California Environmental Protection Agency Air Resources Board

DEUTZ AG

EXECUTIVE ORDER U-R-013-0478 New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in the 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)			
2014	EDZXL06.1044	6.057	 Diesel 	8000			
SPECIAL	FEATURES & EMISSION C	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION				
Common F Cooler, E	Rail Direct Injection, Turb lectronic Control Module Reduction-Urea	, Selective Catalytic	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):

Γ	RATED	EMISSION		EXHAUST (g/kW-hr)					OPACITY (%)		
	POWER CLASS	STANDARD CATEGORY		имнс	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
	75 ≤ kW < 130	Interim Tier 4/ ALT NO _x	STD	0.19	3.4	N/A	5.0	0.02	N/A	N/A	N/A
1			CERT	0.17	2.7		0.6	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 at El Monte, California on this

_day of February 2014.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

Deutz AG Nonroad CI

Engine Model Summary Template

Attachment page 1 of 1

EO# U-R-013-0478 Date: 1/21/2014

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	(lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@pe ak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
EDZXL06.1044	C4ST128U	TCD6.1L6	171.6@2100	90.1	63.0	545.7@1600	106.2	56.6	DDI, TC, CAC, ECM, SCR
EDZXL06.1044	C4ST120UA	TCD6.1L6	160.9@2100	83.6	58.5	510.6@1600	99.0	52.8	DDI, TC, CAC, ECM, SCR
EDZXL06.1044	C4ST104U	TCD6.1L6	139.4@2100	76.0	53.1	460.3@1600	91.0	42.5	DDI, TC, CAC, ECM, SCR
EDZXL06.1044	C4ST103U	TCD6.1L6	139.0@2200	73.0	53.5	463.2@1400	90.0	42.0	DDI, TC, CAC, ECM, SCR

5.Fuel Rate: