

 AIR RESOURCES BOARD	DEUTZ AG	EXECUTIVE ORDER U-R-013-0116
		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	4DZXL06.5037	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
		CERT	-	-	6.2	1.2	0.21	3	4	7

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 30TH day of July 2003.


 Allen Lyons, Chief
 Mobile Source Operations Division

Attachment 18.1081

Manufacturer: DEUTZ AG
Engine Category: Nonroad CI
EPA Family Name: 4DZXL06.5037
Mfr. Family Name: BF6L914C
Process Code: New Submission

ENGINE MODEL SUMMARY FORM

U-R-013-0116

1. Engine code	2. Engine Model	3. BHP@ RPM	4. Fuel Rate @ Rated Power (mm ³ /stroke)	5. Fuel Rate (lbs./hr) Rated Power	6. Peak Torque (Nm) @ RPM	7. Peak Torque (mm ² /stroke)	8. Fuel Rate (lbs./hr) @ Peak Torque	9. Emission Control Device (SAE J1930)
CE118/5	BF6L914C	158	80.0	55.4	615	1500	89.0	EM, SPL, TC, CA, ^{DOZ}
CE118/6	BF6L914C	158	79.0	55.4	613	1500	89.0	EM, SPL
CE118/7	BF6L914C	158	83.0	55.4	675 ^{41%}	100.0	53.1	EM, SPL
CE118/8	BF6L914C	158	82.0	55.4	673	1500	49.6	EM, SPL
CE112/2	BF6L914C	150	79.0	52.6	615	1500	89.0	EM, SPL
CE112/3	BF6L914C	150	78.0	52.6	613	1500	89.0	EM, SPL
CE121/2	BF6L914C	120.162	89.0	56.8	675	1500	99.0	EM, SPL
CE121/3	BF6L914C	162	88.0	56.8	673	1500	99.0	EM, SPL
CE114/2	BF6L914C	153	85.0	53.5	615	1500	89.0	EM, SPL
CE114/3	BF6L914C	153	84.0	53.5	613	1500	89.0	EM, SPL
CE108/2	BF6L914C	145	80.0	50.7	615	1500	89.0	EM, SPL
CE108/3	BF6L914C	145	79.0	50.7	613	1500	89.0	EM, SPL
CE111/2	BF6L914C	149	89.0	52.1	645	1500	95.0	EM, SPL
CE111/3	BF6L914C	149	88.0	52.1	643	1500	95.0	EM, SPL
CE105/2	BF6L914C	141	86.0	49.3	615	1500	89.0	EM, SPL
CE105/3	BF6L914C	141	85.0	49.3	613	1500	89.0	EM, SPL
CE99/2	BF6L914C	133	82.0	46.5	615	1500	89.0	EM, SPL
CE99/3	BF6L914C	99.3	81.0	46.5	613	1500	89.0	EM, SPL