

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	DKBXL03.8AKD	3.77	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Turbocharger, Electronic Control Module, Exhaust Gas Recirculation, Diesel Oxidation Catalyst, and Periodic Trap Oxidizer			Agricultural Tractor and Skid Steer Loader	

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):

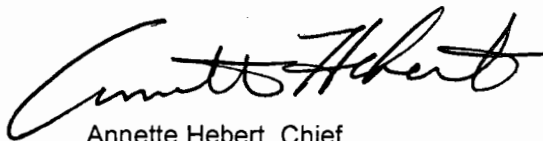
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
56 ≤ kW < 75	Tier 4 / ALT NOx	STD	0.19	3.4	N/A	5.0	0.02	N/A	N/A	N/A
		CERT	0.001	2.6	--	0.1	0.01	--	--	--

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 27 day of December 2012.



Annette Hebert, Chief
 Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: KUBOTA Corporation
Engine category: Nonroad CI
EPA Engine Family: DKBXL03.8AKD
Mfr Family Name: N/A
Process Code: New Submission

Attachment

EO# U-R-025-0589

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Date: 12/19/2012

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
V3800-CR-T-EF01	V3800-CR-T-EF	99.2@2600	69.0	40.1	247.1@1500	80.0	26.8	EM,ECM,EGR,Doc,DAI,TC,PTOX
V3800-CR-T-EF02	V3800-CR-T-EF	98.4@2600	67.3	39.1	243.4@1500	77.0	25.8	EM,ECM,EGR,
V3800-CR-T-EF03	V3800-CR-T-EF	96.7@2400	71.3	38.3	243.4@1500	77.0	25.8	EM,ECM,EGR,
V3800-CR-T-EF04	V3800-CR-T-EF	92.8@2200	73.5	36.1	243.4@1500	77.0	25.8	EM,ECM,EGR,
V3800-CR-T-EF05	V3800-CR-T-EF	92.3@2600	64.0	37.2	226.4@1500	71.9	24.1	EM,ECM,EGR,
V3800-CR-T-EF06	V3800-CR-T-EF	90.0@2600	62.8	36.5	219.1@1500	69.6	23.3	EM,ECM,EGR,
V3800-CR-T-EF07	V3800-CR-T-EF	88.5@2400	65.4	35.1	219.1@1500	69.6	23.3	EM,ECM,EGR,
V3800-CR-T-EF08	V3800-CR-T-EF	88.6@2400	65.1	34.9	225.3@1500	71.3	23.9	EM,ECM,EGR,
V3800-CR-T-EF09	V3800-CR-T-EF	90.7@2400	66.6	35.7	243.4@1500	77.0	25.8	EM,ECM,EGR,
V3800-CR-T-EF10	V3800-CR-T-EF	83.8@2400	61.5	33.0	228.9@1500	72.4	24.3	EM,ECM,EGR,
C3.8-CR-T-EF03	C3.8-CR-T-EF	96.7@2400	71.3	38.3	243.4@1500	77.0	25.8	EM,ECM,EGR,
C3.8-CR-T-EF04	C3.8-CR-T-EF	92.8@2200	73.5	36.1	243.4@1500	77.0	25.8	EM,ECM,EGR,
D3.8H-CR-T-EF02	D3.8H-CR-T-EF	98.4@2600	67.3	39.1	243.4@1500	77.0	25.8	EM,ECM,EGR,

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