DEUTZ AG

EXECUTIVE ORDER U-R-013-0087 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)
2003	3DZXL07.1005	7.2, 4.8	Diesel	8000
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT	APPLICATION
Direct Dies	el Injection, Smoke Puff	Limiter, Turbocharger	Generator Set, Industr	ial 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	EMISSION			E	XHAUST (g/kw-l	nr)		OF	ACITY (%	5)
POWER CLASS	STANDARD CATEGORY		нс	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 _______ day of December 2002.

Allen Wons, Chief

Mobile Source Operations Division

Attachment 1 of

ENGINE MODEL SUMMARY FORM

4-2-013-0087

Manufacturer: DEUTZ AG
Engine Category: Nonroad Cl
EPA Family Name: 3DZXL07.1005
Mfr. Family Name: BF6M1013E
Process Code: New Submission

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 Tord RPM(NA	orque @ NM)	7. Peak Torque (mm³/stroke)	8. Fuel Rate (lbs./hr) @ Peak Torque	9. Emission Control Device (SAE J1930)
₹ C145	BF6M1013E	194 145		94	67.9	701	1400	104	48.2	EM DOD, SPL, TC
, C69	BF4M1013	92 CL.I	2100	76	32.2	370	1400	86 6	25.5	EM
C72	BF4M1013	96		82	33.6	394	1400	91	27.1	EM
C73	BF4M1013	98	1800	82	34.3	418	1400	97	28.8	m !
D71	BF4M1013	95	1800	94	33.3	N/A	N/A	N/A	N/A	m ·
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	E A
C74/2	BF4M1013E	99	1800	88	34.7	422	1400	97	29.0	m M
D72	BF4M1013E	96	1800	86	33.6	N/A	N/A	N/A	N/A	
C74,9	BF4M1013E	100	2100	81	35.0	422	1400	97	29.0	EM
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TEST ENGINE ONLY. NOT BEING CERTIFIED.

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