CALIFORNIA AIR RESOURCES BOARD	KUBOTA CORPORATION	EXECUTIVE ORDER U-L-016-0170 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	FUEL TYPE
2024	RKBXB02.5HFA	Gasoline, Liquefied Petroleum Gas (LPG), Compressed Natural Gas (CNG), Gasoline-Liquefied Petroleum Gas Dual Fuel, Liquefied Petroleum Gas-Compressed Natural Gas Dual Fuel, Gasoline-Liquefied Petroleum Gas-Compressed Natural Gas Multi Fuel
DURABILITY HOURS	**EMISSION CONTROL SYSTEMS & SPECIAL FEATURES**	**EQUIPMENT APPLICATION**
5000	Three-Way Catalytic Converter (TWC), Heated Oxygen Sensors (HO2S) (2), Multiport Fuel Injection (MFI), Gaseous Fuel Mixer (MIX)	Forklift, Aerial Lift, Sweeper, Compressor, Tractor/Tug

Engines certified by this Executive Order are further described in 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)
EXHAUST STANDARD	0.8	20.6
CERTIFICATION LEVEL	0.4	6.7

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

*not applicable

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 on this 15th day of December 2023.

Robin U. Lang

Robin U. Lang, Chief
Emissions Certification and Compliance Division

LSIE Exhaust Model Summary Template (rev. Aug 2021)

For CARB Use Only
Executive Order: U-L-016-0170
Attachment __1__of__1__

Date: _____
Engine Family: RKBXB02.5HFA

Model Summary
(Use an asterisk (*) to identify worst-case engine model used for certification testing.)

		S15. Sales Codes (Check all appropriate)							
S13. Engine Model	S14. Engine Code	CA Only	49-State	50-State	S16. Engine Displacement (Liters)	S17. Rated Power (kW)	S18. Rated Speed (RPM)	S19. Peak Torque (FT-LB)	S20. Peak Torque Speed (RPM)
WG2503-G-ET	WG2503-G-ET01			X	2.491	43.10	2700	168.1	1800
WG2503-G-ET	WG2503-G-ET01L			X	2.491	43.10	2700	168.1	1800
WG2503-GL-ET	WG2503-GL-ET01			X	2.491	43.80	2700	172.4	1400
WG2503-GL-ET	WG2503-GL-ET01L			X	2.491	43.80	2700	172.4	1400
WG2503-GLN-ET*	WG2503-GLN-ET01			X	2.491	43.80	2700	172.4	1400
WG2503-GLN-ET	WG2503-GLN-ET01L			X	2.491	43.80	2700	172.4	1400
WG2503-L-ET	WG2503-L-ET01			X	2.491	43.80	2700	172.4	1400
WG2503-L-ET	WG2503-L-ET01L			X	2.491	43.80	2700	172.4	1400
WG2503-LN-ET	WG2503-LN-ET01			X	2.491	43.80	2700	172.4	1400
WG2503-LN-ET	WG2503-LN-ET01L			X	2.491	43.80	2700	172.4	1400
WG2503-N-ET	WG2503-N-ET01			X	2.491	40.70	2700	161.6	1200
WG2503-N-ET	WG2503-N-ET01L			X	2.491	40.70	2700	161.6	1200