

Pursuant to the authority vested in California Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapters 1 and 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: That the following new large spark-ignition engines and emission control systems produced by the manufacturer are certified for use in off-road equipment as described below. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY NAME	ENGINE DISPLACEMENT (liters)	FUEL TYPE		
2018	JKEMB04.3CS2	4.3	CNG, LPG		
DURABILIT HOURS		IAL FEATURES & I CONTROL SYSTEMS	TYPICAL EQUIPMENT USAGE		
5000		ay Catalytic Converter, ed Oxygen Sensor	Generator, Sweeper, Pump and Other Industrial Equipment		
	SINE MODELS wer in kilowatt, kW)	See Attachment			

The following are the hydrocarbon plus oxides of nitrogen (HC+NOx) and carbon monoxide (CO) exhaust certification emission standards (Title 13, California Code of Regulations, (13 CCR) Section 2433(b)(1)) and certification emission levels for this engine family in grams per kilowatt-hour (g/kW-hr). Engines within this engine family shall have closed crankcases in conformance with 13 CCR Section 2433(b)(3).

(g/kW-hr)	HC+NOx	со		
Exhaust Standards	0.8	20.6		
Certification Levels	0.4	0.3		

The following is the evaporative hydrocarbon emission standard (13 CCR Section 2433(b)(4)) and certification emission level for this engine family in grams per gallon of fuel tank capacity (g/gallon).

Evaporative Certification Method	HC Certification Level (g/gallon)	HC Certification Standard (g/gallon)		
Design Based	N/A	0.2		

BE IT FURTHER RESOLVED: That for the listed engines for the aforementioned model-year, the manufacturer has submitted, and the Executive Officer hereby approves, the information and materials to demonstrate certification compliance with 13 CCR Section 2433(c) (certification and test procedures), 13 CCR Section 2434 (emission control labels), and 13 CCR Sections 2435 and 2436 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this _____ day of February 2018.

Annette Hebert, Chief

Annette Hebert, Chief Emissions Compliance, Automotive Regulations and Science Division

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Model Year: 2018 Manufacturer Name: KEM EQUIPMENT, INC Engine Family: JKEMB04.3CS2 OFF-ROAD LSI ENGINE SUPPLEMENTAL INFORMATION

Page: Page 5 of 15 Issued: 11/06/2017 Revised:

11-1-013-0112-

S12. MODEL SUMMARY (Use an asterisk (*) to identify worst-case engine model used for certification testing.)

040	014		045		040	047	040	040	
S13.	S14.	e.	S15.	00	S16.	S17.	S18.	S19.	S20.
	-	Sales Codes (Check ALL		Eng.	Rated	Rated	Peak	Peak	
Engine Model	Engine		propriat		Displ.	Power	Speed	Torque	Torque
	Code				(Liters)	(kW)	(RPM)	(N-m)	Speed
		Calif.	49-	50-	(choro)	()	()		(RPM)
		Only	State	State					· · ·
						70 7	0050		
14S-643-NG	4.3L CN1			Х	4.3L	78.7	2650	286	1500
14S-643-LP	4.3L CP1			Х	4.3L	88.4	2650	318	2650
						,			