

DEUTZ AG

EXECUTIVE ORDER U-R-013-0659-1

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)					
2022	NDZXL07.8051	7.755	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	Off-Road Crane, Loader, Dozer, Pump, 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			ı	EXHAUST (g/kw-ł	OPACITY (%)				
POWER CLASS	STANDARD CATEGORY		NMHC NOx		NMHC+NOx	co	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	0.01	0.27		0.2	0.02		1	

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.

This Executive Order hereby supersedes Executive Order U-R-013-0659 dated January 4, 2022.

Executed on this 27th day of April 2022.

Allen Lyons, Chief

Emissions Certification and Compliance Division

Attachment: Engine Models EO #: U-R-013-0659-1 Family: NDZXL07.8051 Attachment Last Revised: 12/29/2021

Model	Code	Trim	Config	Displacement	Displacement - Units	Peak Power	Peak Power - Units	Peak Power - Speed (rpm)	Peak Power - Fueling	Peak Power - Fue Units	l Peak Torque	Peak Torque - Units	Peak Torque - Speed (rpm)	Peak Torque - Fuel	Peak Torque - Fuel Units	OBD	GHG	Special	Notes
TCD7.8L6	CFVI250		16	7.755	Liters	335.2	horsepower	2200	117.3	lb/hr	1400	N-m	1450	95.7	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6	CFVI250A		16	7.755	Liters	335.2	horsepower	2100	117.5	lb/hr	1400	N-m	1450	95.7	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6	CFVI245		16	7.755	Liters	328.5	horsepower	2000	111.3	lb/hr	1400	N-m	1450	95.7	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6	CFVI240		16	7.755	Liters	321.8	horsepower	1900	105.7	lb/hr	1400	N-m	1450	95.7	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6	CFVI230		16	7.755	Liters	308.4	horsepower	1800	103.7	lb/hr	1400	N-m	1450	95.7	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6	CFVI240A		16	7.755	Liters	321.8	horsepower	2200	112.1	lb/hr	1330	N-m	1450	88.9	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6	CFVI230A		16	7.755	Liters	308.4	horsepower	2000	103.9	lb/hr	1330	N-m	1450	88.9	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6	CFVI210		16	7.755	Liters	281.6	horsepower	1800	90.5	lb/hr	1330	N-m	1450	88.9	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6	CFVI225		16	7.755	Liters	301.7	horsepower	2200	105.5	lb/hr	1260	N-m	1450	84.6	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6	CFVI225A		16	7.755	Liters	301.7	horsepower	2100	102.8	lb/hr	1260	N-m	1450	84.6	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6	CFVI220		16	7.755	Liters	295.0	horsepower	2000	99.3	lb/hr	1260	N-m	1450	84.6	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6	CFVI215		16	7.755	Liters	288.3	horsepower	1900	96.8	lb/hr	1260	N-m	1450	84.6	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6	CFVI190		16	7.755	Liters	254.7	horsepower	1800	84.5	lb/hr	1260	N-m	1450	84.6	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6	CFVI200		16	7.755	Liters	268.2	horsepower	2200	94.5	lb/hr	1050	N-m	1450	70.6	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6	CFVI190A		16	7.755	Liters	254.7	horsepower	2000	86.6	lb/hr	1050	N-m	1450	70.6	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6	CFVI180		16	7.755	Liters	241.3	horsepower	1900	81.6	lb/hr	1050	N-m	1450	70.6	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6	CFVI170		16	7.755	Liters	227.9	horsepower	1800	75.5	lb/hr	1050	N-m	1450	70.6	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6			16	7.755	Liters	241.3	horsepower	2200	85.7	lb/hr	1000	N-m	1450	68.1	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6	CFVI175		16	7.755	Liters	234.6	horsepower	2100	81.8	lb/hr	1000	N-m	1450	68.1	lb/hr	N/A	N/A	N/A	N/A
