

## **DEUTZ AG**

## **EXECUTIVE ORDER U-R-013-0653**

New Off-Road Compression-Ignition Engines Page 1 of 2

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	NDZXL04.1054	4.038	Diesel	8000				
SPECIAL	. FEATURES & EMISSION (	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION					
Charge Exhau	non Rail Direct Injection e Air Cooler, Electronic ust Gas Recirculation, I st, Continuous Trap Ox Catalytic Reduction	Control Module, Diesel Oxidation kidizer, Selective	Loader, 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 POWER CLASS	EMISSION				EXHAUST (g/kw-l		OPACITY (%)			
	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	СО	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 4 Final	STD	0.19	0.40	N/A	5.0	0.02	N/A	N/A	N/A
		CERT	0.02	0.32		0.5	0.01			

**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 the listed engine family is conditionally certified pending submission of additional test data to verify compliance with useful-life emission standards. The manufacturer must submit the necessary data by March 31, 2022 to confirm or correct the certification emissions levels on this conditional certification. Failure to submit the necessary data or resolve concerns by the specified date, shall be cause for the Executive Officer to rescind this conditional certification, in which case all engines covered under this conditional certification and introduced into commerce in the State of California shall be deemed uncertified pursuant to Health and Safety Code Section 43153 and subject to civil penalties pursuant to Health and Safety Code Section 43154.



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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>3rd</u> day of January 2022.

Allen Lyons, Chief

**Emissions Certification and Compliance Division** 

**Attachment: Engine Models** 

EO #: U-R-013-0653

Family: NDZXL04.1054

Attachment Last Revised: 12/28/2021

					Displacement -		Peak Power -	Peak Power -	Peak Power -	Peak Power - Fu	iel	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
D4J	CFVI85		14	4.038	Liters	113.9	horsepower	2000	40.4	lb/hr	476	N-m	1500	34.3	lb/hr	N/A	N/A	N/A	N/A
D4J	CFVI80		14	4.038	Liters	107.2	horsepower	2000	38.2	lb/hr	476	N-m	1500	34.3	lb/hr	N/A	N/A	N/A	N/A
D4J	CFVI110		14	4.038	Liters	147.5	horsepower	2000	53.3	lb/hr	609	N-m	1600	48.7	lb/hr	N/A	N/A	N/A	N/A
D4J	CFVI80A		14	4.038	Liters	107.2	horsepower	2000	38.2	lb/hr	476	N-m	1500	34.3	lb/hr	N/A	N/A	N/A	N/A
D4J	CFVI90		14	4.038	Liters	120.6	horsepower	2000	42.2	lb/hr	566	N-m	1500	40.9	lb/hr	N/A	N/A	N/A	N/A
D4J	CFVI110A		14	4.038	Liters	147.5	horsepower	2000	53.3	lb/hr	609	N-m	1600	48.7	lb/hr	N/A	N/A	N/A	N/A
D4J	CFVI105		14	4.038	Liters	140.8	horsepower	2000	47.5	lb/hr	609	N-m	1600	48.7	lb/hr	N/A	N/A	N/A	N/A
D4J	CFVI98		14	4.038	Liters	131.4	horsepower	2200	48.3	lb/hr	568	N-m	1650	45.8	lb/hr	N/A	N/A	N/A	N/A
D4J	CFVI110B		14	4.038	Liters	147.5	horsepower	2200	53.2	lb/hr	609	N-m	1600	48.7	lb/hr	N/A	N/A	N/A	N/A
D4J	CFVI110C		14	4.038	Liters	147.5	horsepower	2200	53.2	lb/hr	609	N-m	1600	48.7	lb/hr	N/A	N/A	N/A	N/A
D4J	CFVI98A		14	4.038	Liters	131.4	horsepower	2200	48.3	lb/hr	568	N-m	1650	45.8	lb/hr	N/A	N/A	N/A	N/A
D4J	CFVI98B		14	4.038	Liters	131.4	horsepower	2200	48.3	lb/hr	568	N-m	1650	45.8	lb/hr	N/A	N/A	N/A	N/A
D4J	CFVI98C		14	4.038	Liters	131.4	horsepower	2200	48.3	lb/hr	568	N-m	1650	45.8	lb/hr	N/A	N/A	N/A	N/A
D4J	CFVI75		14	4.038	Liters	100.5	horsepower	2200	37.6	lb/hr	425	N-m	1450	30.2	lb/hr	N/A	N/A	N/A	N/A
D4J	CFVI87		14	4.038	Liters	116.6	horsepower	2200	42.5	lb/hr	490	N-m	1450	34.7	lb/hr	N/A	N/A	N/A	N/A
D4J	CFVI110D		14	4.038	Liters	147.5	horsepower	2000	53.3	lb/hr	609	N-m	1600	48.7	lb/hr	N/A	N/A	N/A	N/A
D4J	CFVI115		14	4.038	Liters	154.2	horsepower	2000	55.9	lb/hr	618	N-m	1700	52.1	lb/hr	N/A	N/A	N/A	N/A