Pursuant to the authority vested in the 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)		
2018	JKBXL01.8EKD	1.826	Diesel	5000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Exhaust G	ctronic Direct Injection, Sas Recirculation, Electro Oxidation Catalyst, Perio	onic Control Module,	Loader, Tractor, Pump, Compressor and Other Industrial Equipment			

The engine models and codes are attached.

CALIFORNIA

AIR RESOURCES BOARD

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 (%)				
CLASS	STANDARD		NMHC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
19 <u>&lt;</u> kW < 37	Tier 4 Final	STD	N/A	N/A	4.7	5.5	0.03	N/A	N/A	N/A
		CERT			3.5	0.04	0.003			·

**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 \_\_\_\_

6 \_\_\_\_ day of October 2017.

Annette Hebert, Chief

Jernissions Compliance, Automotive Regulations and Science Division

## **Engine Model Summary Form**

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## EO# U-R-025-0773 Date: 9/18/2017

Manufacturer: **KUBOTA** Corporation Nonroad Cl Engine category: **EPA Engine Family:** JKBXL01.8EKD Mfr Family Name: N/A Process Code: **New Submission** 

1.Engine Code

D1803-CR-T-EF01

D1803-CR-T-EF02

D1803-CR-T-EF03

D1803-CR-T-EF71

D1803-CR-T-EF73

.

Attachment

page

of 1

8. Fuel Rate: 4. Fuel Rate: 5. Fuel Rate: 7. Fuel Rate: 9. Emission Control 3.BHP@RPM 6. Torque @ RPM (lbs/hr)@peak 2.Engine Model mm/strokę @ peak HP (lbs/hr) @ peak HP mm/stroke@peak (SEA Gross) Device Per SAE J1930 (SAE Gross) (for diesel only) (for diesels only) torque torque EM, DFI, TC, EGR, ECM, PTOX, DOC D1803-CR-T-EF 48.3@2700 42.5 19:2 114.8@1600 48.4 13.0 43.3@2400 109.4@1500 47.0 11.8 EM, DFI, TC, EGR, ECM, PTOX, DOC D1803-CR-T-EF 41.4 16.7 39.8@2200 109.4@1500 47.0 11.8 EM, DFI, TC, EGR, ECM, PTOX, DOC D1803-CR-T-EF 41.0 15.1 48.3@2700 13.0 EM, DFI, TC, EGR, ECM, PTOX, DOC 42.5 19.2 114.8@1600 48.4 D1803-CR-T-EF 109.4@1500 D1803-CR-T-EF72 D1803-CR-T-EF 43.3@2400 41.4 16.7 47.0 11.8 EM, DFI, TC, EGR, ECM, PTOX, DOC 109.4@1500 D1803-CR-T-EF 41.0 15.1 47.0 11.8 EM, DFI, TC, EGR, ECM, PTOX, DOC 39.8@2200 -