

KUBOTA CORPORATION

EXECUTIVE ORDER: U-R-025-1098

New Off-Road Compression-Ignition Engines
Page 1 of 1

Pursuant to the authority vested in the California Air Resources Board by Health and Safety Code Division 26, Part 5, Chapters 1 and 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-19-095;

IT IS ORDERED AND RESOLVED: The engines and emission control systems produced by the manufacturer as described below are certified 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	Combustion Cycle	Fuel Operation	Fuel Type(s)	Engine Operation
2024	RKBXL01.0BCB	Diesel	Dedicated	Diesel	Variable and Constant Speed

Emission Control Systems	Special Features
[1]: Indirect Fuel Injection (IFI)	None

The certified engine models are attached.

The listed engine models comply with the following: 1) emission standard limits (STD) and Not-To-Exceed (NTE) limits, as applicable, for criteria pollutants non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM), and for smoke opacity as demonstrated during the Acceleration (ACL) and Lugging (LUG) modes, and the peak value (PEAK) in either mode of the Smoke Opacity cycle, as set forth in 13 CCR 2423 and the applicable California test procedures for off-road compression-ignition engines, and 2) family emission limits (FEL) declared by the manufacturer as allowed by the applicable California test procedures, stated in units of gram per kilowatthour (g/kWh-hr) and percent opacity (%opacity), respectively, except as noted, or designated as not applicable (*).

	Crit	eria	Smoke Opacity				
Applicable Standard		NMHC+NOx	СО	PM	ACL	LUG	PEAK
	STD	7.5	6.6	0.40	20	15	50
Tier 4 Final 8 ≤ kW < 19	FEL	*	*	*	*	*	*
0 = KVV 1 10	NTE	9.4	8.2	0.50	*	*	*

BE IT FURTHER RESOLVED: Any declared FEL is the emission limit to which all engines must comply in lieu of the standard limit for certification purposes, subject to the restrictions of averaging, banking, or trading (ABT) programs allowed by the applicable California test procedures.

BE IT FURTHER RESOLVED: For the listed engine models, the manufacturer has submitted materials to demonstrate certification compliance with 13 CCR 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control warranty).

BE IT FURTHER RESOLVED: The listed engine models may only be installed in or on equipment such that engine operation is consistent with off-road compression-ignition engines as defined in 13 CCR 2421(a)(39).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Executed on this 2nd day of October 2023.

Robin U. Lang, Chief

Emissions Certification and Compliance Division

ATTACHMENT: ENGINE MODELS

Family: RKBXL01.0BCB EO Number: U-R-025-1098 Date Applicable: 09/15/2023

Model				Displacement	Peak Power			Peak Torque	:	Fueling	ECS Num	GHG	Notes
	Code	Trim	Config		Power	Speed	d Fueling	Torque	Speed				
-	-	-	-	L	kW	rpm	mm3/stroke	N-m	rpm	mm3/stroke	-	-	-
D1005-EF	D1005-EF01	N/A	13	1.002	18.2	3200	20.9	63.3	2400	22.9	1	N/A	
D1005-EF	D1005-EF02	N/A	13	1.002	18.2	3200	20.8	61.3	2400	22.4	1	N/A	
D1005-EF	D1005-EF02e	N/A	13	1.002	18.2	3200	20.8	61.3	2400	22.4	1	N/A	
D1005-EF	D1005-EF03	N/A	13	1.002	17.2	3000	20.7	61.9	2200	22.6	1	N/A	
D1005-EF	D1005-EF04	N/A	13	1.002	15.4	2800	19.7	60.9	2000	22.2	1	N/A	
D1005-EF	D1005-EF05	N/A	13	1.002	14.6	2700	19.3	59.4	1900	21.7	1	N/A	
D1005-EF	D1005-EF06	N/A	13	1.002	14.3	2600	19.3	60.9	1700	22.3	1	N/A	
D1005-EF	D1005-EF07	N/A	13	1.002	14	2500	19.8	54.5	2000	19.8	1	N/A	
D1005-EF	D1005-EF08	N/A	13	1.002	10.2	1800	19.8	54.4	1800	19.8	1	N/A	