

KUBOTA CORPORATION

EXECUTIVE ORDER U-R-025-0327 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)			
2008	8KBXL.778KCB	0.778	Diesel	3000			
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION				
	Indirect Diesel Inje	ction	Generator Set, Other OEM Products				

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	CO	PM	ACCEL	LUG	PEAK
8 ≤ kW < 19	Tier 4	STD	N/A	N/A	7.5	6.6	0.40	20	15	50
		CERT			6.1	2.4	0.31	6	4	11

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 April 2007.

Annette Hebert, Chief

Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: KUBOTA Corporation

Engine category: Nonroad CI

EPA Engine Family: 8KBXL.778KCB

Mfr Family Name: N/A

Process Code: New Submission

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9.Emission Control Device Per SAE J1930	tar (\ -	
9.Emission Control evice Per SAE J193	鱼		ā	Z E	ĒN		
orque De			Table 4				
8.Fuel Rate: (lbs/hr)@peak torque	4.6	6.8	6.4	5.6	4.2	4.7	
					A 77.55 To 3		
7.Fuel Rate: mm/stroke@peak torque	15.4	16.8	0.91	16.7	15.6	5.6	
7.Fue mm/stro toi			115				
RPM ss)	800	400	400	000	900	900	
6.Torque @ RPM (SEA Gross)	33.3@1800	36.7@2400	34.4@2400	34.5@2000	33.3@1600	33.3@1800	
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.8	8.3	7.3	7.1	5.2	5.6	
			4.77				
tate: peak HP only)	9	2	9	9		ဖ	
4.Fuel Rate: mm/stroke @ peak (for diesel only)	15.6	15.5	14.6	14.6	14.1	14.6	
Ħ	. 0	0	0	0	0	0	
3.BHP@RPM (SAE Gross)	15.8@2600	19.3@3200	17.0@3000	16.5@2900	q.۶ 12.5@2200	13.3@2300	
3.B (S)	15	19	17	16.	q.3 12	13.	
Model (7E	Ļ	Щ	Li-	山山	-ET	12 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
2.Engine Model	3D67E	D782-ET	D782-ET	D782-ET	D782-ET	D782-ET	
		and Continued to the Co	2	3	4	5	
.Engine Code	3D67E	D782-ET01	D782-ET02	J782-ET03	D782-ET04	D782-ET05	
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