California Environmental Protection Agency	KUBOTA Corporation	EXECUTIVE ORDER U-R-025-0715
OB Air Resources Board		New Off-Road
		Compression-lanition 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-14-012;

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)		
2017	HKBXL.778KCB	0.778	51110			
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Indirect Diesel Injection			Tractor, Generator Set, and Other Industrial Equipment			

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 (%)			
		:	NMHC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
8 <u><</u> kW < 19	Tier 4 Final	STD	N/A	N/A	7.5	6.6	0.40	20	15	50
		CERT			6.1	1.6	0.29	10	11	20

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 December 2016.

Annette Hebert, Chief Emissions Compliance, Automotive Regulations and Science Division

Engine Model Summary Form

KUBOTA Corporation Manufacturer: Nonroad Cl Engine category: HKBXL.778KCB EPA Engine Family: Mfr Family Name: N/A **New Submission** Process Code:

Attachment page 1 of 1

EO# U-R-025-0715 Date: 12/12/2016

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
3D67E	3D67E	15.8@2600	15.6	6.8	34.2@1800	15.8	4.8	EM, IFI
D782-EF01	D782-EF	19.4@3200	16.1	8.6	37.2@1900	17.2	5.5	EM, IFI
_D782-EF02	D782-EF	19.3@3200	15.5	8.3	36.7@2400	16.8	6.8	EM, IFI
D782-EF03	D782-EF	17.0@3000	14.6	7.3	34.4@2400	16.0	6.4	EM, IFI
D782-EF04	D782-EF	15.8@2600	15.6	6.8	34.2@1800	15.8	<u>⊩</u> 4.8	EM, IFI
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