

DEUTZ AG

EXECUTIVE ORDER U-R-013-0643 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	MDZXL03.6063	3.621	Diesel	8000			
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION				
Common Rail Direct Injection, Turbocharger, Charge Air Cooler, Exhaust Gas Recirculation, Electronic Control Module, Diesel Oxidation Catalyst			Loader, Tractor, Dozer, Material Handler, Small Cranes				

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-hr)					OPACITY (%)		
			NMHC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
37 <u><</u> kW < 56	Tier 4 Final	STD	N/A	N/A	4.7	5.0	0.03	N/A	N/A	N/A
		CERT			4.6	0.9	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 <u>29th</u> day of November 2020.

Allen Lyons, Chief

Emissions Certification and Compliance Division

EO #: U-R-013-0643 **Attachment: Engine Models** Family: MDZXL03.6063 Attachment Last Revised: 11/16/2020 Peak Power - Peak Power -Peak Power - Peak Power -Displacement -Peak Torque -Peak Torque -Peak Torque -Peak Torque -Fueling OBD GHG Special Model Code Trim Config Displacement Units Peak Power Units Speed (rpm) Fuel Units Peak Torque Units Fuel Fuel Units Notes Speed (rpm) TCD3.6L4 C4DI55A L4 3.621 Liters 74.2 horsepower 2300 58 mm3/stroke 390 1300 87 mm3/stroke N/A N/A N/A N/A TCD3.6L4 C4DI55 L4 3.621 74.2 2200 58.5 mm3/stroke 1300 87 mm3/stroke N/A N/A N/A N/A Liters horsepower 390 N-m 74.2 TCD3.6L4 C4DI55B 3.621 Liters horsepower 2200 58.5 mm3/stroke N-m 1300 87 mm3/stroke N/A N/A N/A N/A