

## **KOHLER COMPANY**

## **EXECUTIVE ORDER U-R-060-0082**

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)			
2022	NKHXL03.4TDS	3.359	Diesel	8000			
SPECIAL	FEATURES & EMISSION O	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION				
Modu Cata	onic Direct Injection, El le, Diesel Oxidation Ca alytic Reduction – Urea ation, Turbocharger, Al Catalyst	talyst, Selective , Exhaust Gas	Off-Road Crane, Loaders, Tractor, Pump, 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-hr)				OPACITY (%)			
POWER CLASS	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 4 Final	STD	0.19	0.40	N/A	5.0	0.02	N/A	N/A	N/A
		CERT	0.03	0.21		0.1	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).

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>22nd</u> day of June 2021.

Allen Lyons, Chief

**Emissions Certification and Compliance Division** 

**Attachment: Engine Models** EO #: U-R-060-0082 Family: NKHXL03.4TDS Attachment Revised: 5/25/2021 Displacement -Peak Torque -Peak Power - Peak Power -Peak Power - Peak Power -Peak Torque -Peak Torque -Peak Torque -OBD GHG Special Notes Model Code Trim Config Displacement Units Peak Power Units Speed (rpm) **Fuel Units** Peak Torque Units Speed (rpm) Fuel **Fuel Units** N/A N/A 14 3.359 N/A N/A N/A DDI, ECM, DOC, SCR, EGR, TC, AMOx KDI 3404TCR/22H Liters 134.1 horsepower 2200 38.1 lb/hr 368.8 lb-ft 1400 26.3 lb/hr KDI 3404TCR/22I N/A N/A 14 3.359 Liters 120.7 horsepower 2200 35.6 lb/hr 368.8 lb-ft 1400 26.3 lb/hr N/A N/A N/A DDI, ECM, DOC, SCR, EGR, TC, AMOX KDI 3404TCR/22M N/A N/A 14 3.359 Liters 108.6 horsepower 2200 32.3 lb/hr 368.8 lb-ft 1400 26.3 lb/hr N/A N/A N/A DDI, ECM, DOC, SCR, EGR, TC, AMOX KDI 3404TCR/22L N/A N/A Liters 100.6 2200 lb/hr 361.4 1400 25.9 N/A N/A N/A DDI, ECM, DOC, SCR, EGR, TC, AMOX 14 3.359 horsepower 28.7 lb-ft lb/hr KDI 3404TCR/25A N/A N/A 3.359 Liters 100.6 horsepower 2500 28.7 361.4 lb-ft 1400 25.9 N/A N/A N/A DDI, ECM, DOC, SCR, EGR, TC, AMOx KDI 3404TCR/22N 14 3 359 108.6 2200 32.3 lh/hr 368.8 lh-ft 1400 26.3 lh/hr N/A N/A N/A DDI, ECM, DOC, SCR, EGR, TC, AMOX N/A N/A Liters horsepower KDI 3404TCR/220 N/A N/A 14 3.359 Liters 134.1 horsepower 2200 38.1 lb/hr 368.8 lb-ft 1400 26.3 lb/hr N/A N/A N/A DDI, ECM, DOC, SCR, EGR, TC, AMOX