

 CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY AIR RESOURCES BOARD	DEUTZ AG	EXECUTIVE ORDER U-R-013-0378 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	BDZXL03.6086	3.619	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Mechanical Direct Injection, Turbocharger, Charge Air Cooler, 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):

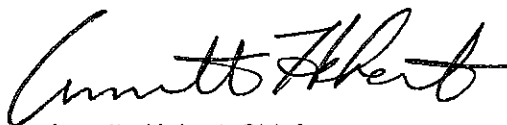
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NO _x	NMHC+NO _x	CO	PM	ACCEL	LUG	PEAK
56 ≤ kW < 75	Tier 3	STD	N/A	N/A	4.7	5.0	0.40	20	15	50
		CERT	--	--	4.5	0.8	0.20	2	2	3

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

Nonroad CI

Engine Model Summary Template

Attachment

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4/13/2011

Engine Family	1.Engine Code	2.Engine Model	4.Fuel Rate: mm/stroke @ peak HP		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
			3.BHP@RPM (SAE Gross)	(for diesel only)	(for diesels only)	(lb-ft)	(lb-ft)	(lb-ft)	(lb-ft)				
BDZXL03.6086	C3UI74.9	TCD2011L04w	100.4@2600	69	39.8	350@1600	350@1600	79	28.1	DDI, TC, CAC, EGR			
BDZXL03.6086	C3UI74A	TCD2011L04w	100.4@2500	71	39.4	350@1600	350@1600	79	28.1	DDI, TC, CAC, EGR			
BDZXL03.6086	C3UI74B	TCD2011L04w	100.4@2400	73	38.9	350@1600	350@1600	79	28.1	DDI, TC, CAC, EGR			
BDZXL03.6086	C3UI74C	TCD2011L04w	100.4@2300	78	39.3	350@1600	350@1600	79	28.1	DDI, TC, CAC, EGR			
BDZXL03.6086	C3UI72	TCD2011L04w	96.6@2200	75	36.6	350@1600	350@1600	79	28.1	DDI, TC, CAC, EGR			
BDZXL03.6086	C3UI71.2	TCD2011L04w	95.5@2600	66	38.1	333@1600	333@1600	75	26.7	DDI, TC, CAC, EGR			
BDZXL03.6086	C3UI71A	TCD2011L04w	95.5@2500	67	37.2	333@1600	333@1600	75	26.7	DDI, TC, CAC, EGR			
BDZXL03.6086	C3UI71B	TCD2011L04w	95.5@2400	70	37.3	333@1600	333@1600	75	26.7	DDI, TC, CAC, EGR			
BDZXL03.6086	C3UI71C	TCD2011L04w	95.5@2300	72	36.7	333@1600	333@1600	75	26.7	DDI, TC, CAC, EGR			
BDZXL03.6086	C3UI68.3	TCD2011L04w	91.6@2200	71	34.7	333@1600	333@1600	75	26.7	DDI, TC, CAC, EGR			
BDZXL03.6086	C3UI58	TCD2011L04w	77.8@2300	58	29.6	270@1600	270@1600	59	21	DDI, TC, CAC, EGR			
BDZXL03.6086	C3UI62	TCD2011L04w	84.5@2300	62	31.7	285@1600	285@1600	63	22.4	DDI, TC, CAC, EGR			
BDZXL03.6086	C3UI65	TCD2011L04w	87.2@2300	65	33.2	300@1600	300@1600	68	24.2	DDI, TC, CAC, EGR,			