DEUTZ AG

EXECUTIVE ORDER U-R-013-0694

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)			
2023	PDZXL07.8046	7.755	Diesel	8000			
SPECIAL	FEATURES & EMISSION C	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION				
Charge Exhau	non Rail Direct Injection e Air Cooler, Electronic ıst Gas Recirculation, C er, Diesel Oxidation Ca Catalytic Reduction	Control Module, Continuous Trap Italyst, Selective	Loader, Dozer, Pump, Compressor, Material Handler				

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 STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
POWER CLASS			NMHC	NOx	NMHC+NOx	СО	PM	ACCEL	LUG	PEAK
130 ≤ kW ≤ 560	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.002	0.30		0.2	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>13th</u> day of September 2022.

Robin U. Lang, Chief

Emissions Certification and Compliance Division

Jolin U. Lang

Attachment: Engine Models EO #: U-R-013-0694 Family: PDZXL07.8046 Attachment Last Revised:

Displacement -Peak Power -Peak Power -Peak Power -Peak Power - Fuel Peak Torque -Peak Torque -Peak Torque - Fuel Model Code Trim Config Displacement Units Peak Power Units Fueling Units Peak Torque Units Peak Torque - Fuel Units OBD GHG Special Notes Speed (rpm) Speed (rpm) D8J CFVI160 7.755 Liters 214.5 horsepower 1800 74.3 lb/hr 1110 1350 70.6 lb/hr N/A N/A N/A N/A D8J CFVI210 7.755 Liters 281.5 horsepower 1800 95.9 lb/hr 1360 N-m 1350 86.4 lb/hr N/A N/A N/A N/A D8J CFVI180 16 7.755 Liters 241.3 horsepower 1800 81.5 lb/hr 1238 N-m 1350 77.8 lb/hr N/A N/A N/A N/A D8J CFVI180A 16 7.755 Liters 241.3 1800 81.5 lb/hr 1238 N-m 1350 77.8 lb/hr N/A N/A N/A horsepower N/A D8J CFVI175 7.755 234.6 79.7 lb/hr 1230 1500 86 lb/hr N/A N/A 16 Liters horsepower 1800 N-m N/A N/A D8J CFVI175A 16 7.755 Liters 234.6 horsepower 1800 79.7 lb/hr 1230 N-m 1500 86 lb/hr N/A N/A N/A N/A D8J CFVI200 16 7.755 Liters 268.1 2000 93.3 lb/hr 1273 N-m 1500 90 lb/hr N/A horsepower N/A N/A N/A D8J CFVI187 16 7.755 Liters 250.7 2100 88.8 lb/hr 1096 1500 77.5 lb/hr N/A horsepower N-m N/A N/A N/A D8J CFVI209 16 7.755 Liters 280.2 horsepower 2100 97.9 lb/hr 1236 N-m 1500 87 lb/hr N/A N/A N/A N/A D8J CFVI176 16 7.755 Liters 236 horsepower 2100 82.5 lb/hr 1250 N-m 1450 86 lb/hr N/A N/A N/A N/A D8J CFVI180B 16 7.755 Liters 241.3 horsepower 2100 85.3 lb/hr 1330 N-m 1450 90.4 lb/hr N/A N/A N/A N/A D8J CFVI165 7.755 Liters 221.2 horsepower 2100 76.9 lb/hr 1076 N-m 1500 83.5 lb/hr N/A N/A N/A N/A SD80F CFVI176A 7.755 Liters 236 horsepower 2100 82.5 lb/hr 1250 N-m 1450 86 lb/hr N/A N/A N/A N/A SD80F CFVI180S 16 7.755 Liters 241.3 2100 85.3 lb/hr 1330 N-m 1450 90.4 lb/hr N/A N/A N/A horsepower N/A

9/6/2022