE 3DHS (g		g/test) @ UL			2DHS (g/test)		F	RL (g/mi) @		
				CEF	RT S	STD	FEL	CERI	Т	STD	FEL	CE	RL (g/mi) @ U RT S	STD	
PTKXR0153GAQ			DLINE- 3 E10	. 0.1	84 0	. 400	0.400	*		0.400	0.400	0.	00	0.05	
(ORVR / FUI	EL ONL	Y / CA	NISTER	BLEED) EVAP	ORATIVE	EMISS	SION	STANDA	RDS AND	CERTIFICA	TION LE	VELS	
								FUE	EL O	NLY EVA	P & CANIS	TER BLEE	D		
	ORATIVE	OR\	VR (g/g	gallon) @	0 UL	FUE	L TYPE			G TEST) @ UL		lig test) @ UL		CANISTER /test) @ 4K	
		FUEL	TYPE	CERT	STD			CER	T	STD	CERT	STD	CERT	STD	
PTKXI	R0153GAQ	GASOL TIER3		0.00	0.20		OLINE- 73 E10	*		*	*	*	0.008	0.020	



EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)										
EVAPORATIVE FAMILY LEAK FAMILY CERT STD										
PTKXR0153GAQ	PTKXR0153GAQ-001	*	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/liguefied natural gas; LPG; liguefied 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

2023 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
MAZDA	CX-9	LDT2	2.5	SA6	PTKXR0153GAQ	1	Р