

KAWASAKI HEAVY INDUSTRIES, LTD.

EXECUTIVE ORDER U-L-036-0021 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 DISPLACEMENT (liters)	FUEL TYPE			
2020	L	KAXB.8242IB	0.824	Gasoline			
DURABILITY HOURS		SPEC	AL FEATURES & CONTROL SYSTEMS	TYPICAL EQUIPMENT USAGE			
1000		Multip	oort Fuel Injection	Aerial Lift, Generator, Tractor/Tug			
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).

(g/kW-hr)	HC+NOx	со	
Standards	8.0	549	
Certification Levels	6.1	284	

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 at El Monte, California on this 1777 day of December 2019.

Allen Loons, Chief

Emissions Certification and Compliance Division

Attachment 1 of 1

Model Year:	2020	Page:
Manufacturer Nan	ne: KAWASAKI HEAVY INDUSTRIES, LTD	Issued:
Engine Family: L	KAXB.8242IB	Revised:
OFF-ROAD LSI EI	IGINE SUPPLEMENTAL INFORMATION	E.O.#: 1)-1-036-0021

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

S13.	S14.	Sa	S15.	AS	S16.	S17.	S18.	S19.	S20.
Engine Model	Engine Sales Codes (Check ALL appropriate)		_L	Eng. Displ. (Liters)	Rated Power (kW)	Rated Speed (RPM)	Peak Torque (FT-LB)	Peak Torque Speed	
		Calif. Only	49- State	50- State					Speed (RPM)
FD851D	FD851D			х	0.824	20.3	3600	58.4	2800
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