

KUBOTA Corporation

EXECUTIVE ORDER U-R-025-0390 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)							
2009	9KBXL02.4ECD	1.826, 2.434	Diesel 5000								
	FEATURES & EMISSION (TYPICAL EQUIPMENT APPLICATION								
	Direct Diesel Injec	tion .	Other Industrial Eq	uipment							

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			E	XHAUST (g/kW-	OPACITY (%)					
POWER CLASS	STANDARD CATEGORY		HC NOx		NMHC+NOx	co	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			6.2	2.2	0.21	1	1	1 ,	

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.

Rophael Susnowit

Executed at El Monte, California on this 24/2 day of December 2008.

Annette Hebert, Chief

Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: KUBOTA Corporation

Engine category: Nonroad Cl

EPA Engine Family: 9KBXL02.4ECD

Mfr Family Name: N/A

Process Code: New Submission

Attachment

U-R-025-0390

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9.Emission Control evice Per SAE J193	EM	EM	E	EM	EM	EM	¥ iii	EM	E	EM	Ē	EM	EM	EM								
rdne D	6	5	7	5.	9	4	T	7.	0,	8.	б.	0.	.2	.3								
8.Fuel Rate: (lbs/hr)@peak to	12.9	9.5	8.4	9.5	9.5	8.4	8.4	12.7	12.9	11.3	12.9	13.0	11.2	11.3				***************************************				
7.Fuel Rate: mm/stroke@peak torque	36.0	35.4	35.8	35.4	35.5	35.7	35.9	38.0	36.0	36.0	36.0	36.4	35.9	36.0					the commence of the first formation of the fi			
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6.Torque @ RPM (SEA Gross)	117.0@1600	85.3@1600	83.8@1400	85.3@1600	85.3@1600	83.8@1400	83.8@1400	121.7@1500	117.0@1600	115.0@1400	117.0@1600	117.0@1600	115.0@1400	115.0@1400					ones in the Carlotte and an an annual and an annual an	,		
6.T		٣		æ	8	8	8	+		-		_		_					- Constitution of the Cons			
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	19.2	15.1	12.2	14.3	13.7	13.6	12.6	19.5	. 19.5	15.9	19.2	18.6	18.3	17.2	The state of the s			nnum manistrika (kikiki kiristrissys) myön mennammannammannamma	or go reliable to tetra teller as to consumer to be a processively does only state to the transition of the transition o			
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	33.1	33.4	33.1	32.9	32.6	33.8	32.7	32.3	32.3	32.3	33.1	33.2	34	33.5					region control de l'annocement par l'article in entité de l'annocement de l'article de l'article de l'article de			
3.BHP@RPM (SAE Gross)	2.5 48.9@2600	37.4@2700	.√3 30.6@2200	36.1@2600	34.7@2500	33.3@2400	31.9@2300	48.9@2700	48.9@2700	41.8@2200	48.9@2600	47.6@2500	45.7@2400	43.9@2300					AND THE PROPERTY OF THE PROPER			
2.Engine Model	4IRX3N 365	D1803-M-DI-ET	D1803-M-DI-ET* 30.6@2200	D1803-M-DI-ET	D1803-M-DI-ET	D1803-M-DI-ET	D1803-M-DI-ET	V2403-M-DI-ET	V2403-M-DI-ET	V2403-M-DI-ET	V2403-M-DI-ET	V2403-M-DI-ET	V2403-M-DI-ET	V2403-M-DI-ET			-		A CONTRACTOR OF THE CONTRACTOR			
1.Engine Code	4IRX3N	D1803-M-DI-ET01	D1803-M-DI-ET02	D1803-M-DI-ET03	D1803-M-DI-ET04	D1803-M-DI-ET05	D1803-M-DI-ET06	V2403-M-DI-ET01	V2403-M-DI-ET02	V2403-M-DI-ET03	V2403-M-DI-ET04	V2403-M-DI-ET05	V2403-M-DI-ET06	V2403-M-DI-ET07	Militaria de la composição de la composi	A			THE REAL PROPERTY OF THE PROPE			