

 CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY AIR RESOURCES BOARD	DEUTZ AG	EXECUTIVE ORDER U-R-013-0379 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	BDZXLO3.6097	3.619	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Mechanical Direct Injection, Turbocharger, Exhaust Gas Recirculation			Loaders, 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
56 ≤ kW < 75	Tier 3	STD	N/A	N/A	4.7	5.0	0.40	20	15	50
		CERT	--	--	4.6	1.4	0.17	3	2	5

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 21 day of April 2011.


Annette Hebert, Chief
Mobile Source Operations Division

Deutz AG

Engine Model Summary Template

EO# U-R-013-0379

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Nonroad CI

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@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
			3.BHP@RPM (SAE Gross)	mm/stroke @ peak HP (for diesel only)	mm/stroke @ peak HP (for diesel only)	(lbs/hr) @ peak HP (for diesels only)						
BDZXL03.6097	C3UI56	TD2011L04	75.1@2600	58	33.5	250@1600	65	23.1	DDI, TC, EGR			
BDZXL03.6097	C3UI57.6	TD2011L04i	77.2@2600	60	34.7	240@1600	64	22.8	DDI, TC, EGR			
BDZXL03.6097	C3UI56.5	TD2011L04i	75.8@2500	60	33.9	240@1600	64	22.8	DDI, TC, EGR			
BDZXL03.6097	C3UI59.3	TD2011L04i	79.5@200	62	35.2	240@1600	64	22.8	DDI, TC, EGR			
BDZXL03.6097	C3UI59A	D3,6DCDE3	79.5@2600	62	35.2	240@1600	64	22.8	DDI, TC, EGR			
BDZXL03.6097	C3UI59V	D3,6DCDE3	79.5@2600	62	35.2	240@1600	64	22.8	DDI, TC, EGR			
BDZXL03.6097	C3UI57H	TD2011L04i	77.2@2600	60	34.7	240@1600	64	22.8	DDI, TC, EGR			
BDZXL03.6097	C3UI57J	TD2011L04i	77.2@2600	60	34.7	240@1600	64	22.8	DDI, TC, EGR			
BDZXL03.6097	C3UI57L	TD2011L04i	77.2@2600	60	34.7	240@1600	64	22.8	DDI, TC, EGR			
BDZXL03.6097	C3UI57N	TD2011L04i	77.2@2600	60	34.7	240@1600	64	22.8	DDI, TC, EGR			
BDZXL03.6097	C3UI57P	TD2011L04i	77.2@2600	60	34.7	240@1600	64	22.8	DDI, TC, EGR			
BDZXL03.6097	C3UI57R	TD2011L04i	77.2@2600	60	34.7	240@1600	64	22.8	DDI, TC, EGR			
BDZXL03.6097	C3UI57S	TD2011L04i	77.2@2600	60	34.7	240@1600	64	22.8	DDI, TC, EGR			
BDZXL03.6097	C3UI57T	TD2011L04i	77.2@2600	60	34.7	240@1600	64	22.8	DDI, TC, EGR			
BDZXL03.6097	C3UI57U	TD2011L04i	77.2@2600	60	34.7	240@1600	64	22.8	DDI, TC, EGR			
BDZXL03.6097	C3UI57Q	TD2011L04i	77.2@2600	60	34.7	240@1600	64	22.8	DDI, TC, EGR			
BDZXL03.6097	C3UI56H	TD2011L04i	75.8@2500	60	33.9	240@1600	64	22.8	DDI, TC, EGR			
BDZXL03.6097	C3UI56J	TD2011L04i	75.8@2500	60	33.9	240@1600	64	22.8	DDI, TC, EGR			
BDZXL03.6097	C3UI56L	TD2011L04i	75.8@2500	60	33.9	240@1600	64	22.8	DDI, TC, EGR			
BDZXL03.6097	C3UI56N	TD2011L04i	75.8@2500	60	33.9	240@1600	64	22.8	DDI, TC, EGR			
BDZXL03.6097	C3UI56P	TD2011L04i	75.8@2500	60	33.9	240@1600	64	22.8	DDI, TC, EGR			
BDZXL03.6097	C3UI56R	TD2011L04i	75.8@2500	60	33.9	240@1600	64	22.8	DDI, TC, EGR			
BDZXL03.6097	C3UI56S	TD2011L04i	75.8@2500	60	33.9	240@1600	64	22.8	DDI, TC, EGR			
BDZXL03.6097	C3UI56T	TD2011L04i	75.8@2500	60	33.9	240@1600	64	22.8	DDI, TC, EGR			
BDZXL03.6097	C3UI56U	TD2011L04i	75.8@2500	60	33.9	240@1600	64	22.8	DDI, TC, EGR			
BDZXL03.6097	C3UI56Q	TD2011L04i	75.8@2500	60	33.9	240@1600	64	22.8	DDI, TC, EGR			
BDZXL03.6097	C3UI59H	TD2011L04i	79.5@2600	62	35.2	240@1600	64	22.8	DDI, TC, EGR			

Engine Model Summary Template

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EO# U-R-013-0399

Attachment

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Nonroad CI

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Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate:		5.Fuel Rate:		7.Fuel Rate:		8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
				mm/stroke @ peak HP (for diesel only)	mm/stroke @ peak HP (for diesels only)	(lbs/hr) @ peak HP	(for diesels only)	mm/stroke@peak torque	mm/stroke@peak torque		
BDZXL03.6097	C3UI59J	TD2011L04i	79.5@2600	62	62	35.2	35.2	240@1600	64	22.8	DDI, TC, EGR
BDZXL03.6097	C3UI59L	TD2011L04i	79.5@2600	62	62	35.2	35.2	240@1600	64	22.8	DDI, TC, EGR
BDZXL03.6097	C3UI59N	TD2011L04i	79.5@2600	62	62	35.2	35.2	240@1600	64	22.8	DDI, TC, EGR
BDZXL03.6097	C3UI59P	TD2011L04i	79.5@2600	62	62	35.2	35.2	240@1600	64	22.8	DDI, TC, EGR
BDZXL03.6097	C3UI59R	TD2011L04i	79.5@2600	62	62	35.2	35.2	240@1600	64	22.8	DDI, TC, EGR
BDZXL03.6097	C3UI59S	TD2011L04i	79.5@2600	62	62	35.2	35.2	240@1600	64	22.8	DDI, TC, EGR
BDZXL03.6097	C3UI59T	TD2011L04i	79.5@2600	62	62	35.2	35.2	240@1600	64	22.8	DDI, TC, EGR
BDZXL03.6097	C3UI59U	TD2011L04i	79.5@2600	62	62	35.2	35.2	240@1600	64	22.8	DDI, TC, EGR
BDZXL03.6097	C3UI59Q	TD2011L04i	79.5@2600	62	62	35.2	35.2	240@1600	64	22.8	DDI, TC, EGR
BDZXL03.6097	C3UI57A	TD2011L04i	77.2@2666	60	60	34.7	34.7	240@1600	64	22.8	DDI, TC, EGR
BDZXL03.6097	C3UI52	TD2011L04	69.7@2400	59	59	30.9	30.9	250@1600	65	23.1	DDI, TC, EGR