	CFVI170A		16	7.755	Liters	227.9	horsepower	2000	77.9	lb/hr	1000	N-m	1450	68.1	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6			16	7.755	Liters	221.2	horsepower	1900	76.6	lb/hr	1000	N-m	1450	68.1	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6			16	7.755	Liters	214.5	horsepower	1800	71.9	lb/hr	1000	N-m	1450	68.1	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6			16	7.755	Liters	348.6	horsepower	2200	123.1	lb/hr	1390	N-m	1450	94.7	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6			16	7.755	Liters	227.9	horsepower	2300	84.3	lb/hr	1304	N-m	1450	89.4	lb/hr	N/A	N/A	N/A	N/A
	CFVI230C		16	7.755	Liters	308.4	horsepower	1800	103.7	lb/hr	1400	N-m	1450	95.7	lb/hr	N/A	N/A	N/A	N/A
	C5VI250		16	7.755	Liters	335.2	horsepower	2200	117.3	lb/hr	1400	N-m	1450	95.7	lb/hr	N/A	N/A	N/A	N/A
	C5VI250A		16	7.755	Liters	335.2	horsepower	2100	117.5	lb/hr	1400	N-m	1450	95.7	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6			16	7.755	Liters	328.5	horsepower	2000	111.3	lb/hr	1400	N-m	1450	95.7	lb/hr	N/A	N/A	N/A	N/A
	C5VI240		16	7.755	Liters	321.8	horsepower	1900	105.7	lb/hr	1400	N-m	1450	95.7	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6			16	7.755	Liters	308.4	horsepower	1800	103.7	lb/hr	1400	N-m	1450	95.7	lb/hr	N/A	N/A	N/A	N/A
	C5VI240A		16	7.755	Liters	321.8	horsepower	2200	112.1	lb/hr	1330	N-m	1450	88.9	lb/hr	N/A	N/A	N/A	N/A
	C5VI240A		16	7.755	Liters	308.4	horsepower	2000	103.9	lb/hr	1330	N-m	1450	88.9	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6			16	7.755	Liters	281.6	horsepower	1800	90.5	lb/hr	1330	N-m	1450	88.9	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6			16	7.755	Liters	301.7	horsepower	2200	105.5	lb/hr	1260	N-m	1450	84.6	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6			16	7.755	Liters	301.7	horsepower	2100	103.3	lb/hr	1260	N-m	1450	84.6	lb/hr	N/A	N/A	N/A	N/A
	C5VI223A		16	7.755	Liters	295.0	horsepower	2000	99.3	lb/hr	1260	N-m	1450	84.6	lb/hr	N/A	N/A	N/A	N/A
	C5VI220		16	7.755	Liters	288.3	-	1900	96.8	lb/hr	1260		1450	84.6	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6			16	7.755	Liters	254.7	horsepower	1800	84.5	lb/hr	1260	N-m N-m		84.6		-			
	C5VI200		16	7.755	-	268.2	horsepower	2200	94.5		1050	N-m	1450 1450	70.6	lb/hr	N/A N/A	N/A N/A	N/A N/A	N/A N/A
			-		Liters		horsepower			lb/hr			-		lb/hr	-			
TCD7.8L6			16	7.755	Liters	254.7	horsepower	2000	86.6	lb/hr	1050	N-m	1450	70.6	lb/hr	N/A	N/A	N/A	N/A
	C5VI180	-	16	7.755	Liters	241.3	horsepower	1900	81.6	lb/hr	1050	N-m	1450	70.6	lb/hr	N/A	N/A	N/A	N/A
	C5VI170		16	7.755	Liters	227.9	horsepower	1800	75.5	lb/hr	1050	N-m	1450	70.6	lb/hr	N/A	N/A	N/A	N/A
	C5VI180A		16	7.755	Liters	241.3	horsepower	2200	85.7	lb/hr	1000	N-m	1450	68.1	lb/hr	N/A	N/A	N/A	N/A
	C5VI175		16	7.755	Liters	234.6	horsepower	2100	81.8	lb/hr	1000	N-m	1450	68.1	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6		-	16	7.755	Liters	227.9	horsepower	2000	77.9	lb/hr	1000	N-m	1450	68.1	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6			16	7.755	Liters	221.2	horsepower	1900	76.6	lb/hr	1000	N-m	1450	68.1	lb/hr	N/A	N/A	N/A	N/A
	C5VI160		16	7.755	Liters	214.5	horsepower	1800	71.9	lb/hr	1000	N-m	1450	68.1	lb/hr	N/A	N/A	N/A	N/A
	C5VI260		16	7.755	Liters	348.6	horsepower	2200	123.1	lb/hr	1390	N-m	1450	94.7	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6			16	7.755	Liters	227.9	horsepower	2300	84.3	lb/hr	1304	N-m	1450	89.4	lb/hr	N/A	N/A	N/A	N/A
TCD7.8L6	C5VI230C		16	7.755	Liters	308.4	horsepower	1800	103.7	lb/hr	1400	N-m	1450	95.7	lb/hr	N/A	N/A	N/A	N/A