KUBOTA Corporation

EXECUTIVE ORDER U-R-025-0563 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-02-003;

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)			
2013	DKBXL01.8EKD	1.826	Diesel	5000			
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION				
Exhaust (ectronic Direct Injection, Gas Recirculation, Electro Oxidation Catalyst, Perio	onic Control Module,	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 STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
			NMHC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
19 <u><</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	0.05	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

Annette Hebert, Chief

Mobile Source Operations Division

Engine Model Summary Form

Manufacturer:

KUBOTA Corporation

Engine category:

Nonroad Cl

EPA Engine Family: DKBXL01.8EKD

New Submission

Mfr Family Name: N/A

Process Code:

Attachment
page 1 of 1

EO# U-R-025-0563

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate (lbs/hr) @ pea (for diesels o	k HP 6. Torque @ RPM	7.Fuel F mm/stroke torqu	@peak		el Rate: peak torque	9.Emission Control Device Per SAE J1930	
D1803-CR-T-EF01	D1803-CR-T-EF	48.3@2700	42.5	19.2	114.8@1600	48.	4		13.0	EM,ECM,EGR	DDI, TC, PTOX
D1803-CR-T-EF02	D1803-CR-T-EF	43.3@2400	41.4	16.7	109.4@1500	47.	0	•	11.8	EM,ECM,EG	
D1803-CR-T-EF03	D1803-CR-T-EF	39.8@2200	41.0	15.1	109.4@1500	47.	0	- Andrew Committee	11.8	EM,ECM,EG	

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