California Environmental Protection Agency		EXECUTIVE ORDER U-R-013-0450
OT Ala Deseurses Desaul	DEUTZ AG	New Off-Road
OB Air Resources Board		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)		
2013	DDZXL04.8024	4.764	Diesel	8000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Common Rail Direct Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Smoke Puff Limiter, Selective Catalytic Reduction-Urea			Loader, Dozer, and Other Industrial Equipment			

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), 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	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
POWER CLASS			NMHC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
75 <u><</u> kW < 130	Interim Tier 4/ ALT NO _x	STD	0.19	3.4	N/A	5.0	0.02	N/A	N/A	N/A
		CERT	0.05	3.4		0.1	0.02			

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

__ day of February 2013.

Annette Hebert, Chief Mobile Source Operations Division

h I I G		Eng	gine Model	Summa	ry Template	e		EO# U-R-013-045	 .
Deutz AG			Attachmer	rt I	age 1 c	A I			0
Nonroad CI				5.Fuel Rate:	8			Date: 1/18/2013	
			4.Fuel Rate: mm/stroke @ peak	(lbs/hr) @ peal HP		7.Fuel Rate:	8.Fuel Rate:		
Engine Family 1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	HP (for diesel only)	(for diesels only)	6.Torque @ RPM (SEA Gross)	mm/stroke@pe ak torque	(lbs/hr)@peal torque	k 9.Emission Control Device Per SAE J1930	
DDZXL04.8024 C4SI129	TAD560VE	172,9@2300	128	98.1	501.5@1450	141	68.1	DDI, TC, CAC, ECM, SPL, SCR	

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