

KIA MOTORS CORPORATION

Executive Order: A-314-0329

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: The following vehicles produced by the manufacturer are certified as plug-in hybrid electric vehicles pursuant to Title 13, California Code of Regulations (13 CCR) Sections 1961 or 1961.2, 1962.2, 1976, 1978 and the incorporated test procedures. Production vehicles shall be in all material respects the same as those for which certification is granted.

EXH/ORVR EVAP 150000 150000 150000 150000 1EV3 SULEV3 LEV 3 COMPOSITE PM PM PM PM SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS 1 DFI, WR-H02S, H02S, WU-TWC, TWC, EGR, EGRC * * * * * * * * * * * * * * * * * * *						TEST GR	OUP IN	IFOI	RMATION							
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* * 1.10 * 0.065 0.074 *	*	*	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).

day of April 2019.

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 18

Allen Lyons, Chief

Emissions Compliance, Automotive Regulations and Science Division



GASOLINE-

TIER3 E10

0.04

0.20

LKMXR0125D2G

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ATTACHMENT

	EX											CERTI				LS					
	,	FUEL		CH4 mon- adjus ORV	: methan oxide; No stment fa 'R [g HC	e; NMO Ox: oxide octor; 2D gallon d	G: non-(es of niti HS/3DH ispense	CH4 orga rogen; H0 IS [g HC/ d]: on-bo	nic ga CHO: f test]: 2 ard re	s; HC formal 2/3 da fueling	hydrocar dehyde; P ys diurnal y vapor red	(FTP, HWI bon; NMH(M: particul +hot-soak; covery; g: (ure; SFTP;	C: no ate r RL [gram	on-CH4 I matter; F g HC/mi ; mg: mi	HC; CO: RAF: rea]: runnir Iligram;	ctivi ng lo	ty ss;				
								1	MOG+N			со			NOx	1	HCH			PN	
				CE	(g/mi)	STD	CERT	g/mi) STC	+	CERT	g/mi) STD	CERT	ng/m	STD	CER	(g/m	STD				
FTP@5	0K	*			*	*	*	*	<u> </u>	*	*	*	+	*	*	+	*				
FTP@L	_	GASOLINE- TIER3 E10		1 0 1	016	0.030	0.3	1.0		*	* *		4		0.00	1	0.003				
50°F @4	1 K I	GASOI TIER		1 () (020	0.060	0.3	1.0		*	*	*	8								
					FU	EL TYP	F			NMOG+NOx (g/mi)				CO (g/m		mi)	ıi)				
										С	ERT STD			CER	T	;	STD				
HWFE	r @ 5	50K				*					*	*				Terminal in					
HWFE	Т@	UL		(GASOLIN	E-TIEF	R3 E10			0.009		0.030			× -						
20°F	@ 50	K	COI	LD CO E	10 REGU	LAR GA	SOLINE	E (TIER	3)					0.5	5	1	.0.0				
2 22				SFTI	EXHA			STANDA	RDS	AND		ATION LE	VEL								
		TVDE				US06			NING	SC03			COMPOSITE MOG+NOx CO PM								
FUEL T		EL TYI	IYPE		NMOG+NOx (g/mi)		CO PM (g/mi) (mg/m			NMOG+NOx (g/mi)				(g/mi)		ni)	PM (mg/mi				
@ 4K		*	CERT		*		*			*		*	*								
		ST		STD	*		*				*	*									
		A COT TARE		CERT		*		*	* 1		*		*		0.015	0.	2	*			
@ UL				STD	*		*	6	6		*	*	0.083		4.	2	*				
			BIN										0								
			WHO	OLE VEH	ICLE EV							ERTIFICA	OITA	N LEVE	LS						
EVAP		The second second	FL	JEL TYPI				HOLE VEHICLE EVAP			2DHS (g/test) @ UL			RL (g/n) @	UL				
FAMILY		Y	TOLL TIPE			CERT STD		FEL	CEI		STD	FEL		CERT			STD				
I T.KMYPO125D2C I		ASOLINE-	- 0 2		300	*		.158 0.30		*											
-	ORVE	R / FUE	EL O	NLY / CA	NISTER	BLEED	EVAPO	DRATIVE	EMIS	SION	STANDA	RDS AND	CE	RTIFICA	TION L	EVE	LS				
						**********			Fl	JEL C	NLY EVA	P & CANI	STE	R BLEE	D						
EVAP FA	ORA MIL			ORVR (g/	VR (g/gallon) @ UL					HS RIG TEST g/test) @ UL		2DHS (g/tes		a personal a			NISTER st) @ 4K				
			FU	EL TYPE	CERT	STD			CE	RT	STD	CERT		STD	CER		STD				



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EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)									
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD						
LKMXR0125D2G	LKMXR0125D2G-LP1	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: 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

MODEL NUMBER	MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
1	KIA	OPTIMA PLUG-IN HYBRID	PC	2.0	AM6	LKMXR0125D2G	1	P

ELECTRIC RANGE AND ZEV ALLOWANCE INFORMATION

MODEL	DUEY TYPE	UDDS AER	UDDS EAER US06 AER		∘ HIGHW	ZEV	
NUMBER	PHEV TYPE	(MILES)	(MILES)	(MILES)	AER	EAER	ALLOWANCE
1	TZEV	40.5	41.0	*	39.8	40.1	0.71