

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)
2005	5DZXL07.1005	4.76	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 2	STD	N/A	N/A	7.5	5.0	.40	20	15	50
		CERT	-	-	7.1	3.1	.30	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 20TH day of September 2004.


 Allen Lyons, Chief
 Mobile Source Operations Division

Engine Model Summary Form

Attachment 1 of 1
U-R-013-0148

Manufacturer: DEUTZ AG
 Engine category: Nonroad CI
 EPA Engine Family: 5DZXL07.1005
 Mfr Family Name: BF4M 1013E, D5D
 Process Code: New Submission

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8 Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
CE74,9	D5DCBE2	100,4@2100	88	41	331,9@1400	108	33,5	SPL DDI, 12
CE71	D5DCAE2	95,2@2100	84	39,1	276,5@1400	90	27,9	SPL
✓ CE74,9/2	BF4M1013E	100,4@1800	97	38,7	331,9@1400	108	33,5	EM SPL DDI, 7C
CE74,9/1	BF4M1013E	100,4@2000	90	39,9	331,9@1400	108	33,5	EM
CE74,9/3	BF4M1013E	100,4@1900	93	39,2	331,9@1400	108	33,5	EM
CE74,9/4	BF4M1013E	100,4@2100	88	41	331,9@1400	108	33,5	EM
CE74,9/5	BF4M1013E	100,4@2200	85	41,5	331,9@1400	108	33,5	EM
CE74,9/6	BF4M1013E	100,4@2300	83	42,4	331,9@1400	108	33,5	EM
CE70	BF4M1013E	93,8@1800	91	36,3	276,5@1400	90	27,9	EM
CE70/1	BF4M1013E	93,8@1900	88	37,1	276,5@1400	90	27,9	EM
CE70/2	BF4M1013E	93,8@2000	85	37,7	276,5@1400	90	27,9	EM
CE70/3	BF4M1013E	93,8@2100	83	38,7	276,5@1400	90	27,9	EM
CE70/4	BF4M1013E	93,8@2200	81	39,5	276,5@1400	90	27,9	EM
CE70/5	BF4M1013E	93,8@2300	78	39,8	276,5@1400	90	27,9	EM