

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-14-012;

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	
2019	KKBXB01.5CFA	1.5	Gasoline, LPG, NG, Gasoline-LPG Dual Fuel, LPG-NG Dual Fuel, Gasoline-LPG-NG Multi Fuel	
DURABILITY HOURS	SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		TYPICAL EQUIPMENT USAGE	
5000 Heated Öx Multipor		ay Catalytic Converter, Oxygen Sensor (2), port Fuel Injection	Forklift, Sweeper, Tractor/Tug, Generator, Pump	
ENGINE MODELS (rated power in kilowatt, kW)			e 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	0.3	2.9	

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 *b* day of November 2018.

Annette Hebert, Chief Emissions Compliance, Automotive Regulations and Science Division

Allachment 1 of

Model Year: 2019

Manufacturer Name: <u>KUBOTA Corporation</u> Engine Family: <u>KKBXB01,5CFA</u> OFF-ROAD LSI ENGINE SUPPLEMENTAL INFORMATION

Page:	6	
Issued:		
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E.O.#:	1-L-016-	0120

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

2. MODEL SUMMART		(Use an as	tensk (*) to id	aentity worst	-case engine		for certificat	tion testing.)	
S13.	S14.		S15.		S16.	S17.	S18.	S19.	S20.
Engine Model	Engine Code	Sales Codes (Check ALL appropriate)		Eng. Displ.	Rated Power (kW)	Rated Speed	Peak Torque	Peak Torque Speed	
		Only	49-State	50-State	(Liters)	(KVV)	(RPM)	(N.M)	(RPM)
WG1605-G- ET	WG1605- G-ET01			х	1.537	39.20	3600	108.40	2160
WG1605-GL- ET	GL-ET01			х	1.537	39.20	3600	108.40	2160
WG1605- GLN-ET*	WG1605- GLN- ET01			x	1.537	39.20	3600	108.40	2160
WG1605-L- ET	WG1605- L-ET01			х	1.537	35.60	3600	104.50	2160
WG1605-LN- ET	WG1605- LN-ET01			х	1.537	35.60	3600	104.50	2160
WG1605-N- ET	WG1605- N-ET01			x	1.537	35.30	3600	96.90	2160

WG1605-G-ET	is for Gasoline
WG1605-GL-ET	is for Gasoline and LPG
WG1605-GLN-ET	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
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