California Environmental Protection Agency		EXECUTIVE ORDER U-R-025-0689		
OB Air Resources Board	KUBOTA Corporation	New Off-Road		
		Compression-Ignition Engines		

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)	
2016	GKBXL02.4END	2.435	Diesel	8000	
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		TYPICAL EQUIPMENT APPLICATION			
Electronic Direct Injection, Exhaust Gas Recirculation, Electronic Control Module, Diesel Oxidation Catalyst, Periodic Trap Oxidizer		Loader, Tractor, Pump, Compressor, and 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		EXHAUST (g/kW-hr)				OPACITY (%)			
	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
19 <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			3.1	0.04	0.001			

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).

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has complied with the more stringent set of standards from the various power categories in conformance with Section 1039.230 (e) of the "California Exhaust Emission Standards and Test Procedures for 2008 and Later Tier 4 Off-Road Compression-Ignition Engines, Part I-C" adopted October 20, 2005 and last amended October 25, 2012.

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

Attachment page 1 of 1

EO#U-R-025-0689 Date: 8/17/2015

Manufacturer:KUBOTA CorporationEngine category:Nonroad ClEPA Engine Family:GKBXL02.4ENDMfr Family Name:N/AProcess Code:New Submission

4. Fuel Rate: 7.Fuel Rate: 8.Fuel Rate: 5.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 (SAE Gross) (SEA Gross) Device Per SAE J1930 (for diesel only) (for diesels only) torque torque 52.7@2700 126.1@1600 EM, DFI, EGR, ECM, PTOX, DOC V2403-CR-EF01 V2403-CR-EF 34.3 20.7 40.5 14.5 EM, DFI, EGR, ECM, PTOX, DOC 116.1@1600 V2403-CR-EF02 V2403-CR-EF 49.3@2700 32.0 19.3 38.1 13.6 48.5@2700 116.1@1600 V2403-CR-EF03 V2403-CR-EF 32.9 19.9 38.1 13.6 EM, DFI, EGR, ECM, PTOX, DOC V2403-CR-EF04 V2403-CR-EF 48.7@2700 32.6 19.7 114.6@1600 36.9 13.2 EM, DFI, EGR, ECM, PTOX, DOC の日本の