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)	FUEL TYPE			
2021	MKBXB02.5GFA	2.5	Gasoline, LPG, CNG, Gasoline-LPG Dual Fuel, LPG-CNG Dual Fuel, Gasoline-LPG-CNG Multi Fuel			
DURABILITY HOURS		IAL FEATURES & I CONTROL SYSTEMS	TYPICAL EQUIPMENT USAGE			
5000	Heated Multiport F	ay Catalytic Converter, Oxygen Sensor (2), uel Injection (Gasoline), Fuel Mixer (LPG, CNG)	Forklift, Aerial Lift, Sweeper, Tractor/Tug, Pump, Generator			
	NE MODELS er 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)		
EXHAUST STANDARD	0.8	20.6		
CERTIFICATION LEVEL	0.1	3.7		

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			

**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 6th day of December 2020.

Allen Lyons, Chief Emissions Certification and Compliance Division

## Date:

Engine Family: MKBXB02.5GFA

Model Summary

For CARB Use Only Executive Order: U-L-016-0141 Attachment \_1\_ of \_1\_

\$13.	S14. Engine Code	S15. Sales Codes (Check all		S16. Engine	S17. Rated Power (kW)	S18. Rated Speed	S19. Peak Torque (FT-	S20. Peak Torque	
Engine Model (Use an asterisk (*) to identify									
worst-case engine model used for			appropriate)		Displacement (Liters)		(RPM)	LB)	Speed (RPM)
certification testing.)		CA Only	49-State	50-State	(LILEIS)				
WG2503-G-ET	WG2503-G-ET01			Х	2.491	43.90	2700	123.10	1800
WG2503-G-ET01L	WG2503-G-ET01L			Х	2.491	43.90	2700	123.10	1800
WG2503-GL-ET	WG2503-GL-ET01			Х	2.491	44.50	2700	129.44	1800
WG2503-GL-ET01L	WG2503-GL-ET01L			Х	2.491	44.50	2700	129.44	1800
WG2503-GLN-ET*	WG2503-GLN-ET01			Х	2.491	44.50	2700	129.44	1800
WG2503-GLN-ET01L	WG2503-GLN-ET01L			Х	2.491	44.50	2700	129.44	1800
WG2503-L-ET	WG2503-L-ET01			Х	2.491	44.50	2700	129.44	1800
WG2503-L-ET01L	WG2503-L-ET01L			Х	2.491	44.50	2700	129.44	1800
WG2503-LN-ET	WG2503-LN-ET01			Х	2.491	44.50	2700	129.44	1800
WG2503-LN-ET01L	WG2503-LN-ET01L			Х	2.491	44.50	2700	129.44	1800
WG2503-N-ET	WG2503-N-ET01			Х	2.491	41.00	2700	116.68	1800
WG2503-N-ET01L	WG2503-N-ET01L			Х	2.491	41.00	2700	116.68	1800