

## **KUBOTA CORPORATION**

EXECUTIVE ORDER U-L-016-0137 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	ENGINE FAMILY		DISPLACEMENT (liters)	ENGINE CLASS		FUEL TYPE		
2021		MKBXB.9622KH	0.962	> 825 cc - ≤ 1.0 liter		Gasoline, LPG, CNG, Gasoline-LPG Dual Fuel, Gasoline-CNG Dual Fuel		
DURABILI HOURS		SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT USAGE			
1000		Heated Multi	ay Catalytic Converter, Oxygen Sensors (2), port Fuel Injection, Fuel Mixer (LPG, CNG)		Aerial Lift, Sweeper, Generator			
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	0.8	20.6		
CERTIFICATION LEVEL	0.4	6.1		

**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 9th day of December 2020.

Allen Lyons, Chief

**Emissions Certification and Compliance Division** 

For CARB Use Only

Executive Order: U-L-016-0137

Attachment \_\_1\_ of \_\_1\_\_

Date:

Engine Family: MKBXB.9622KH

## Model Summary

S13. Engine Model (Use an asterisk (*) to identify worst-case engine model used for	S14. Engine Code	S15. Sales Codes (Check all appropriate)		S16. Engine Displacement	S17. Rated Power (kW)	S18. Rated Speed (RPM)	S19. Peak Torque (FT- LB)	S20. Peak Torque Speed (RPM)	
certification testing.)		CA Only	49-State	50-State	(Liters)				
WG972-G-EF*	WG972-G-EF01			X	0.963	23.10	3600	50.60	2400
WG972-GL-EF	WG972-GL-EF01			Χ	0.963	22.10	3600	49.12	2400
WG972-GN-EF	WG972-GN-EF01			Χ	0.963	22.10	3600	49.12	2400
WG972-L-EF	WG972-L-EF01			Х	0.963	20.40	3600	49.79	2000
WG972-N-EF	WG972-N-EF01			Χ	0.963	19.00	3600	46.54	2000