## California Environmental Protection Agency

**⊘** Air Resources Board

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Pursuant to the authority vested in the 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 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 I	NF	ORMATIC	ON							
MODE	_ 1   1	TEST GROUP				VEHICLE CLASS(ES)				FUEL CATEGORY			FUEL TYPE				
2018	3 JKMXV02.043T				PC					PLUG-IN HYBRID ELECTRIC VEHICLE				GASOLINE			
USEFUL LIFE (miles)						VEHICLE EMISSION CATEGORY				Y INTERIM / INTERM				RMEDIAT	MEDIATE IN-USE STD		
EXH/ORVR EVAP					FTP			SFTP			FTP				SFTP		
150000 150000					LE	V3 SULEV30	SULEV30 LEV 3 CO			SITE	*			*			
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS									(	OBD STATUS		us		ENGINE DISPLACEME (L)			
1 WR-HO2S, HO2S, WU-TWC, TWC, EGR, EGRC, DFI									FULI	L		*					
*	*								PARTI	AL	,	*			2.0		
*			*			Ī		RTIAL WITH ALL MODELS									
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION																	
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGO								RY EVAP EMISSION VEHICLE CLAS				SPECIAL FEATURES					
JKMXR012543G						LEV 2				PC			HCT				
	EMISSION CREDIT INFORMATION																
ALLOWANCE FOR TEST GROUP									NMOG CREDIT FOR   NMOG CREDIT FOR			OPTIONAL EXH. STD FOR WORK					
BASE	ELINE P	ZEV	AT	PZEV	TZEV			NON-PZEV ZERO			O-EVAP I		OOR		TRUCKS		
* * ALL MODELS								N N				И					
NMOG AND FLEET AVERAGE INFORMATION																	
NMOG RAF	NMOG/NMHC I				O/NMHC NMOG+NOX F PC+LDT (0-3 (g/m			3750 LVW)		NMOG+NOX FLEET S LDT (3751 LVW-8500 GVWR) + MDPV (g/m					(10,001-14,000		
* * 1.10 *						0	0.079			0.092			*				

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.

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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 NMOG+NOx and greenhouse gas Fleet Average (PC or LDT or MDPV) or "Vehicle Equivalent Credit" (MDV) compliance plan 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).

BE IT FURTHER RESOLVED: Evaporative family JKMXR012543G is certified pursuant to 13 CCR Section 1976(b)(1)(G)3 and deemed to comply with the requirements of 13 CCR Section 1976(b)(1)(G)1 ["LEV III evaporative requirements"].

# BE IT FURTHER RESOLVED:

The listed vehicle models are conditionally certified in accordance with 13 CCR Section 1968.2(k) (deficiency and fines provisions for certification of malfunction and diagnostic system) because the on-board diagnostic II (OBD) system of the listed vehicle models has been determined to have five deficiencies. The listed vehicle models are approved subject to the manufacturer paying a fine of \$75 per vehicle for the third through fifth deficiencies for each vehicle in the listed test group that is produced and delivered for sale in California.

On a quarterly basis, the manufacturer shall submit to the Air Resources Board reports of the number of vehicles produced and delivered for sale in California and pay the full fine owed for that quarter pursuant to this conditional certification. Payment shall be made payable to the State Treasurer for deposit in the Air Pollution Control Fund no later than thirty (30) days after the end of each calendar quarter during the 2018 model-year production period. Failure to pay the quarterly fine, in full, in the time provided, may be cause for the Executive Officer to rescind this conditional certification, effective from the start of the quarter in question, in which case all vehicles covered under this conditional certification for that quarter and all future quarters would be deemed uncertified and subject to a civil penalty of up to \$37,500 per vehicle pursuant to HSC Section 43154.

