

KUBOTA CORPORATION

EXECUTIVE ORDER U-L-016-0151

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.

ENGINE DESCRIPTION								
MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE					
2022	NKBXB01.5QFA	1.5	Gasoline					
DURABILITY SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT USAGE					
5000	Heated	ay Catalytic Converter, Oxygen Sensors (2), port Fuel Injection	Other					
ENGINE MODELS (rated power in kilowatt, kW)			See Attachment					
MODEL YEAR	MANUFACTUR	RER	EVAPORATIVE FAMILY (E.O. NUMBER)					
2022	THE TORO COMPANY		L4XCONCM (U-L-048-0022)					

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	0.2	3.5		

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 /Oth day of January 2022.

Allen Lyons, Chief

Emissions Certification and Compliance Division

LSIE Exhaust Model Summary Template (rev. Aug 2021)	For CARB Use Only Executive Order: U-L-016-0151
Date:	Attachment1of1
Engine Family: NKBXB01.5QFA	

 $\label{thm:continuous} \mbox{Model Summary} \mbox{ (Use an asterisk (*) to identify worst-case engine model used for certification testing.)}$

		S15. Sales Codes (Check all appropriate) CA Only 49-State 50-State							
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)
WG1605-G-ET*	WG1605-G-ET51			X	1.537	40.48	3600	113.4	2700