

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	KKBXB03.8CFA	3.8	Gasoline, LPG, NG, Gasoline-LPG Dual Fuel, LPG-NG Dual Fuel
DURABILITY HOURS		IAL FEATURES & CONTROL SYSTEMS	TYPICAL EQUIPMENT USAGE
5000	Three-Way Catalytic Converter, Heated Oxygen Sensor (2), Gaseous Fuel Mixer, Multiport Fuel Injection		Forklift, Aerial Lift, Generator, Sweeper, Pump, 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	0.4	5.4

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 _____

_ day of November 2018.

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

1 of 1 Attachment

Model Year: 2019

Manufacturer Name: KUBOTA Corporation

Engine Family: KKBXB03.8CFA

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OFF-ROAD LSI ENGINE SUPPLEMENTAL INFORMATION

S12. MODEL SUMMARY (Use an asterisk (*) to identify worst-case engine model used for certification testing.) S13. S14. S15. S16. S17. S18. S19. S20. Sales Codes Peak Eng. Rated Rated Peak Engine Engine (Check ALL appropriate) Torque Displ. Power Torque Speed Model Cod Speed Calif. (Liters) (kW) (RPM) (N.M) 49-State 50-State (RPM) Only WG3800-G-WG3800-Х 3.77 58.04 2600 256.73 1100 ET G-ET01 WG3800-GL-WG3800-3.77 60.70 2600 271.00 Х 1200 ET GL-ET01 WG3800-L-WG3800-Х 3.77 62.63 2600 275.77 1200 ET* L-ET01 WG3800-L-WG3800-Х 62.63 2600 275.77 1200 3.77 EW L-EW01 WG3800-LN-WG3800-Х 1200 3.77 62.63 2600 275.77 ET LN-ET01 WG3800-N-WG3800-Х 3.77 54.31 2600 221.01 1400 ET N-ET01 WG3800-N-WG3800х 54.31 2600 221.01 1400 3.77 EW N-EW01

WG3800-G-ET	is for Gasoline
WG3800-GL-ET	is for Gasoline and LPG
WG3800-L-ET	is for LPG
WG3800-L-EW	is for LPG
WG3800-LN-ET	is for LPG and NG
WG3800-N-ET	is for NG
WG3800-N-EW	is for NG