

## **DEUTZ AG**

**EXECUTIVE ORDER U-R-013-0624** 

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	MDZXL02.9021	2.925	Diesel 5000							
SPECIAL	FEATURES & EMISSION C	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION							
	mon Rail Direct Injection lation, Electronic Contr Oxidation Cataly	ol Module, Diesel	Off-Road Crane, Loader, Tractor, Dozer, Pump, Compressor, Material Handler, Other Industrial Equipment							

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 < 37	Tier 4 Final	STD	N/A	N/A	4.7	5.5	0.03	N/A	N/A	N/A
		CERT			4.1	4.4	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).

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 30th day of December 2020.

Allen Lyons, Chief

**Emissions Certification and Compliance Division** 

EO #: U-R-013-0624 Attachment: Engine Models

Family: MDZXL02.9021 Attachment Last Revised: 12/4/2020

Model					Displacement - Units	Peak Power	Peak Power - Units	Peak Power - Speed (rpm)	Peak Power - Fueling	Peak Power - Fuel		Peak Torque -	Peak Torque -	Peak Torque - Fuel					
	Code	Trim	Config	Displacement						Units	Peak Torque	Units	Speed (rpm)	Peak Torque - Fue	Units	OBD	GHG	Special	Notes
D2.9L4	C4DI36.4		L4	2.925	Liters	48.8	horsepower	2600	37.0	mm3/stroke	108.4	N-m	1600	36.5	mm3/stroke	N/A	N/A	N/A	N/A
D2.9L4	C4DI30		L4	2.925	Liters	40.2	horsepower	2200	34.0	mm3/stroke	108.4	N-m	1600	36.5	mm3/stroke	N/A	N/A	N/A	N/A
D2.9L4	C4DI36K		L4	2.925	Liters	48.8	horsepower	2600	37	mm3/stroke	108.4	N-m	1600	36.5	mm3/stroke	N/A	N/A	N/A	N/A
D2.9L4	C4DI35		L4	2.925	Liters	46.9	horsepower	2600	35	mm3/stroke	108.4	N-m	1600	36.5	mm3/stroke	N/A	N/A	N/A	N/A