

DEUTZ AG

EXECUTIVE ORDER U-R-013-0602 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 LIF (hours)			
2020	LDZXL02.9021	2.925	Diesel	5000			
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT	APPLICATION			
Com	mon Rail Direct Injectio ulation, Electronic Contr Oxidation Catal	ol Module, Diesel	Crane, Loader, Tractor, Dozer, Pump, Compressor				

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		EXHAUST (g/kW-hr)					OPACITY (%)		
CLASS	STANDARD		NMHC	NOx	NMHC+NOx	СО	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	4.6	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 at El Monte, California on this

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Allen Lyons, Chief

Emissions Certification and Compliance Division

day of November 2019.

Deutz AG Nonroad CI

Engine Model Summary Template page 1 of 1

Attachment

4. Fuel Rate:

EO# U-R-013-0602

Date: 11/13/2019

5. Fuel Rate: (lbs/hr) @ peak

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	mm/stroke @ peak HP (for diesel only)	HP (for diesels only)		7.Fuel Rate: nm/stroke@pe ak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930	
LDZXL02.9021	C4DI36,4	D2.9L4	48.8@2600	37.0	21.3	108.4@1600	36.5	12.9	DDI, EGR, ECM, DOC	
LDZXL02.9021	C4DI30	D2.9L4	40.2@2200	34.0	16.6	108.4@1600	36.5	12.9	DDI, EGR, ECM, DOC	
LDZXL02.9021	C4DI36K	D2.9L4	48.8@2600	37.0	21.3	108.4@1600	36.5	12.9	DDI, EGR, ECM, DOC	
LDZXI 02 9021	C4DI35	D2 9I 4	46 9@2600	35.0	20.2	108 4@1600	36.5	129	DDI EGR ECM DOC	