

KUBOTA CORPORATION

EXECUTIVE ORDER U-L-016-0130 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 NAME	ENGINE DISPLACEMENT (liters)	FUEL TYPE		
2020	LKBXB01.5PFA	1.5	Gasoline, LPG, CNG, Gasoline-LPG Dual Fuel, LPG-CNG Dual Fuel, Gasoline-LPG-CNG Multi-Fuel		
DURABILITY HOURS	Y SPEC	IAL FEATURES & I CONTROL SYSTEMS	TYPICAL EQUIPMENT USAGE		
5000 Heated Multiport Fu Gaseous F		ay Catalytic Converter, Oxygen Sensor (2), uel Injection (Gasoline), Fuel Mixer (LPG, CNG)	Aerial Lift, Generator, Sweeper, 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		
Exhaust Standards	0.8	20.6		
Certification Levels	0.2	6.5		

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 at El Monte, California on this // 14 day of December 2019.

Allen Lygas, Chief

Emissions Certification and Compliance Division

Attachment 1 of 1

 Model Year:
 2020
 Page:
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 Manufacturer Name:
 KUBOTA Corporetion
 Issued:

 Engine Family:
 LKBXB01.5PFA
 Revised:

 OFF-ROAD LSI ENGINE SUPPLEMENTAL INFORMATION
 E.O.#:
 M - b - 0.b - 1.3

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

12. MODEL SUMMART		(Use an ast	erisk (*) to ic	entity worst	-case engine	model used	for certifica	tion testing.)	
S13.	S14.		S15.		S16.	S 17.	S18.	S19.	S20.
Engine Modei	Engine Cod	Sales Codes (Check ALL appropriate)		Eng. Displ.	Rated Power	Rated Speed	Peak Torque	Peak Torque Speed	
		Calif. Only	49-State	50-State	(Liters)	(kW)	(RPM)	(N.M)	(RPM)
WG1605-G- ET	WG1605- G-ET01			Х	1.537	40.48	3600	113.40	2700
WG1605-GL- ET	WG1605- GL-ET01			Х	1.537	40.48	3600	113.40	2700
WG1605- GLN-ET*	WG1605- GLN- ET01			Х	1.537	40.48	3600	113.40	2700
WG1605-L- ET	WG1605- L-ET01			Х	1.537	38.05	3600	110.00	2550
WG1605-LN- ET	WG1605- LN-ET01			Х	1.537	38.05	3600	110.00	2550
WG1605-N- ET	WG1605- N-ET01			Х	1.537	35.30	3600	100.70	2600
		-							

WG1605-G-ET	is for Gasoline
WG1605-GL-ET	is for Gasoline and LPG
	is for Gasoline and LPG and NG
WG1605-L-ET	is for LPG
WG1605-LN-ET	is for LPG and NG
WG1605-N-ET	is for NG