

	DEUTZ AG	EXECUTIVE ORDER U-R-013-0310 New Off-Road Compression-Ignition Engines

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)
2009	9DZXL03.6097	3.619	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel 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 (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
37 ≤ kW < 75	Tier 4 Interim	OPTIONAL STD	N/A	N/A	4.7	5.0	0.30	20	15	50
		CERT	--	--	4.6	1.4	0.17	3	2	5

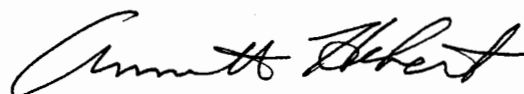
**BE IT FURTHER RESOLVED:** That for the listed engine models, the manufacturer has complied with the more stringent set of standards from the various power categories in conformance with Section 1039.230 (e) of the "California Exhaust Emission Standards and Test Procedures for 2008 and Later Tier 4 Off-Road Compression-Ignition Engines, Part I-C" adopted October 20, 2005.

**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 27 day of February 2009.



Annette Hebert, Chief  
Mobile Source Operations Division

# Engine Model Summary Template

Deutz AG  
Newrad CI

Attachment P 1 of 2

U-R-013-0310

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm <sup>3</sup> /stroke @ peak HP (for diesel only)	5.Fuel Rate: mm <sup>3</sup> /stroke @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm <sup>3</sup> /stroke@pea k torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
9DZXL03.6097	C3U156	TD2011L04	75.1	58	33.5	250@1600	65	23.1	DDI, TC, EGR
9DZXL03.6097	C3U157.6	TD2011L04i	77.2	60	34.7	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3U156.5	TD2011L04i	75.8	60	33.9	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3U159.3	TD2011L04i	79.5	62	35.2	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3U159A	D3.6DCDE3	79.5	62	35.2	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3U152	TD2011L04	69.7	59	30.9	250@1600	65	23.1	DDI, TC, EGR
9DZXL03.6097	C3U159V	D3.6DCDE3	79.5	62	35.2	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3U157H	TD2011L04i	77.2	60	34.7	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3U157J	TD2011L04i	77.2	60	34.7	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3U157L	TD2011L04i	77.2	60	34.7	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3U157N	TD2011L04i	77.2	60	34.7	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3U157P	TD2011L04i	77.2	60	34.7	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3U157R	TD2011L04i	77.2	60	34.7	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3U157S	TD2011L04i	77.2	60	34.7	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3U157T	TD2011L04i	77.2	60	34.7	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3U157U	TD2011L04i	77.2	60	34.7	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3U157Q	TD2011L04i	77.2	60	34.7	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3U156H	TD2011L04i	75.8	60	33.9	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3U156J	TD2011L04i	75.8	60	33.9	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3U156L	TD2011L04i	75.8	60	33.9	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3U156N	TD2011L04i	75.8	60	33.9	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3U156P	TD2011L04i	75.8	60	33.9	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3U156R	TD2011L04i	75.8	60	33.9	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3U156S	TD2011L04i	75.8	60	33.9	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3U156T	TD2011L04i	75.8	60	33.9	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3U156U	TD2011L04i	75.8	60	33.9	240@1600	64	22.8	DDI, TC, EGR

5 > kw  
59.3 kw

Deutz AG  
Nonroad CI

Engine Model Summary Template

Attachment P. 2 of 2

U-R-013-0310

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: @ peak HP (lbs/hr) (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@pea k torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
9DZXL03.6097	C3UI56Q	TD2011L04i	75.8	60	33.9	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3UI59H	TD2011L04i	79.5	62	35.2	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3UI59J	TD2011L04i	79.5	62	35.2	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3UI59L	TD2011L04i	79.5	62	35.2	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3UI59N	TD2011L04i	79.5	62	35.2	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3UI59P	TD2011L04i	79.5	62	35.2	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3UI59R	TD2011L04i	79.5	62	35.2	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3UI59S	TD2011L04i	79.5	62	35.2	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3UI59T	TD2011L04i	79.5	62	35.2	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3UI59U	TD2011L04i	79.5	62	35.2	240@1600	64	22.8	DDI, TC, EGR
9DZXL03.6097	C3UI59Q	TD2011L04i	79.5	62	35.2	240@1600	64	22.8	DDI, TC, EGR