



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	BDZXL06.1077	6.057	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Smoke Puff Limiter, Exhaust Gas Recirculation			Tractor, 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 (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 (%)		
			HC	NOx	NMHC+NOx	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	0.9	0.12	14	7	30

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

Attachment

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EO# 0-R-013-0399

4/19/2011

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@pe ak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
BDZXL06.1077	C3CT123	TCD2012L06	164.9@2100	85	59.4	543.5@1450	107	51.7	DDI, TC, CAC, ECM, SPL, EGR
BDZXL06.1077	C3CT108	TCD2012L06	144.8@2100	76	53.1	481.6@1450	95	45.9	DDI, TC, CAC, ECM, SPL
BDZXL06.1077	C3CT93	TCD2012L06	124.7@2100	67	46.8	402.7@1450	84.5	40.8	DDI, TC, CAC, ECM, SPL,
BDZXL06.1077	C3CT124	TCD2012L06	166.6@2100	87	60.8	511.2@1600	105	55.9	DDI, TC, CAC, ECM, SPL,
BDZXL06.1077	C3CT129	TCD2012L06	173.3@2100	88.5	61.9	528.8@1600	102.5	54.6	DDI, TC, CAC, ECM, SPL,
BDZXL06.1077	C3CT121	TCD2012L06	162.5@2100	83.5	58.4	446.9@1600	87	46.3	DDI, TC, CAC, ECM, SPL,
BDZXL06.1077	C3CT97	TCD2012L06	130@2100	68.5	47.9	429.9@1600	88.5	42.7	DDI, TC, CAC, ECM, SPL,
BDZXL06.1077	C3CT120	TCD2012L06	160.6@2100	82.5	57.7	485.8@1400	95.5	44.5	DDI, TC, CAC, ECM, SPL,
BDZXL06.1077	C3CT107	TCD2012L06	142.9@2100	74.5	52.1	441.6@1400	90	41.9	DDI, TC, CAC, ECM, SPL,
BDZXL06.1077	C3CT129A	TCD2012L06	173.3@2100	87.5	61.2	549.3@1450	106	51.2	DDI, TC, CAC, ECM, SPL, ↓