KOHLER COMPANY

EXECUTIVE ORDER U-L-021-0077 New Off-Road Large Spark-Ignition Engines Above 19 Kilowatts

Pursuant to the authority vested in the 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	E	ENGINE FAMILY	DISPLACEMENT (liters)	ENGIN	E CLASS	FUEL TYPE	
2021		MKHXB.8242KG	824	<u><</u> 8	25 cc	Gasoline	
DURABILITY HOURS		SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		TYPICAL EQUIPMENT USAGE			
1000		Multiport Fuel Injection, Heated Oxygen Sensor			Tractor and Other		
ENGINE MODELS (rated power 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).

	HC+NOx (g/kW-hr)	CO (g/kW-hr)
STANDARD	8.0	549
CERTIFICATION LEVEL	7.4	318

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(d) (certification and test procedures), 13 CCR Section 2404 (emission control labels), and 13 CCR Sections 2405 and 2406 (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 on this 16th day of November 2020.

A**ll**en∕Lyons, Chief

Emissions Certification and Compliance Division

LSIE Exhaust Model Summary Template (rev. 2020)

For CARB Use Only
Executive Order: U-L-021-0077
Attachment _1_of_1_

Date: <u>11/10/2020</u> Engine Family: <u>MKHXB.8242KG</u> $Model\,Summary\,(Use\,\,an\,\,asterisk\,(^*)\,to\,identify\,worst-case\,\,engine\,\,model\,\,used\,\,for\,\,certification\,\,testing,)$

S18. S20.
Rated Speed (RPM) Peak Torque (FT-LB) Peak Torque Speed (RPM) 3200 2800 2800 2400 2400 64.7 64.0 64.0 62.5 62.4 3600 3600 3600 3600 3600 S17. Rated Power (kW) 24.0 23.9 23.9 22.5 22.0 S16.

Engine Displacement (Liters) 0.824 0.824 0.824 0.824 0.824 Sales Codes (Check all appropriate)

nly 49-State 50-State CA Only S4. Engine Code S13. Engine Model ECV880 ECV870 *ECV860J ECV860