

## **KUBOTA Corporation**

EXECUTIVE ORDER U-R-025-0517 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	R ENGINE FAMILY (liters)		FUEL TYPE	USEFUL LIFE (hours)
2012	CKBXL03.8AAC	3.769	Diesel	8000
	FEATURES & EMISSION		TYPICAL EQUIPMENT	
Me Ele	chanical Direct Injection, ctronic Control Module ( Exhaust Gas Recire	Turbocharger, Some Models), culation	Generator S	Set

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	EMISSION				EXHAUST (g/kw-	OPACITY (%)				
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
37 ≤ kW < 56	Tier 4 - Interim	\$TD	N/A	N/A	4.7	5.0	0.30	N/A	N/A	N/A
		CERT			4.2	1.9	0.17			

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 September 2011.

Annette Hebert, Chief

Mobile Source Operations Division

## **Engine Model Summary Form**

60 # U-R-025-0517

KUBOTA Corporation Engine category: Manufacturer:

EPA Engine Family: CKBXL03.8AAC Nonroad Cl

New Submission Process Code:

Mfr Family Name: N/A

Attachment

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8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930	EM,EGR, TC+DI	EM, Electronic,										The state of the s													
8.Fuel Rate: (lbs/hr)@peak torque	N/A	N/A																							
7.Fuel Rate: mm/stroke@peak torque	NA	N/A	1									The second secon			Transmission Trans	and the same of th							C. Marian		
6. Torque @ RPM (SEA Gross)	N/A	NA							100	The state of the s											And the second s				
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	27.4	27.4		and the second s				The second secon		and the same of th		S. Communication of the Commun		- c											The state of the s
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	68.0	68.0					を受ける。					100 CO (100 CO) (100 CO (100 CO (100 CO (100 CO) (100 CO) (100 CO (100 CO) (100				(A)				The state of the s					
3.BHP@RPM (SAE Gross)	73.4@1800	73.4@1800		And the second s	(2) 在 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)						と の の の の の の の の の の の の の の の の の の の		× ************************************						I have	The second secon				and the second s	
2.Engine Model	V3800-DI-T-BG-E	V3800-DI-T-BG-E				A Company of the Comp									The state of the s	and the second s		The state of the s				more management of the managem			A sign pin pin pin pin pin pin pin pin pin pi
1.Engine Code	V3800-DI-T-BG-ET01 V3800-DI-T-BG-E	V3800-DI-T-BG-ET01 V3800-DI-T-BG-E				And the second s				S. C.	The state of the s				7		Wales	, , , , , , , , , , , , , , , , , , ,		and it is the second of the se					The state of the s