## KOHLER COMPANY

EXECUTIVE ORDER: U-R-060-0100-2 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	RKHXN01.4SF1	Diesel	Dedicated	Diesel	Marine Engine

Emission Control Systems	Special Features
[1]: Indirect Diesel Injection (IDI)	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	Smoke Opacity					
Applicable Standard		NMHC+NOx	СО	PM	ACL	LUG	PEAK
	STD	7.5	6.6	0.80	*	*	*
Tier 2 8 ≤ kW < 19	FEL	*	*	*	*	*	*
0 = KVV 1 13	NTE	*	*	*	*	*	*

**BE IT FURTHER RESOLVED:** That certification to the standards in 13 CCR 2423(b)(1)(B) - Table 1b listed above has been permitted pursuant to Endnote 1 of the same table.

**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.

This Executive Order hereby supersedes Executive Order U-R-060-0100-1 dated August 21, 2023.

Executed on this \_\_\_\_\_28th\_\_\_ day of November 2023.

Robin U. Lang, Chief

**Emissions Certification and Compliance Division** 

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## ATTACHMENT: ENGINE MODELS

Family: RKHXN01.4SF1 EO Number: U-R-060-0100-2 Date Applicable: 11/14/2023

					Peak Power			Peak Torque					
Model	Code	Trim	Config	Displacement	Power	Speed	Fueling	Torque	Speed	Fueling	ECS Num	GHG	Notes
-	-	-	-	L	kW	rpm	mm3/stroke	N-m	rpm	mm3/stroke	-	-	-
KDW1003 (1800 Const)	N/A	N/A	13	1.028	9.5	1800	18.8	50	1800	18.8	1	N/A	N/A
KDW 1003	N/A	N/A	13	1.028	10.9	1800	20.5	57	1800	20.5	1	N/A	N/A
KDW702 (3600 Const)	N/A	N/A	12	0.686	11.5	3600	18	31	3600	18	1	N/A	N/A
KDW1404 (1800 Const)	N/A	N/A	14	1.371	13	1800	19	69	1800	19	1	N/A	N/A
KDW 1404	N/A	N/A	14	1.371	14.6	1800	21	77	1800	21	1	N/A	N/A
KDW1003 (3600 Const)	N/A	N/A	13	1.028	18.4	3600	18.8	49	3600	18.8	1	N/A	N/A

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