California Environmental Protection Agency

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) 8000		
2016	GKBXL03.3EMD	3.331	Diesel			
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Electroni Cooler Re	c Direct Injection, Turboo , Electronic Control Mod ecirculation, Diesel Oxida	charger, Charge Air ule, Exhaust Gas ttion Catalyst	Loader, Tractor, Other Industrial Equipment			

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
37 <u>&lt;</u> kW < 56	Tier 4 Final	STD	N/A	N/A	4.7	5.0	0.03	N/A	N/A	N/A
		CERT			3.6	0.5	0.01			

**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 September 2015.

Annette Hebert, Chief Emissions Compliance, Automotive Regulations and Science Division

**Engine Model Summary Form** 

## EO# U-R-025-0698 Date: 2/29/2016

Manufacturer:KUBOTA CorporationEngine category:Nonroad ClEPA Engine Family:GKBXL03.3EMDMfr Family Name:N/AProcess Code:Running Change

8. Fuel Rate: 7.Fuel Rate: 4.Fuel Rate: 5.Fuel Rate: 9 Emission Control 3.BHP@RPM 6. Torque @ RPM mm/stroke @ peak HP (lbs/hr) @ peak HP mm/stroke@peak (lbs/hr)@peak 1.Engine Code 2.Engine Model Device Per SAE J1930 (SEA Gross) (SAE Gross) torque torque (for diesel only) (for diesels only) EM, DFI, TC, EGR, CAC, ECM, DOC 49.4 28.7 192.6@1500 56.7 19.0 D3.3M-CR-TI-EF02 D3.3M-CR-TI-EF 73.2@2600 63.7 21.4 EM. DFI. TC. EGR. CAC. ECM. DOC 73.2@2200 55.7 27.4 212.2@1500 V3307-CR-TI-EF01 V3307-CR-TI-EF EM, DFI, TC, EGR, CAC, ECM, DOC 73.2@2600 28.7 192.6@1500 56.7 19.0 V3307-CR-TI-EF02 V3307-CR-TI-EF 49.4 73.2@2400 56.7 19.0 EM, DFI, TC, EGR, CAC, ECM, DOC 27.8 192.6@1500 V3307-CR-TI-EF03 V3307-CR-TI-EF 51.8 56.7 19.0 EM, DFI, TC, EGR, CAC, ECM, DOC V3307-CR-TI-EF04 V3307-CR-TI-EF 73.2@2200 54.9 27.0 192.6@1500 50.2 EM, DFI, TC, EGR, CAC, ECM, DOC 16.8 66.1@2300 49.2 25.3 167.1@1500 V3307-CR-TI-EF05 V3307-CR-TI-EF \* new rating

Attachment

page 1 of 1

## Model Summary