

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)
2003	3DZXLO6.1009	4.1, 6.1	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Smoke Puff Limiter, Turbocharger			Pump, Generator Set, 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):

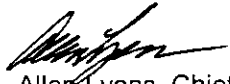
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
37 ≤ kW < 75	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50
		CERT	-	9.0	-	-	-	12	8	22

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 9TH day of December 2002.


 Allen Lyons, Chief
 Mobile Source Operations Division

Attachment 1 of 1

Manufacturer: DEUTZ AG
 Engine Category: Nonroad CI
 EPA Family Name: 3DZXL06.1009
 Mfr. Family Name: BF6L913
 Process Code: New Submission

ENGINE MODEL SUMMARY FORM

U-R-013-0096

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 @ RPM(NM)	7. Peak Torque (mm ³ /stroke)	8. Fuel Rate (lbs./hr) @ Peak Torque	9. Emission Control Device (SAE J1930)
C60	BF4L913	80 2000	69.0	28.1	300 1625	70.0	24.0	EM P07, SPL, TC
C61	BF4L913	82 1800	78.0	28.6	330 1625	78.0	26.4	EM
C61/1	BF4L913	82 1800	78.0	28.6	330 1625	78.0	26.4	EM
C64	BF4L913	86 2150	70.0	30.0	300 1625	70.0	24.0	EM
C64/1	BF4L913	86 2000	73.0	30.0	320 1625	76.0	25.6	EM
C66	BF4L913	88 2300	69.0	31.0	300 1625	70.0	24.0	EM
C66/1	BF4L913	88 2300	69.0	31.0	300 1625	70.0	24.0	EM
C67	BF4L913	90 2150	73.0	31.4	320 1625	76.0	25.6	EM
C67/1	BF4L913	90 2000	77.0	31.4	340 1625	79.0	27.2	EM
C68	BF4L913	91 2200	72.0	31.9	320 1625	76.0	25.6	EM
C69	BF4L913	92 2300	72.0	32.4	320 1625	76.0	25.6	EM
C69/1	BF4L913	92 2300	72.0	32.4	320 1625	76.0	25.6	EM
C70	BF4L913	94 2150	76.0	32.8	340 1625	79.0	27.2	EM
C70/1	BF4L913	94 2300	75.0	32.8	357 1700	80.0	29.8	EM
C72	BF4L913	96 2500	70.0	33.8	320 1625	76.0	25.6	EM
C72/1	BF4L913	96 2500	70.0	33.8	320 1625	76.0	25.6	EM
C72/2	BF4L913	96 2600	70.0	33.8	320 1625	76	25.6	EM
D58	BF4L913	1800	70.0	27.2	N/A	N/A	N/A	EM
D63	BF4L913	1800	77.0	29.5	N/A	N/A	N/A	EM
D63/1	BF4L913	1800	77.0	29.5	N/A	N/A	N/A	EM
D66.5	BF4L913	2000	72.0	29.5	N/A	N/A	N/A	EM
D70	BF4L913	1800	84.0	31.2	N/A	N/A	N/A	EM
D70/1	BF4L913	1800	94.0	32.8	N/A	N/A	N/A	EM
D70/1	BF4L913	2150	76.0	32.8	N/A	N/A	N/A	EM