

 <b>CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY</b> <b>AIR RESOURCES BOARD</b>	<b>DEUTZ AG</b>	<b>EXECUTIVE ORDER U-R-013-0388</b> 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)
2011	BDZXL04.8064	4.764	Diesel	8000
<b>SPECIAL FEATURES &amp; EMISSION CONTROL SYSTEMS</b>			<b>TYPICAL EQUIPMENT APPLICATION</b>	
Electronic Direct Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Smoke Puff Limiter, Exhaust Gas Recirculation			Loader, Tractor, Dozer, Pump, Compressor, Other Industrial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), 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):

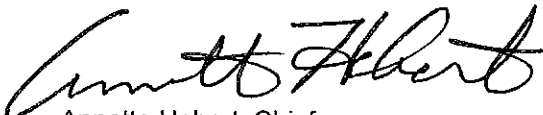
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NO <sub>x</sub>	NMHC+NO <sub>x</sub>	CO	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
		CERT	--	--	3.8	0.6	0.08	10	0	19

**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 28 day of April 2011.

  
 Annette Hebert, Chief  
 Mobile Source Operations Division

Deutz AG

Nonroad CI

Engine Model Summary Template

EO# U-R-013-0388

Attachment

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Engine Family	1.Engine Code	2.Engine Model	4.Fuel Rate:		5.Fuel Rate:		7.Fuel Rate:		8.Fuel Rate:		9.Emission Control Device Per SAE J1930
			mm/stroke @ peak HP (for diesel only)	mm/stroke @ peak HP (for diesel only)	(lbs/hr) @ peak (for diesels only)	(lbs/hr) @ peak (for diesels only)	Torque @ RPM (SEA Gross)	Torque @ RPM (SEA Gross)	(lbs/hr)@peak torque	(lbs/hr)@peak torque	
BDZXL04.8064	C3UI129	TCD2013L04	131	66.9	494.1@1600	494.1@1600	157	157	55.8	DDI, TC, CAC, ECM, SPL, EGR	55.8
BDZXL04.8064	C3UI129A	TCD2013L04	137	66.9	494.1@1600	494.1@1600	157	157	55.8	DDI, TC, CAC, ECM, SPL	55.8
BDZXL04.8064	C3UI129B	TCD2013L04	142	66.2	494.1@1600	494.1@1600	157	157	55.8	DDI, TC, CAC, ECM, SPL	55.8
BDZXL04.8064	C3UI128	TCD2013L04	150	66.6	494.1@1600	494.1@1600	164	164	58.3	DDI, TC, CAC, ECM, SPL	58.3
BDZXL04.8064	C3UI126	TCD2013L04	129	65.9	474.2@1600	474.2@1600	150	150	53.3	DDI, TC, CAC, ECM, SPL	53.3
BDZXL04.8064	C3UI125	TCD2013L04	134	65.5	474.2@1600	474.2@1600	150	150	53.3	DDI, TC, CAC, ECM, SPL	53.3
BDZXL04.8064	C3UI124	TCD2013L04	138	64.3	474.2@1600	474.2@1600	150	150	53.3	DDI, TC, CAC, ECM, SPL	53.3
BDZXL04.8064	C3UI122	TCD2013L04	140	62.2	474.2@1600	474.2@1600	150	150	53.3	DDI, TC, CAC, ECM, SPL	53.3
BDZXL04.8064	C3UI120	TCD2013L04	124	63.3	455.8@1600	455.8@1600	145	145	51.5	DDI, TC, CAC, ECM, SPL	51.5
BDZXL04.8064	C3UI119	TCD2013L04	128	62.5	455.8@1600	455.8@1600	145	145	51.5	DDI, TC, CAC, ECM, SPL	51.5
BDZXL04.8064	C3UI118	TCD2013L04	134	62.5	455.8@1600	455.8@1600	145	145	51.5	DDI, TC, CAC, ECM, SPL	51.5
BDZXL04.8064	C3UI116	TCD2013L04	136	60.4	455.8@1600	455.8@1600	145	145	51.5	DDI, TC, CAC, ECM, SPL	51.5
BDZXL04.8064	C3UI113	TCD2013L04	117	59.7	437.3@1600	437.3@1600	141	141	50.1	DDI, TC, CAC, ECM, SPL	50.1
BDZXL04.8064	C3UI112	TCD2013L04	120	58.6	437.3@1600	437.3@1600	141	141	50.1	DDI, TC, CAC, ECM, SPL	50.1
BDZXL04.8064	C3UI111	TCD2013L04	125	58.3	437.3@1600	437.3@1600	141	141	50.1	DDI, TC, CAC, ECM, SPL	50.1
BDZXL04.8064	C3UI110	TCD2013L04	128	56.8	437.3@1600	437.3@1600	141	141	50.1	DDI, TC, CAC, ECM, SPL	50.1
BDZXL04.8064	C3UI105	TCD2013L04	110	56.2	198.4@1600	198.4@1600	136	136	48.3	DDI, TC, CAC, ECM, SPL	48.3
BDZXL04.8064	C3UI104	TCD2013L04	113	55.2	419.6@1600	419.6@1600	136	136	48.3	DDI, TC, CAC, ECM, SPL	48.3
BDZXL04.8064	C3UI103	TCD2013L04	118	55	419.6@1600	419.6@1600	136	136	48.3	DDI, TC, CAC, ECM, SPL	48.3
BDZXL04.8064	C3UI102	TCD2013L04	121	53.7	419.6@1600	419.6@1600	136	136	48.3	DDI, TC, CAC, ECM, SPL	48.3
BDZXL04.8064	C3UI95	TCD2013L04	115	51.1	405.6@1600	405.6@1600	133	133	47.2	DDI, TC, CAC, ECM, SPL	47.2
BDZXL04.8064	C3UI91	TCD2013L04	111	49.3	398.2@1600	398.2@1600	127	127	45.1	DDI, TC, CAC, ECM, SPL	45.1
BDZXL04.8064	C3UI113M	TCD2013L04	118	60.3	398.2@1600	398.2@1600	141	141	50.1	DDI, TC, CAC, ECM, SPL	50.1