

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	3DZXL07.1005	7.2, 4.8	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Smoke Puff Limiter, Turbocharger			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	-	8.4	-	-	-	6	4	10

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

ENGINE MODEL SUMMARY FORM

U-R-013-0057

Manufacturer: DEUTZ AG
 Engine Category: Nonroad CI
 EPA Family Name: 3DZXLO7.1005
 Mfr. Family Name: BF6M1013E
 Process Code: New Submission

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)
C145	BF6M1013E	194 ¹⁴⁵ 2300	94	67.9	701 1400	104	48.2	EM DOE , SPL, TC
C69	BF4M1013	92 617 2100	76	32.2	370 1400	86	25.5	EM
C72	BF4M1013	96 2000	82	33.6	394 1400	91	27.1	EM
C73	BF4M1013	98 1800	82	34.3	418 1400	97	28.8	EM
D71	BF4M1013	95 1800	94	33.3	N/A	N/A	N/A	EM
C70	BF4M1013E	94 1800	84	32.9	398 1400	91	27.4	EM
C71	BF4M1013E	95 2100	76	33.3	370 1400	86	25.5	EM
C74	BF4M1013E	99 2000	82	34.7	398 1400	91	27.4	EM
C74/2	BF4M1013E	99 1800	88	34.7	422 1400	97	29.0	EM
D72	BF4M1013E	96 1800	86	33.6	N/A	N/A	N/A	EM
C74.9	BF4M1013E	100 2100	81	35.0	422 1400	97	29.0	EM

TEST ENGINE ONLY. NOT BEING CERTIFIED.