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

Annette Hebert, Chief

Èmissions Compliance, Automotive Regulations and Science Division

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							A	TTAC	НМ	ENT								
	EXH	US	TAND	EVA	POR	ATIVE	EMIS	SION	STAN	NDARI	OS ANI	CERT	FIC	ATION	LEVEL	S		
		EXH	AUST EI	MISSI	ON S	TANDA	RDS A	ND CER	TIFIC	ATION I	EVELS	(FTP, HW	FET,	50°F, 20	°F)			
	FUI	FUEL TYPE		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+NOx (g/mi)			CO (g/mi)			N (g		HCH mg/n	-		PM /mi)			
				CERT		STD	CERT	ST	D	CERT STD		CERT		STD	CERT	STD		
FTP@5	0K	*		*	_	*	*	*		*	*	*		*	*	*		
FTP@L	GASOLINE-			.014	0	.030	0.0	1.	0	*	*	*	4		*	0.01		
50°F @	EU E WAR		OLINE- 73 E10		0	.060	0.3	1.	0	*	*	*		8				
				:		-1	_			N	MOG+NO	Ox (g/mi)		'	CO (g/m	i)		
					FUEL TYPE				CE	CERT			CERT		STD			
HWFET @ 50K			-	*							*	*				70.		
HWFE	-	GASOLINE-LEV3 E10					0.002		0.030	0.030								
20°F	@ 50K		GAS	OLINE	-coi	D CO	LOW OC	TANE		3.				0.6		10.0		
			SF	TP EX	(HAL	ST EM	ISSION	STAND	ARDS	AND C	ERTIFIC	ATION LI	VEL	S				
						(	JS06				SC03			col	MPOSIT			
	FUEL T		a .	NMOG+NOx (g/mi)			CO (g/mi)	PM (mg/mi)		NMOG+NOx (g/mi)		CO (g/mi)	NMOG+NOx (g/mi)		CO (g/mi	PM (mg/mi)		
@ 4K	*	, CE		RT *			*			*		*	3/1	7-1				
@ 41X				*		*				*								
		CE		RT *			*		*	*		*	0	0.009	0.2	*		
@		OLINE- 73 E10 STE		D . *			*	*			*	*	0.097		4.2	*		
			BIN			- N				- 1		C		0.030				
		WH	IOLE VE	HICLE	E EV							ERTIFIC	ATIO	N LEVEL	S			
				-		WI	HOLE V	EHICLE	EVAF	PORATI	VE TEST	ING			/ / 1\ /	2111		
	ORATIV MILY	F	UEL TY	TYPE 3DHS (g				/test) @ UL			(g/test)	@ UL		KL	. (g/mi) (	y UL		
					STD FEL		CE	RT STD		FEI	CER		Т	STD .				
TRMXRITIONARCE		ASOLINI A PHASI		1 0 30 1 0		.35 *		0.	0.28 0.35		*	0.01			0.05			
C	RVR / F	UEL	ONLY / C	ANIS	TER	BLEED	EVAP	ORATIVI	E EMIS	SSION	STANDA	RDS AND	CEF	RTIFICAT	ION LEV	ELS		
										UEL ONLY EVAP & CANIST								
	EVAPORATIVE FAMILY		ORVR (	R (g/gallon) @		) UL	FUE	FUEL TYPE		DHS RIG TEST (g/test) @ UL		2DHS RIG (g/test) @				ANISTER test) @ 4K		
		_	JEL TYP	_	RT	STD	. (			ERT STD		CERT	CERT		CERT	STD		
JKMXR012543G		G	SOLINE TIER 2 NLEADEI	0.	0.02 0.20		GASOLINE - CA PHASE 2			.00 0.0		0.01		0.0	*	*		

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: 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; PZEV: partial ZEV; AT PZEV: advanced technology PZEV; 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: semiautomatic transmission; CV: continuously variable transmission; SCV: selectable continuously variable transmission; AM: automated manual transmission: AMS: automated manual-selectable transmission: OT: other transmission

## 2018 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE
KIA	OPTIMA PLUG-IN HYBRID	PC	2.0	AM6	JKMXR012543G	1	\$	TZEV