California Environmental Protection Agency AIR RESOURCES BOARD	DEUTZ AG	EXECUTIVE ORDER U-R-013-0293 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	9DZXL06.5074	6.472	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Smoke Puff Limiter, Exhaust Gas Recirculation	Loaders, Tractor, Dozer, Pump, Compressor, 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
75 ≤ kW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
		CERT	--	--	4.0	1.8	0.25	20	6	28

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 2 day of January 2009.

Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Template

Deutz AG
Nonroad CI

Attachment P. 1 of 1 U-R-013-0293

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
9DZXL06.5074	C3CI129A	TCD914L06 130 KW	174.1@2300	91	69.7	460.9@1600	103	54.9	DDI, TC, CAC, EGR SPL
9DZXL06.5074	C3CI124A	TCD914L06	166.5@2150	89	63.7	460.9@1600	103	54.9	DDI, TC, CAC, EGR
9DZXL06.5074	C3CI119A	TCD914L06	159.5@2000	89	59.3	442.5@1600	94	50.1	DDI, TC, CAC, EGR
9DZXL06.5074	C3CI108A	TCD914L06	145.7@1800	89	53.3	442.5@1600	94	50.1	DDI, TC, CAC, EGR
9DZXL06.5074	C3CI125A	TCD914L06	168.4@2300	87	66.6	442.5@1600	94	50.1	DDI, TC, CAC, EGR
9DZXL06.5074	C3CI120A	TCD914L06	161.1@2150	85	60.9	442.5@1600	94	50.1	DDI, TC, CAC, EGR
9DZXL06.5074	C3CI113A	TCD914L06	151.5@2000	85	56.6	427.7@1600	90	47.9	DDI, TC, CAC, EGR
9DZXL06.5074	C3CI103A	TCD914L06 103.7 KW	139.0@1800	85	50.9	427.7@1600	90	47.9	DDI, TC, CAC, EGR