

KOHLER COMPANY

EXECUTIVE ORDER U-R-060-0087

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)					
2023	PKHXL01.4KSD	1.4	1.4 Diesel						
SPECIAL	. FEATURES & EMISSION C	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION						
Indirect [Diesel Injection, Turboc Cooler	harger, Charge Air	Loader, Tractor, Pump, Compressor, 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			ı	EXHAUST (g/kw-ł	OPACITY (%)				
POWER CLASS	STANDARD CATEGORY		NMHC NOx		NMHC+NOx	СО	PM	ACCEL	LUG	PEAK
8 ≤ kW < 19	Tier 4 Final	STD	N/A	N/A	7.5	6.6	0.40	20	15	50
		CERT			6.2	4.6	0.14	18	14	27

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 6th day of October 2022.

Robin U. Lang, Chief

Emissions Certification and Compliance Division

Attachment: Engine Models

EO #: U-R-060-0087 Family: PKHXL01.4KSD Attachment Revised: 9/21/2022

Model	Code	Trim	Config	Displacement	Displacement - Units	Peak Power	Peak Power - Units	Peak Power - Speed (rpm)	Peak Power - Fueling	Peak Power - Fuel Units	Peak Torque	Peak Torque - Units	Peak Torque - Speed (rpm)	Peak Torque - Fuel	Peak Torque - Fuel Units	OBD	GHG	Special	Notes
KSD-TCA 1403/22	N/A	N/A	13	1.391	Liters	18.4	kilowatt	2200	10.5	lb/hr	120	N-m	1400	9.5	lb/hr	N/A	N/A	N/A	IDI, ECM, TC
KSD-TCA 1403/23	N/A	N/A	13	1.391	Liters	18.4	kilowatt	2300	12.4	lb/hr	120	N-m	1400	9.5	lb/hr	N/A	N/A	N/A	IDI, ECM, TC
KSD-TCA 1403/24	N/A	N/A	13	1.391	Liters	18.4	kilowatt	2400	11.6	lb/hr	120	N-m	1400	9.5	lb/hr	N/A	N/A	N/A	IDI, ECM, TC
KSD-TCA 1403/26	N/A	N/A	13	1.391	Liters	18.4	kilowatt	2600	10.7	lb/hr	120	N-m	1400	9.5	lb/hr	N/A	N/A	N/A	IDI, ECM, TC
KSD-TCA 1403/30	N/A	N/A	13	1.391	Liters	18.4	kilowatt	3000	11.0	lb/hr	120	N-m	1400	9.5	lb/hr	N/A	N/A	N/A	IDI, ECM, TC
KSD-TCAG 1403/18	N/A	N/A	13	1.391	Liters	18.4	kilowatt	1800	9.7	lb/hr	97.5	N-m	1800	9.7	lb/hr	N/A	N/A	N/A	IDI, ECM, TC
KSD-TC 1403/22	N/A	N/A	13	1.391	Liters	18.4	kilowatt	2200	10.9	lb/hr	105	N-m	1500	9.3	lb/hr	N/A	N/A	N/A	IDI, ECM, TC
KSD-TC 1403/23	N/A	N/A	13	1.391	Liters	18.4	kilowatt	2300	12.9	lb/hr	105	N-m	1500	9.3	lb/hr	N/A	N/A	N/A	IDI, ECM, TC
KSD-TC 1403/24	N/A	N/A	13	1.391	Liters	18.4	kilowatt	2400	11.6	lb/hr	105	N-m	1500	9.3	lb/hr	N/A	N/A	N/A	IDI, ECM, TC
KSD-TC 1403/26	N/A	N/A	13	1.391	Liters	18.4	kilowatt	2600	10.7	lb/hr	105	N-m	1500	9.3	lb/hr	N/A	N/A	N/A	IDI, ECM, TC
KSD-TC 1403/30	N/A	N/A	13	1.391	Liters	18.4	kilowatt	3000	11.0	lb/hr	105	N-m	1500	9.3	lb/hr	N/A	N/A	N/A	IDI, ECM, TC
KSD-TCG 1403/18	N/A	N/A	13	1.391	Liters	18.4	kilowatt	1800	10.0	lb/hr	97.5	N-m	1800	10.0	lb/hr	N/A	N/A	N/A	IDI, ECM, TC
KSD-NA 1403/22	N/A	N/A	13	1.391	Liters	18.4	kilowatt	2200	11.4	lb/hr	90	N-m	1800	9.2	lb/hr	N/A	N/A	N/A	IDI, ECM
KSD-NA 1403/24	N/A	N/A	13	1.391	Liters	18.4	kilowatt	2400	10.7	lb/hr	90	N-m	1800	9.2	lb/hr	N/A	N/A	N/A	IDI, ECM
KSD-NA 1403/26	N/A	N/A	13	1.391	Liters	18.4	kilowatt	2600	10.7	lb/hr	90	N-m	1800	9.2	lb/hr	N/A	N/A	N/A	IDI, ECM
KSD-NA 1403/30	N/A	N/A	13	1.391	Liters	18.4	kilowatt	3000	10.5	lb/hr	90	N-m	1800	9.2	lb/hr	N/A	N/A	N/A	IDI, ECM
KSD-NAG 1403/18	N/A	N/A	13	1.391	Liters	17	kilowatt	1800	9.2	lb/hr	90	N-m	1800	9.2	lb/hr	N/A	N/A	N/A	IDI, ECM