

California Environmental Protection Agency <b>Air Resources Board</b>	KUBOTA Corporation	<b>EXECUTIVE ORDER U-R-025-0697</b> 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-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)
2016	GKBXL03.3EKD	3.331	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Turbocharger, Exhaust Gas Recirculation, Electronic Control Module, Diesel Oxidation Catalyst, Periodic Trap Oxidizer			Loader, Tractor, 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 (NO<sub>x</sub>), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NO<sub>x</sub>), 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	NO <sub>x</sub>	NMHC+NO <sub>x</sub>	CO	PM	ACCEL	LUG	PEAK
37 ≤ kW < 56	Tier 4 Final	STD	N/A	N/A	4.7	5.0	0.03	N/A	N/A	N/A
		CERT	--	--	3.1	0.04	0.002	--	--	--

**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 14 day of September 2015.



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

# Engine Model Summary Form

EO # U-R-025-0697

**Manufacturer:** KUBOTA Corporation  
**Engine category:** Nonroad CI  
**EPA Engine Family:** GKBL03.3EKD  
**Mfr Family Name:** N/A  
**Process Code:** Running Change

Attachment page 1 of 1

Date: 8/30/2016

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
C3.3B-CR-T-EF04	C3.3B-CR-T-EF	73.2@2400	53.0	28.4	192.5@1500	61.0	20.5	EM, DFI, TC, EGR, ECM, PTOX, DOC
C3.3B-CR-T-EF05	C3.3B-CR-T-EF	73.2@2200	55.1	27.1	192.5@1500	61.0	20.5	EM, DFI, TC, EGR, ECM, PTOX, DOC
C3.3B-CR-T-EF06	C3.3B-CR-T-EF	65.7@2000	54.8	24.5	194.0@1400	60.8	19.0	EM, DFI, TC, EGR, ECM, PTOX, DOC
D3.3H-CR-T-EF02	D3.3H-CR-T-EF	73.2@2600	50.4	29.3	192.5@1500	61.0	20.5	EM, DFI, TC, EGR, ECM, PTOX, DOC
D3.3H-CR-T-EF05	D3.3H-CR-T-EF	73.2@2200	55.1	27.1	192.5@1500	61.0	20.5	EM, DFI, TC, EGR, ECM, PTOX, DOC
V3307-CR-T-EF01	V3307-CR-T-EF	73.2@2200	55.8	27.4	212.2@1500	66.1	22.2	EM, DFI, TC, EGR, ECM, PTOX, DOC
V3307-CR-T-EF02	V3307-CR-T-EF	73.2@2600	50.4	29.3	192.5@1500	61.0	20.5	EM, DFI, TC, EGR, ECM, PTOX, DOC
V3307-CR-T-EF03	V3307-CR-T-EF	72.5@2600	49.2	28.6	187.3@1600	57.2	20.5	EM, DFI, TC, EGR, ECM, PTOX, DOC
V3307-CR-T-EF04	V3307-CR-T-EF	73.2@2400	53.0	28.4	192.5@1500	61.0	20.5	EM, DFI, TC, EGR, ECM, PTOX, DOC
V3307-CR-T-EF05	V3307-CR-T-EF	73.2@2200	55.1	27.1	192.5@1500	61.0	20.5	EM, DFI, TC, EGR, ECM, PTOX, DOC
V3307-CR-T-EF06	V3307-CR-T-EF	65.7@2000	54.8	24.5	194.0@1400	60.8	19.0	EM, DFI, TC, EGR, ECM, PTOX, DOC
V3307-CR-T-EF07	V3307-CR-T-EF	65.0@2600	44.6	25.9	163.7@1600	51.1	18.3	EM, DFI, TC, EGR, ECM, PTOX, DOC
V3307-CR-T-EF08	V3307-CR-T-EF	66.1@2300	49.4	25.4	192.5@1500	61.0	20.5	EM, DFI, TC, EGR, ECM, PTOX, DOC
V3307-CR-T-EF09	V3307-CR-T-EF	72.3@2400	52.3	28.1	187.3@1600	57.2	20.5	EM, DFI, TC, EGR, ECM, PTOX, DOC
V3307-CR-T-EF10	V3307-CR-T-EF	73.0@2400	52.8	28.3	187.9@1400	58.2	18.2	EM, DFI, TC, EGR, ECM, PTOX, DOC
V3307-CR-T-EF11	V3307-CR-T-EF	65.4@2400	48.3	25.9	168.5@1400	53.0	16.6	EM, DFI, TC, EGR, ECM, PTOX, DOC
V3307-CR-T-EF12	V3307-CR-T-EF	73.2@2400	53.1	28.5	192.5@1400	60.0	18.8	EM, DFI, TC, EGR, ECM, PTOX, DOC
V3307-CR-T-EF13	V3307-CR-T-EF	65.4@2400	47.2	25.3	170.8@1400	52.7	16.5	EM, DFI, TC, EGR, ECM, PTOX, DOC

\* new rating