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) 8000		
2019	KKBXL03.8C1D	3.770	Diesel			
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Recirculati	Direct Injection, Turboc on, Electronic Control M Oxidizer, Diesel Oxidatio	lodule, Periodic Trap	Tractor, Forklift, Roller, Sweeper			

The engine models and codes are attached.

CALIFORNIA

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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	co	PM	ACCEL	LUG	PEAK
37 <u>≤</u> kW < 56	Tier 4 Final	STD	N/A	N/A	4.7	5.0	0.03	N/A	N/A	N/A
		CERT	-	0	3.1	0.04	0.000		-	-

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 0+ 1

E0#U-R-025-0806 Date: 11/1/2018

Manufacturer: **KUBOTA** Corporation **Nonroad CI** Engine category: EPA Engine Family: KKBXL03.8C1D N/A Mfr Family Name: Process Code: **Running Change**

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 mm/stroke @ peak HP (lbs/hr) @ peak HP mm/stroke@peak (lbs/hr)@peak Device Per SAE J1930 (SAE Gross) (SEA Gross) (for diesel only) (for diesels only) torque torque 58.0 225.3@1500 71.3 23.9 EM, DFI, TC, EGR, ECM, PTOX, DOC D3.8H-CR-T-EW 73.2@2200 28.5 D3.8H-CR-T-EW02 73.1 24.5 EM, DFI, TC, EGR, ECM, PTOX, DOC V3800-CR-T-EW01 V3800-CR-T-EW 73.2@2200 59.0 29.0 228.6@1500 73.2@2200 V3800-CR-T-EW02 V3800-CR-T-EW 58.0 28.5 225.3@1500 71.3 23.9 EM, DFI, TC, EGR, ECM, PTOX, DOC 73.2@2400 225.3@1500 71.3 EM, DFI, TC, EGR, ECM, PTOX, DOC V3800-CR-T-EW03 V3800-CR-T-EW 54.9 29.5 23.9 29.4 200.3@1500 63.8 21.4 EM, DFI, TC, EGR, ECM, PTOX, DOC V3800-CR-T-EW 72.5@2400 54.8 V3800-CR-T-EW04 DHI= Direct Flue Injection * new engine code 0 tested engine