

KEM EQUIPMENT, INC./ KODIAK MARINE

EXECUTIVE ORDER U-L-013-0129 New Off-Road Large Spark-Ignition Engines Above 19 Kilowatts

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-19-095;

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		
2020	LKEMB08.0ULE	8.0	LPG		
DURABILITY HOURS		IAL FEATURES & I CONTROL SYSTEMS	TYPICAL EQUIPMENT USAGE		
5000 Heate		ay Catalytic Converter, ed Oxygen Sensor, Multiport Fuel Injection	Forklift, Aerial Lift, Generator and Sweeper		
	INE MODELS ver 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	2.8		

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.

Kim Pryor

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 31 th day of December 2019.

Allen Lyons, Chief

Emissions Certification and Compliance Division

ATTACHNENT PS/OF/

Model Year:

2020

Manufacturer Name: KEM EQUIPMENT, INC./KODIAK MARINE

Page: Page 5 of 13 Issued: 12/05/2019

Engine Family: LKEMB08.0ULE

OFF-ROAD LSI ENGINE SUPPLEMENTAL INFORMATION

Revised:

U-L-013-0129

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

S13.	S14.	S15. Sales Codes		S16.	S17.	S18.	S19.	S20.	
Engine Model	Engine Code	(Check ALL appropriate)		Eng. Rated Power (kW)	Rated Speed (RPM)	Peak Torque (N-m)	Peak Torque Speed		
		Calif. Only	49- State	50- State	(= ====,	, ,		,	Speed (RPM)
8.0-LP-DYNO	8.0-LP- DYNO			Х	8.0	183.8	2650	699.6	1700
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