

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) 5000			
2010	AKBXL02.2FCD	1.647, 2.197	Diesel				
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION				
	Indirect Diesel Inje	ection	Tractor, Compressor, Generator Set, Other Industrial Equipment				

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), 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 (%)		
			HC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
19 <u><</u> kW < 37	Tier 4 Interim	STD	N/A	N/A	7.5	5.5	0.30	20	15	50
		CERT	-	-	6.0	1.0	0.17	2	2	4

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 December 2009.

Annette Hebert, Chief Mobile Source Operations Division

Engine Model Summary Form

KUBOTA Corporation

Manufacturer:

EN LOT 8.Fuel Rate: 9.Emission Control (ibs/hr)@peak torque Device Per SAE J1930 Date: 12 / 16/2009 МШ Ы МШ M МШ M Ň ΜШ МШ M M M Ы M M M M M M M M M U-R-025-0439 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.0 12.2 12.8 12.8 9.5 9.4 9.5 9.5 9.5 9.4 9.4 8.9 9.4 9.4 9.0 mm/stroke@peak torque 7.Fuel Rate: 35.8 35.8 35.4 35.4 35.4 35.4 35.1 35.1 35.4 36.5 35.7 35.8 35.7 35.8 35.7 35.8 35.1 35.1 35.1 35.7 35.7 35.8 35.7 Page 1 of 1 108.0@1500 105.6@1600 6. Torque @ RPM (SEA Gross) 105.6@1600 103.8@1600 105.6@1600 103.8@1600 103.8@1600 75.6@1600 75.6@1600 103.8@1600 103.8@1600 105.6@1600 103.8@1600 105.6@1500 05.6@1500 76.9@1600 76.9@1600 75.6@1600 75.6@1600 76.9@1500 76.9@1600 75.6@1600 76.9@1600 Attachment 5.Fuel Rate: (Ibs/hr) @ peak HP (for diesels only) 15.0 14.4 13.8 12.6 12.0 11.4 13.2 11.7 11.1 14.2 20.2 20.2 15.1 15.9 18.5 19.4 15.5 14.9 17.7 17.1 18.2 16.7 14.1 mm/stroke @ peak HP (for diesel only) 4.Fuel Rate: 30.9 31.8 31.6 32.0 31.4 31.3 31.0 30.8 31.4 32.3 32.3 30.8 31.0 31.9 31.7 31.2 30.9 30.2 31.2 31.3 31.1 32.1 31.1 3.BHP@RPM (SAE Gross) 33.8@2700 28.8@2300 26.8@2150 48.1@2800 37.8@2200 39.6**@**2300 42.9@2500 38.6@2250 35.0@2800 27.5@2200 32.6@2600 31.2@2500 30.0@2400 28.2@2250 33.4@2700 48.1@2800 44.7@2600 41.3@2400 46.4@2700 37.1@2200 42.1@2450 43.9@2600 44.9@2700 **New Submission** AKBXL02.2FCD 2.Engine Model D1703-M-ET D1703-M-ET D1703-M-ET D1703-M-ET D1703-M-ET V2203-M-ET D1703-M-ET D1703-M-ET D1703-M-ET D1703-M-ET V2203-M-ET V2203-M-ET V2203-M-ET V2203-M-ET V2203-M-ET V2203-M-ET V2203-M-ET D1703-M-ET V2203-M-ET V2203-M-ET V2203-M-ET V2203-M-ET V2203-M-ET Nonroad Cl **N** EPA Engine Famly. Mfr Family Name: I.Engine Code Engine category: D1703-M-ET10 D1703-M-ET01 D1703-M-ET02 D1703-M-ET03 D1703-M-ET04 D1703-M-ET05 D1703-M-ET06 D1703-M-ET07 D1703-M-ET08 D1703-M-ET09 V2203-M-ET02 V2203-M-ET03 V2203-M-ET04 V2203-M-ET05 V2203-M-ET06 V2203-M-ET07 V2203-M-ET08 V2203-M-ET09 V2203-M-ET10 V2203-M-ET11 V2203-M-ET12 V2203-M-ET13 V2203-M-ET01 Process Code:

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