CALIFORNIA AIR RESOURCES BOARD	DEUTZ AG	EXECUTIVE ORDER U-R-013-0587 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-14-012;

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)
2019	KDZXL06.1061	6.057	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Common Rail Direct Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Exhaust Gas Recirculation, Continuous Trap Oxidizer, Selective Catalytic Reduction-Urea	Tractor

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 STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
			NMHC	NOx	NMHC+NOx	CO	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	0.04	0.25	--	0.04	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 at El Monte, California on this 25th day of September 2018.

Annette Hebert, Chief
Emissions Compliance, Automotive Regulations and Science Division

EO # U-R-013-0587

Date: 9/13/2018

Engine Model Summary Template

Attachment page 1 of 1

Deutz AG
Nonroad CI

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
KDZXL06.1061	CFWT120U	TCD6.1L6	160.9@2100	86.8	60.8	545.1@1500	108.1	54.0	DDI,TC,CAC,ECM,EGR,CTOX,SCR-U
KDZXL06.1061	CFWT106U	TCD6.1L6	142.1@2100	77.3	54.1	489.7@1500	97.1	48.5	DDI,TC,CAC,ECM,EGR,CTOX,SCR-U
KDZXL06.1061	CFWT119U	TCD6.1L6	160.7@2100	84.5	59.1	515.5@1400	101.2	47.2	DDI,TC,CAC,ECM,EGR,CTOX,SCR-U
KDZXL06.1061	CFWT109U	TCD6.1L6	146.8@2100	75,5	52.8	489.0@1400	96.0	44.7	DDI,TC,CAC,ECM,EGR,CTOX,SCR-U
KDZXL06.1061	CFWT107U	TCD6.1L6	142.1@2100	76.5	53.5	479.4@1400	95.0	44.3	DDI,TC,CAC,ECM,EGR,CTOX,SCR-U
KDZXL06.1061	CFWT125U	TCD6.1L6	166.3@2100	87.5	61.3	544.3@1500	107.0	53.5	DDI,TC,CAC,ECM,EGR,CTOX,SCR-U
KDZXL06.1061	CFWT105U	TCD6.1L6	142.1@2100	77.3	54.1	489.7@1500	97.1	48.5	DDI,TC,CAC,ECM,EGR,CTOX,SCR-U
KDZXL06.1061	CFWT118U	TCD6.1L6	160.9@2100	86.8	60.8	545.1@1500	108.1	54.0	DDI,TC,CAC,ECM,EGR,CTOX,SCR-U