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) 3000		
2020	LKBXL02.23CB	2.216	Diesel			
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
	Mechanical Direct Ir	ijection	Transport Refrigeration Unit			

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 POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)				OPACITY (%)			
			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			6.9	2.1	0.24	2	3	4

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

28 - day of May 2019.

Allen Lyons, Chief

LEmissions Compliance, Automotive Regulations and Science Division

Engine Model Summary Form

Manufacturer:

Engine category:

Mfr Family Name:

V2203L-DI-EF01

V2203L-DI-EF01e

Process Code:

EO# U-R-025-0849

Date: 5/16/2019 **KUBOTA** Corporation Attachment page 1 of 1 Nonroad Cl EPA Engine Family: LKBXL02.23CB N/A **New Submission** 4. Fuel Rate: 5. Fuel Rate: 7.Fuel Rate: 8. Fuel Rate: 6. Torque @ RPM 9. Emission Control 3.BHP@RPM 1.Engine Code 2.Engine Model mm/stroke @ peak HP (lbs/hr) @ peak HP mm/stroke@peak (lbs/hr)@peak (SAE Gross) (SEA Gross) Device Per SAE J1930 (for diesel only) (for diesels only) torque torque 23.7 82.2@1350 EM, DFI 24.4@1800 9.5 26.6 8.0 V2203L-DI-EF 82.2@1350 V2203L-DI-EF 24.4@1800 23.7 9.5 26.6 8.0 EM, DFI