

California Environmental Protection Agency <b>Air Resources Board</b>	DEUTZ AG	EXECUTIVE ORDER U-R-013-0466 New Off-Road Compression-Ignition Engines
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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-02-003;

**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)
2013	DDZXL06.1044	6.057	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Common Rail Direct Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Smoke Puff Limiter, 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 (NO<sub>x</sub>), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NO<sub>x</sub>), 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	NO <sub>x</sub>	NMHC+NO <sub>x</sub>	CO	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Interim Tier 4/ ALT NO <sub>x</sub>	STD	0.19	3.4	N/A	5.0	0.02	N/A	N/A	N/A
		CERT	0.17	2.7	--	0.5	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 14<sup>TH</sup> day of May 2013.

*M. Luanto* FOR  
Erik White, Chief **ERIK WHITE**  
Mobile Source Operations Division

Deutz AG

Nonroad CI

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Date: 5/9/2013

**Engine Model Summary Template**

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate:	5.Fuel Rate:	6.Torque @ RPM (SEA Gross)	fuel rate: mm/stroke@pe ak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
				mm/stroke @ peak HP (for diesel only)	(lbs/hr) @ peak HP (for diesels only)				
DDZXL06.1044	C4ST128U	TCD6.1L6	171.6@2100	90.1	63.0	545.7@1600	106.2	56.6	DDI, TC, CAC, ECM, SPL, SCR
DDZXL06.1044	C4ST120UA	TCD6.1L6	160.9@2100	83.6	58.5	510.6@1600	99.0	52.8	DDI, TC, CAC, ECM, SPL, SCR
DDZXL06.1044	C4ST104U	TCD6.1L6	139.4@2100	76.0	53.1	460.3@1600	91.0	42.5	DDI, TC, CAC, ECM, SPL, SCR
DDZXL06.1044	C4ST103U	TCD6.1L6	139.0@2200	73.0	53.5	463.2@1400	90.0	42.0	DDI, TC, CAC, ECM, SPL, SCR