DEUTZ AG

EXECUTIVE ORDER U-R-013-0693

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	PDZXL05.7053	5.702	Diesel	8000					
SPECIAL	. FEATURES & EMISSION C	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	Off-Road Crane, Loader, Tractor, 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				EXHAUST (g/kw-ł		OPACITY (%)			
POWER CLASS	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	0.03	0.30		0.1	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).

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>/3th</u> day of September 2022.

Robin U. Lang, Chief

Emissions Certification and Compliance Division

Jolin U. Kang

Attachment: Engine Models EO #: U-R-013-0693 Family: PDZXL05.7053 Attachment Last Revised: 9/6/2022

					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	Speed (rpm)	Fueling	Units	Peak Torque	Units	Speed (rpm)	Peak Torque - Fuel U		OBD	GHG	Special	Notes
D6J	CFVI129A		I-6	5.702	Liters	172.9	horsepower	1800	60.5	lb/hr	850	N-m	1350	55.3	lb/hr	N/A	N/A	N/A	N/A
D6J	CFVI129B		I-6	5.702	Liters	172.9	horsepower	1800	60.5	lb/hr	850	N-m	1350	55.3	lb/hr	N/A	N/A	N/A	N/A
D6J	CFVI129C		I-6	5.702	Liters	172.9	horsepower	2000	63.9	lb/hr	850	N-m	1350	55.3	lb/hr	N/A	N/A	N/A	N/A
D6J	CFVI115A		I-6	5.702	Liters	154.2	horsepower	1900	62.6	lb/hr	716	N-m	1400	47.8	lb/hr	N/A	N/A	N/A	N/A
D6J	CFVI129E		I-6	5.702	Liters	172.9	horsepower	2000	63.9	lb/hr	850	N-m	1350	55.3	lb/hr	N/A	N/A	N/A	N/A
D6J	CFVI129F		I-6	5.702	Liters	172.9	horsepower	2000	63.9	lb/hr	850	N-m	1350	55.3	lb/hr	N/A	N/A	N/A	N/A
D6J	CFVI129G		I-6	5.702	Liters	172.9	horsepower	2000	63.9	lb/hr	850	N-m	1350	55.3	lb/hr	N/A	N/A	N/A	N/A
D6J	CFVI129H		I-6	5.702	Liters	172.9	horsepower	2000	63.9	lb/hr	850	N-m	1350	55.3	lb/hr	N/A	N/A	N/A	N/A
D6J	CFVI98		I-6	5.702	Liters	131.4	horsepower	2200	52.4	lb/hr	820	N-m	1400	54.8	lb/hr	N/A	N/A	N/A	N/A
D6J	CFVI115		I-6	5.702	Liters	154.2	horsepower	2200	59.7	lb/hr	850	N-m	1400	56.2	lb/hr	N/A	N/A	N/A	N/A
SD60F	CFVI115S		I-6	5.702	Liters	154.2	horsepower	2200	59.7	lb/hr	850	N-m	1400	56.2	lb/hr	N/A	N/A	N/A	N/A
SD60F	CFVI98S		I-6	5.702	Liters	131.4	horsepower	2200	52.4	lb/hr	820	N-m	1400	54.8	lb/hr	N/A	N/A	N/A	N/A
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