

 AIR RESOURCES BOARD	DEUTZ AG	EXECUTIVE ORDER U-R-013-0309 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	9DZXL03.6086	3.619	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel 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):

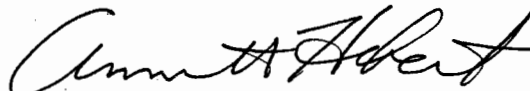
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NO _x	NMHC+NO _x	CO	PM	ACCEL	LUG	PEAK
56 ≤ kW < 75	Tier 3	STD	N/A	N/A	4.7	5.0	0.40	20	15	50
		CERT	--	--	4.5	0.8	0.20	2	2	3

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 27 day of February 2009.



Annette Hebert, Chief
 Mobile Source Operations Division

Engine Model Summary Template

Deutz AG
Nonroad CI

Attachment P. 1 of 1

U-R-013-0309

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate:		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
				mm/stroke @ peak HP (for diesel only)	mm/stroke @ peak HP (for diesels only)				
9DZXL03.6086	C3UI74.9	TCD2011L04w	100.4	69	39.8	350@1600	79	28.1	DDI, TC, CAC, EGR
9DZXL03.6086	C3UI74A	TCD2011L04w	100.4	71	39.4	350@1600	79	28.1	DDI, TC, CAC, EGR
9DZXL03.6086	C3UI74B	TCD2011L04w	100.4	73	38.9	350@1600	79	28.1	DDI, TC, CAC, EGR
9DZXL03.6086	C3UI74C	TCD2011L04w	100.4	78	39.3	350@1600	79	28.1	DDI, TC, CAC, EGR
9DZXL03.6086	C3UI72	TCD2011L04w	96.6	75	36.6	350@1600	79	28.1	DDI, TC, CAC, EGR
9DZXL03.6086	C3UI71.2	TCD2011L04w	95.5	66	38.1	333@1600	75	26.7	DDI, TC, CAC, EGR
9DZXL03.6086	C3UI71A	TCD2011L04w	95.5	67	37.2	333@1600	75	26.7	DDI, TC, CAC, EGR
9DZXL03.6086	C3UI71B	TCD2011L04w	95.5	70	37.3	333@1600	75	26.7	DDI, TC, CAC, EGR
9DZXL03.6086	C3UI71C	TCD2011L04w	95.5	72	36.7	333@1600	75	26.7	DDI, TC, CAC, EGR
9DZXL03.6086	C3UI68.3	TCD2011L04w	91.6	71	34.7	333@1600	75	26.7	DDI, TC, CAC, EGR
9DZXL03.6086	C3UI58	TCD2011L04w	77.8	58	29.6	270@1600	59	21	DDI, TC, CAC, EGR
9DZXL03.6086	C3UI62	TCD2011L04w	84.5	62	31.7	285@1600	63	22.4	DDI, TC, CAC, EGR
9DZXL03.6086	C3UI65	TCD2011L04w	87.2	65	33.2	300@1600	68	24.2	DDI, TC, CAC, EGR

77.9 kW

58.1 kW