



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	BDZXL06.1061	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, Exhaust Gas Recirculation			Loader, 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 (NO_x), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NO_x), 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 _x	NMHC+NO _x	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	--	--	3.9	0.9	0.07	5	5	7

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 16 day of May 2011.

Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Template

Deutz AG

Nonroad CI

Attachment

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E0# U-R-013-0396

5/11/2011

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate:		5.Fuel Rate:		7.Fuel Rate:		9.Emission Control Device Per SAE J1930
				mm/stroke @ peak HP (for diesel only)	(lbs/hr) @ peak (for diesels only)	(lbs/hr) @ peak (for diesels only)	RPM mm/stroke@pe ak torque	(lbs/hr)@peak torque		
BDZXL06.1061	C3UI124	TCD2012L06	166.2@1900	108	68.4	538.4@1500	115	57.4	DDI, TC, CAC, ECM, SPL	
BDZXL06.1061	C3UI127	TCD2012L06	170.3@1800	118	70.8	567.9@1500	121	60.4	DDI, TC, CAC, ECM, SPL	
BDZXL06.1061	C3UI120	TCD2012L06	160.9@1800	109	65.4	538.4@1500	114	56.9	DDI, TC, CAC, ECM, SPL	
BDZXL06.1061	C3UI128	TCD2012L06	171.6@2000	102	68.0	538.4@1500	115	57.4	DDI, TC, CAC, ECM, SPL	
BDZXL06.1061	C3UI114	TCD2012L06	152.8@1800	106	63.6	507.4@1500	111	55.4	DDI, TC, CAC, ECM, SPL	
BDZXL06.1061	C3UI117	TCD2012L06	156.8@1900	103	65.2	507.4@1500	111	55.4	DDI, TC, CAC, ECM, SPL	
BDZXL06.1061	C3UI121	TCD2012L06	162.2@2000	99	66.0	507.4@1500	111	55.4	DDI, TC, CAC, ECM, SPL	
BDZXL06.1061	C3UI124A	TCD2012L06	166.2@2100	97	67.9	507.4@1500	111	55.4	DDI, TC, CAC, ECM, SPL	
BDZXL06.1061	C3UI128B	TCD2012L06	171.6@2200	96	70.4	507.4@1500	111	55.4	DDI, TC, CAC, ECM, SPL	
BDZXL06.1061	C3UI114A	TCD2012L06	152.8@2000	89	59.3	501.5@1500	106	52.9	DDI, TC, CAC, ECM, SPL	
BDZXL06.1061	C3UI118	TCD2012L06	158.2@2100	94	65.8	501.5@1500	106	52.9	DDI, TC, CAC, ECM, SPL	
BDZXL06.1061	C3UI121A	TCD2012L06	162.2@2200	93	68.2	501.5@1500	106	52.9	DDI, TC, CAC, ECM, SPL	
BDZXL06.1061	C3UI124B	TCD2012L06	166.2@2300	91	69.8	501.5@1500	106	52.9	DDI, TC, CAC, ECM, SPL	
BDZXL06.1061	C3UI124C	TCD2012L06	166.2@2400	86	68.8	501.5@1500	106	52.9	DDI, TC, CAC, ECM, SPL	
BDZXL06.1061	C3UI129	TCD2012L06	172.9@1800	120	72.0	567.9@1500	121	60.4	DDI, TC, CAC, ECM, SPL	
BDZXL06.1061	C3UT120	TCD2012L06	160.9@2100	91.0	63.6	658.7@1400	110.0	51.3	DDI, TC, CAC, ECM, SPL	
BDZXL06.1061	C3UT104	TCD2012L06	140.2@2100	82.0	57.3	598.7@1400	101.0	47.1	DDI, TC, CAC, ECM, SPL	
BDZXL06.1061	C3UT96	TCD2012L06	129.4@2100	76.0	53.1	598.7@1400	101.0	47.1	DDI, TC, CAC, ECM, SPL	
BDZXL06.1061	C3UT87	TCD2012L06	117@2300	65	49.8	435.8@1600	74.0	39.4	DDI, TC, CAC, ECM, SPL	
BDZXL06.1061	C3UT123	TCD2012L06	164.9@2200	92.5	67.8	500.8@1600	109.5	58.3	DDI, TC, CAC, ECM, SPL	
BDZXL06.1061	C3UT118	TCD2012L06	158.2@2100	93	65.0	500.8@1600	109.5	58.3	DDI, TC, CAC, ECM, SPL	
BDZXL06.1061	C3UT124	TCD2012L06	166.7@2100	93	65.0	511.2@1600	110.5	58.9	DDI, TC, CAC, ECM, SPL	
BDZXL06.1061	C3UT120A	TCD2012L06	160.9@2100	91.5	64.0	658.7@1400	103.5	48.2	DDI, TC, CAC, ECM, SPL	
BDZXL06.1061	C3UT104A	TCD2012L06	142.9@2100	82.5	57.7	598.7@1400	94.0	43.9	DDI, TC, CAC, ECM, SPL	
BDZXL06.1061	C3UT96A	TCD2012L06	129.4@2100	75.5	52.8	598.7@1400	94.0	43.9	DDI, TC, CAC, ECM, SPL	
BDZXL06.1061	C3UT87A	TCD2012L06	117@2300	65	49.8	435.8@1600	74.0	39.4	DDI, TC, CAC, ECM, SPL	
BDZXL06.1061	C3UT93	TCD2012L06	124.7@2300	70.6	54.1	362.2@1600	72.2	33.6	DDI, TC, CAC, ECM, SPL	

Deutz AG
Nonroad CI

Engine Model Summary Template

EO# U-R-013-0396

Attachment

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Novara C

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 mm/stroke@pe (SEA Gross)	7.Fuel Rate: mm/stroke@pe ak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
BDZXL06.1061	C3UI129A	TCD2012L06	173.5@2400	93	74.3	507.4@1600	111	59.1	DDI, TC, CAC, ECM, SPL, EGR
BDZXL06.1061	C3UI129B	TCD2012L06	173.5@2300	98	75.1	507.4@1600	111	59.1	DDI, TC, CAC, ECM, SPL
BDZXL06.1061	C3UI129C	TCD2012L06	173.5@2100	104	72.7	538.4@1600	117	62.3	DDI, TC, CAC, ECM, SPL
BDZXL06.1061	C3UI129D	TCD2012L06	173.5@1900	116	73.4	567.9@1500	121	64.5	DDI, TC, CAC, ECM, SPL