

KUBOTA Corporation

EXECUTIVE ORDER U-R-025-0803 New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in California Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. 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	USEFUL LIFE (hours)			
2019	KKBXL02.4G3D	1.826, 2.435	Diesel	5000			
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION				
Electronic Electronic	c Direct Injection, Exhaus Control Module, Periodic Oxidation Cataly	Trap Oxidizer, Diesel	Loader, Tractor, Pump, Compressor, Other Industrial Equipment				

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED	EMISSION		EXHAUST (g/kw-hr)					OPACITY (%)		
POWER CLASS	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	co	РМ	ACCEL	LUG	PEAK
19 <u><</u> kW < 37	Tier 4 Final	STD	N/A	N/A	4.7	5.5	0.03	N/A	N/A	N/A
		CERT			3.8	0.1	0.001			

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (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 August 2018.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

Engine Model Summary Form

Attachment page 1 of 1

E0#0-R-025-0803 Date: 7/23/2018

ufacturer:

KUBOTA Corporation

ne category:

Nonroad Cl

KKBXL02.4G3D Engine Family:

Family Name:

N/A

ess Code:

New Submission

Engine Code	2.Engine Model	(SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only) 32.3	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930		
803-CR-EW51	D1803-CR-EW				84.2@1600	36.7	9.8	EM, DFI, EGR, ECM, PTOX, DOC		
803-CR-EW52	D1803-CR-EW	33.0@2400	32.6	13.1	84.2@1500	36.7	9.2	EM, DFI, EGR, ECM, PTOX, DOC		
803-CR-EW53	D1803-CR-EW	30.4@2200	32.5	12.0	84.2@1500	36.7	9.2	EM, DFI, EGR, ECM, PTOX, DOC		
403-CR-EW51	V2403-CR-EW	48.3@2700	31.8	19.2	126.1@1600	40.5	14.5	EM, DFI, EGR, ECM, PTOX, DOC		
403-CR-EW52	V2403-CR-EW	48.3@2600	31.9	18.5	116.1@1600	38.1	13.6	EM, DFI, EGR, ECM, PTOX, DOC		
403-CR-EW53	V2403-CR-EW	45.1@2400	32.5	17.4	116.1@1500	38.5	12.9	EM, DFI, EGR, EÇM, PTOX, DOC		
103-CR-EW53L	V2403-CR-EW	45.1@2400	32.5	17.4	116.1@1500	38.5	12.9	EM, DFI, EGR, ECM, PTOX, DOC		
403-CR-EW54	V2403-CR-EW	41.2@2200	32.2	15.8	116.1@1500	38.5	12.9	EM, DFI, EGR, ECM, PTOX, DOC		

TOO OIL ETTOOL	V2-100-01(-LVV	75.1622400	52.5	17.4	110.1@1500	30.3	12.9	EIVI, DEI	EGR, ECM, PTOX, DOC
403-CR-EW54	V2403-CR-EW	41.2@2200	32.2	15.8	116.1@1500	38.5	12.9	EM, DFI	EGR, ECM, PTOX, DOC
* tes	ted engil	re					DHI:	= Direct	Fuel Injectio
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