California Environmental Protection Agency AIR RESOURCES BOARD	DEUTZ AG	EXECUTIVE ORDER U-R-013-0115 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 system 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)
2004	4DZXL06.5036	6.472	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Direct Diesel Injection, Smoke Puff Limiter, Turbocharger, Charge Air Cooler	Pump

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 2	STD	N/A	N/A	6.6	5.0	0.30	20	15	50
130 ≤ kW < 225	Tier 2	STD	N/A	N/A	6.6	3.5	0.20	20	15	50
		CERT	-	-	6.1	1.1	0.19	7	4	12

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 6TH day of August 2003.

Raphael Susnowitz

for: Allen Lyons, Chief
Mobile Source Operations Division

Attachment pg. 1 of 1

Manufacturer: DEUTZ AG
Engine Category: Nonroad CI
EPA Family Name: 4DZXL06.5036
Mfr. Family Name: BF6L914C
Process Code: New Submission

ENGINE MODEL SUMMARY FORM

U-R-013-0115

1. Engine code	2. Engine Model	3. BHP@	RPM	4. Fuel Rate @ Rated Power (mm3/stroke)	5. Fuel Rate (lbs./hr) Rated Power	6. Peak Torque (Nm) @ RPM		7. Peak Torque (mm³/stroke)	8. Fuel Rate (lbs./hr) @ Peak Torque	9. Emission Control Device (SAE J1930)
✕CE141/2	BF6L914C	189	2500	90.0	66.2	715	1600	106.0	56.2	EM, SPL, DOI, TC, CAC
CE141/3	BF6L914C	189	2500	89.0	66.2	713	1500	106.0	52.6	EM, SPL
CE131/2	BF6L914C	176	2500	85.0	61.5	675	1500	101.0	49.8	EM, SPL
CE131/3	BF6L914C	176	2500	84.0	61.5	673	1500	101.0	49.6	EM, SPL
CE132/2	BF6L914C	177	2300	89.0	62.0	715	1500	106.0	52.7	EM, SPL
CE132/3	BF6L914C	177	2300	88.0	62.0	713	1500	106.0	52.6	EM, SPL
CE125/4	BF6L914C	168	2300	86.0	58.7	675	1500	101.0	49.8	EM, SPL
CE125/5	BF6L914C	168	2300	85.0	58.7	673	1500	101.0	49.6	EM, SPL
CE126/2	BF6L914C	169	2150	88.0	59.1	662	1500	98.0	48.8	EM, SPL
CE126/3	BF6L914C	169	2150	87.0	59.1	661	1500	98.0	48.7	EM, SPL