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	KKBXL01.3DCB	1.261	Diesel	3000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
	Indirect Diesel Inje	ction	Tractor, Compressor, Generator Other Industrial Equipmen			

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 CLASS			NMHC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
8 <u>≤</u> kW < 19	Tier 4 Final	STD	N/A	N/A	7.5	6.6	0.40	20	15	50
		CERT			6.0	1.4	0.16	2	2	3

**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 October 2018. Annette Hebert, Chief Emissions Compliance, Automotive Regulations and Science Division

## **Engine Model Summary Form**

Attachment

page 1 of 1

E0#U-R-025-0818 Date: 10/10/2018

 Manufacturer:
 KUBOTA Corporation

 Engine category:
 Nonroad Cl

 EPA Engine Family:
 KKBXL01.3DCB

 Mfr Family Name:
 N/A

 Process Code:
 New Submission

4. Fuel Rate: 5. Fuel Rate: 7.Fuel Rate: 8. Fuel Rate: 3.BHP@RPM 6. Torque @ RPM 9. Emission Control 1.Engine Code 2.Engine Model (lbs/hr) @ peak HP mm/stroke @ peak HP mm/stroke@peak (lbs/hr)@peak (SAE Gross) (SEA Gross) Device Per SAE J1930 (for diesel only) (for diesels only) torque torque C1.3-EF04 C1.3-EF 24.4@2400 26.5 10.7 59.1@1600 28.5 7.6 EM, IFI D1305-EF01 D1305-EF 24.4@2600 24.1 10.5 66.6@1600 30.5 8.2 EM, IFI 24.4@2500 D1305-EF02 D1305-EF 25.0 10.5 61.1@1600 30.0 8.0 EM, IFI D1305-EF03 D1305-EF 24.4@2600 24.1 10.5 58.2@1700 27.3 7.8 EM, IFI D1305-EF 24.1 D1305-EF03e 24.4@2600 10.5 58.2@1700 27.3 7.8 EM. IFI D1305-EF04 D1305-EF 24.4@2400 26.5 10.7 59.1@1600 28.5 7.6 EM, IFI D1305-EF04e D1305-EF 24.4@2400 26.5 10.7 28.5 7.6 59.1@1600 EM, IFI