

## **KOHLER COMPANY**

## **EXECUTIVE ORDER U-R-060-0074**

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

Pursuant to the authority vested in California 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-19-095;

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)					
2021	MKHXL03.4TCR	3.359	Diesel	8000					
SPECIAL	FEATURES & EMISSION O	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION						
	c Direct Injection, Turbo Module, Exhaust Gas R Oxidation Catal	ecirculation, Diesel	Crane, Loaders, Tractor, Generator Set						

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	EMISSION				EXHAUST (g/kw-l	OPACITY (%)				
POWER CLASS	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
37 ≤ kW < 56	Tier 4 Final	Tier 4 Final STD		N/A	4.7	5.0	0.03	N/A	N/A	N/A
		CERT			3.4	0.2	0.01			

**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).

**BE IT FURTHER RESOLVED:** The listed engine family is conditionally certified pending submission of additional test data to verify compliance with useful-life emission standards. The manufacturer has until May 24, 2021 to provide test data to confirm or correct the certification emissions levels on this conditional certification. Failure to resolve concerns by the specified date, shall be cause for the Executive Officer to rescind this conditional certification, in which case all engines covered under this conditional certification would be deemed uncertified and subject to civil penalties pursuant to Health and Safety Code Section 43154.

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 on this <u>29th</u> day of December 2020.

Allen Lyons, Chief

**Emissions Certification and Compliance Division** 

Attachment: Engine Models EO #: U-R-060-0074 Family: MKHXL03.4TCR Attachment Last Revised: 12/2/2020

			Config	Displacement	Displacement -		Peak Power -	Peak Power -	Peak Power -	Peak Power - Fue		Peak Torque -	Peak Torque -						
Model	Code	Trim			Units	Peak Power	Units	Speed (rpm)	Fueling	Units	Peak Torque	Units	Speed (rpm)	Fuel	Fuel Units	OBD	GHG	Special	Notes
KDI 3404TCR/22C	N/A	N/A	14	3.359	Liters	74.3	horsepower	2200	28.1	lb/hr	276.6	lb-ft	1400	25.6	lb/hr	N/A	N/A		DDI, ECM, DOC, EGR, TC
KDI 3404TCR/G18 (Constant Speed)	N/A	N/A	14	3.359	Liters	74.3	horsepower	1800	27.7	lb/hr	216.8	lb-ft	1800	27.7	lb/hr	N/A	N/A		DDI, ECM, DOC, EGR, TC
KDI 3404TCR/25	N/A	N/A	14	3.359	Liters	74.3	horsepower	2200	30.3	lb/hr	276.6	lb-ft	1400	25.6	lb/hr	N/A	N/A		DDI, ECM, DOC, EGR, TC
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