

DEUTZ AG

EXECUTIVE ORDER U-R-013-0648

New Off-Road Compression-Ignition Engines

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	NDZXL02.2111	2.193	Diesel	8000					
SPECIAL	FEATURES & EMISSION (CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION						
Exhau	non Rail Direct Injection st Gas Recirculation, E Module, Diesel Oxidatio	lectronic Control	Tractor, Dozer, Material Ha	andler					

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			I	EXHAUST (g/kw-l	OPACITY (%)				
POWER CLASS	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
19 ≤ kW < 56	Tier 4 Final	STD	N/A	N/A	4.7	5.0	0.03	N/A	N/A	N/A
		CERT			4.2	0.7	0.02			

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: That for the listed engine models which include engines from different power categories in the same engine family, the manufacturer is complying with the more stringent set of standards from the 37 ≤ kW < 56 power category in conformance with the incorporated Section 1039.230 (e) of the "California Exhaust Emission Standards and Test Procedures for New 2011 and Later Tier 4 Off-Road Compression Ignition Engines, Part 1-D" adopted October 20, 2005 and last amended October 25, 2012.

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 18th day of December 2021.

Allen Lyons, Chief

Emissions Certification and Compliance Division

Attachment: Engine Models EO #: U-R-013-0648 Family: NDZXL02.2111 Attachment Last Revised: 12/1/2021

					Displacement -		Peak Power -	Peak Power -	Peak Power -	Peak Power - Fu	el	Peak Torque -	Peak Torque -	Peak Torque -	Peak Torque -				
Model	Code	Trim	Config	Displacement	Units	Peak Power	Units	Speed (rpm)	Fueling	Units	Peak Torque	Units	Speed (rpm)	Fuel	Fuel Units	OBD	GHG	Special	Notes
TD2.2L3	CFDI44B		L3	2.193	Liters	59.6	horsepower	2200	22.9	lb/hr	151.2	lb-ft	1600	17.2	lb/hr	N/A	N/A	N/A	N/A
TD2.2L3	CFDI44A		L3	2.193	Liters	59.6	horsepower	2300	23.3	lb/hr	151.2	lb-ft	1600	17.2	lb/hr	N/A	N/A	N/A	N/A
TD2.2L3	CFDI44		L3	2.193	Liters	59.6	horsepower	2600	25.1	lb/hr	151.2	lb-ft	1600	17.2	lb/hr	N/A	N/A	N/A	N/A
TD2.2L3	CFDI37B		L3	2.193	Liters	48.8	horsepower	2200	18.6	lb/hr	132.7	lb-ft	1600	14.9	lb/hr	N/A	N/A	N/A	N/A
TD2.2L3	CFDI37A		L3	2.193	Liters	48.8	horsepower	2300	19.1	lb/hr	132.7	lb-ft	1600	14.9	lb/hr	N/A	N/A	N/A	N/A
TD2.2L3	CFDI37		L3	2.193	Liters	48.8	horsepower	2600	20.6	lb/hr	132.7	lb-ft	1600	14.9	lb/hr	N/A	N/A	N/A	N/A
TD2.2L3	CFDI30B		L3	2.193	Liters	40.2	horsepower	2200	15.5	lb/hr	110.6	lb-ft	1600	12.3	lb/hr	N/A	N/A	N/A	N/A
TD2.2L3	CFDI30A		L3	2.193	Liters	40.2	horsepower	2300	15.9	lb/hr	110.6	lb-ft	1600	12.3	lb/hr	N/A	N/A	N/A	N/A
TD2.2L3	CFDI30		L3	2.193	Liters	40.2	horsepower	2600	17.7	lb/hr	110.6	lb-ft	1600	12.3	lb/hr	N/A	N/A	N/A	N/A
TD2.2L3	CFDI26B		L3	2.193	Liters	34.8	horsepower	2200	13.6	lb/hr	95.8	lb-ft	1600	10.7	lb/hr	N/A	N/A	N/A	N/A
TD2.2L3	CFDI26A		L3	2.193	Liters	34.8	horsepower	2300	14	lb/hr	95.8	lb-ft	1600	10.7	lb/hr	N/A	N/A	N/A	N/A
TD2.2L3	CFDI26		L3	2.193	Liters	34.8	horsepower	2600	15.8	lb/hr	95.8	lb-ft	1600	10.7	lb/hr	N/A	N/A	N/A	N/A
TD2.2L3	CFDI30BL		L3	2.193	Liters	40.2	horsepower	2200	15.5	lb/hr	96.6	lb-ft	1600	10.8	lb/hr	N/A	N/A	N/A	N/A