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	KKBXL.416KCC	0.417	Diesel	3000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
	Indirect Diesel Inje	ction	Pump, Generator Set, Auxiliary Power Unit, Light Tower			

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		EXHAUST (g/kw-hr)				OPACITY (%)			
	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
kW < 8	Tier 4 Final	STD	N/A	N/A	7.5	8.0	0.40	N/A	N/A	N/A
		CERT			5.9	2.5	0.13			

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**

## E0# U-R-025-0811 Date: 10/10/2018

**KUBOTA** Corporation Manufacturer: Nonroad CI Engine category: EPA Engine Family: KKBXL.416KCC Mfr Family Name: N/A Process Code: **New Submission** 

Attachment page 1 of 1

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: mm/stroke@peak torque	8.Fuel Rate: (Ibs/hr)@peak torque	9 Emission Control Device Per SAE J1930
OC95-D2-EF	8.2@3000	23.8	4.0	14.3@3000	23.8	4.0	EM, IFI
OC95-D2-EF	7.8@3000	22.6	3.8	13.6@3000	22.6	3.8	EM, IFI
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			Sector Control				
				1911 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 -			and the second second second
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	OC95-D2-EF OC95-D2-EF	OC95-D2-EF 8.2@3000 OC95-D2-EF 7.8@3000	2.Engine Model S.BHP@REM (SAE Gross) mm/stroke @ peak HP (for diesel only)   OC95-D2-EF 8.2@3000 23.8   OC95-D2-EF 7.8@3000 22.6	2.Engine Model   3.BHP@KHM (SAE Gross)   mm/stroke @ peak HP (for diesel only)   (lbs/hr) @ peak HP (for diesels only)     OC95-D2-EF   8.2@3000   23.8   4.0     OC95-D2-EF   7.8@3000   22.6   3.8	2.Engine Model   S.DH/@RFM (SAE Gross)   mm/stroke @ peak HP (for diesel only)   (lbs/hr) @ peak HP (for diesel only)   0.Totqle @ rFM (SEA Gross)     0C95-D2-EF   8.2@3000   23.8   4.0   14.3@3000     0C95-D2-EF   7.8@3000   22.6   3.8   13.6@3000	2.Engine Model   S.BHPgrith   mm/stroke@peak HP (for diesel only)   (lbs/h) @ peak HP (for diesels only)   0.00que @ resh (SEA Gross)   mm/stroke@peak torque     OC95-D2-EF   8.2@3000   23.8   4.0   14.3@3000   23.8     OC95-D2-EF   7.8@3000   22.6   3.8   13.6@3000   22.6	2.Engline Model   S.Dhr @min   immistroke @peak HP   (bit of dises)   (bit