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 FAMIL		DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)		
2015	FKBXL.719NCB	0.479, 0.719	Diesel	3000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
	Indirect Diesel Inje	ection	Transport Refrigeration Unit			

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	EMISSION				EXHAUST (g/kw-hr)			OPACITY (%)		
POWER CLASS	STANDARD		NMHC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
8 ≤ kW < 19	Tier 4 Final	STD	N/A	N/A	7.5	6.6	0.40	20	15	50
		CERT			4.9	2.6	0.26	11	13	15

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 engines certified under this Executive Order shall not be introduced into commerce before January 2, 2014.

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 2013.

Erik White, Chief

Mebile Source Operations Division

Engine Model Summary Form

EO# U-R-025-0624

Manufacturer:

KUBOTA Corporation

Engine category:

Nonroad Cl

EPA Engine Family:

FKBXL.719NCB

Mfr Family Name:

N/A

Process Code:

New Submission

Attachment

page 1 of

Date: 12/5/2013

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) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8,Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
D722-EF01	D722-EF	12.9@2400	13.7	5.5	28.8@2100	14.0	4.9	EM, IFI
Z482-EF01	Z482-EF	13.4@3600	15.4	6.2	22.9@2600	16.7	4.9	EM, IFI
Z482-EF02	Z482-EF	8.9@2400	14.0	3.8	19.3@1900	13.6	2.9	EM, IFI
Z482-EF03	Z482-EF	8.0@2200	13.8	3.4	19,2@1900	13.5	2.9	EM, IFI
N. T. S.							IHI=I	ndirect Fuel Inject
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