## **DEUTZ AG**

EXECUTIVE ORDER U-R-013-0631 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)		
2021	MDZXL02.2112	2.193	Diesel	3000		
SPECIAL	FEATURES & EMISSION O	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION			
Common F	Rail Direct Injection, Elect	ronic Control Module	Compressor, Material Handlers			

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 POWER CLASS		EMISSION STANDARD CATEGORY				EXHAUST (g/kW-		OPACITY (%)			
				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			6.9	3.3	0.13	1	1	2

**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 29th day of October 2020.

Allen Lyons, Chief

**Emissions Certification and Compliance Division** 

DEUTZ Nonroad CI

## **Engine Model Summary Template**

Attachment page 1 of 1

EO# U-R-013-0631 Date: 10/12/2020

				4.Fuel Rate:	5.Fuel Rate:				
				mm/stroke @	(lbs/hr) @ peak		7.Fuel Rate:	8.Fuel Rate:	
			3.BHP@RPM	peak HP	HP	6.Torque @ RPM	mm/stroke @	(lbs/hr) @	
Engine Family	1.Engine Code	2.Engine Model	(SAE Gross)	(for Diesel only)	(for diesel only)	(SAE Gross)	peak torque	peak torque	9.Emission Control Device Per SAE J1930
MDZXL02.2112	C50I18B	D2.2L3	24.6@2200	28.8	10.5	92.1@1300	42.0	9.0	DDI,ECM
MD7XL02 2112	C5OI18A	D2 213	24 6@2300	28 1	10.7	92 1@1300	42 N	9.0	DDI FCM