 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	9DZXLO6.5074	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 (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):

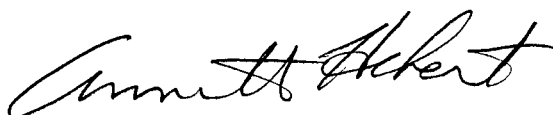
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NO _x	NMHC+NO _x	CO	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
		CERT	--	--	4.0	1.8	0.25	20	6	28

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

Detz 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: mm/stroke @ peak HP (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
3DZXL06.5074	C3C1129A	TCD914L06 ¹³⁰ _{174.1} @2300	91	69.7	460.9@1600	103	54.9	DDI, TC, CAC, EGR SPL	
3DZXL06.5074	C3C1124A	TCD914L06	89	63.7	460.9@1600	103	54.9	DDI, TC, CAC, EGR	
3DZXL06.5074	C3C1119A	TCD914L06	89	59.3	442.5@1600	94	50.1	DDI, TC, CAC, EGR	
3DZXL06.5074	C3C1108A	TCD914L06	89	53.3	442.5@1600	94	50.1	DDI, TC, CAC, EGR	
3DZXL06.5074	C3C1125A	TCD914L06	87	66.6	442.5@1600	94	50.1	DDI, TC, CAC, EGR	
3DZXL06.5074	C3C1120A	TCD914L06	85	60.9	442.5@1600	94	50.1	DDI, TC, CAC, EGR	
3DZXL06.5074	C3C1113A	TCD914L06	85	56.6	427.7@1600	90	47.9	DDI, TC, CAC, EGR	
3DZXL06.5074	C3C1103A	TCD914L06 ^{103.7} _{139.0} @1800	85	50.9	427.7@1600	90	47.9	DDI, TC, CAC, EGR	