

## **KUBOTA Corporation**

EXECUTIVE ORDER U-R-025-0904 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-19-095;

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)		
2020	LKBXL06.1AMD	6.124	Diesel	8000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Electronic Direct Injection, Turbocharger, Exhaust Gas Recirculation, Charge Air Cooler, Electronic Control Module, Periodic Trap Oxidizer, Diesel Oxidation Catalyst, Selective Catalytic Reduction – Urea, Ammonia Oxidation Catalyst			Tractor			

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 STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
POWER			NMHC	NOx	NMHC+NOx	СО	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 4 Final	STD	0.19	0.40	N/A	5.0	0.02	N/A	N/A	N/A
		CERT	0.02	0.17		0.02	0.002	-		

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

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Allen Lyons, Chief

Emissions Certification and Compliance Division

day of September 2019.

## **Engine Model Summary Form**

EO#U-R-025-0904

**KUBOTA Corporation** Manufacturer: Engine category:

Nonroad CI

EPA Engine Family: LKBXL06.1AMD

Mfr Family Name:

N/A

**New Submission** Process Code:

Attachment page 1 of 1

Date: 8/19/2019

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: rmm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
V6108-CR-TI-EV01	V6108-CR-TI-EV	173.0@2200	135.5	66.6	524.4@1200	162.0	43.5	EM, DFI, TC, EGR, CAC, ECM, PTOX, DOC, SCR, AMOX
V6108-CR-TI-EV02	V6108-CR-TI-EV	168.2@2200	131.8	64.8	508.9@1200	157.0	42.1	EM, DF), TC, EGR, CAC, ECM, PTOX, DOC, SCR, AMOX
V6108-CR-TI-EV03	V6108-CR-TI-EV	148.3@2200	116.7	57.4	447.7@1200	137.0	36.8	EM, DFI, TC, EGR, CAC, ECM, PTOX, DOC, SCR, AMOX
V6108-CR-TI-EV04	V6108-CR-TI-EV	141.5@2200	111.5	54.8	432.3@1500	136.0	45.6	EM, DFI, TC, EGR, CAC, ECM, PTOX, DOC, SCR, AMOX
V6108-CR-TI-EV05	V6108-CR-TI-EV	131.6@2200	104.5	51.4	401.3@1500	125.0	41.9	EM, DFI, TC, EGR, CAC, ECM, PTOX, DOC, SCR, AMOX
V6108-CR-TI-EV06	V6108-CR-TI-EV	173.0@1900	124.8	53.0	524.4@1500	153.0	51.3	EM, DFI, TC, EGR, CAC, ECM, PTOX, DOC, SCR, AMOX
V6108-CR-TI-EV07	V6108-CR-TI-EV	167.6@1900	116.7	49.6	508.2@1500	148.4	49.8	EM, DFI, TC, EGR, CAC, ECM, PTOX, DOC, SCR, AMOX
V6108-CR-TI-EV08	V6108-CR-TI-EV	147.9@1900	105.9	45.0	442.5@1500	129.0	43.3	EM, DFI, TC, EGR, CAC, ECM, PTOX, DOC, SCR, AMOX