

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	4DZXL06.1038	6.057, 4.038	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Smoke Puff Limiter			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):

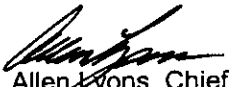
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
37 ≤ kW < 75	Tier 2	STD	N/A	N/A	7.5	5.0	0.40	20	15	50
		CERT	-	-	6.6	0.7	0.10	2	1	3

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

U-K-013-0118

Attachment pg 1 of 2

ENGINE MODEL SUMMARY FORM

Manufacturer: DEUTZ AG
 Engine Category: Nonroad CI
 EPA Family Name: 3DZXL06.1038
 Mfr. Family Name: BF4M1012
 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 (Nm) @ RPM	7. Peak Torque (mm ² /stroke)	8. Fuel Rate (lbs./hr) @ Peak Torque	9. Emission Control Device (SAE J1930)
CE60	BF4M2012	80 2000	68.0	28	333 1450	76.0	24	EM, SPL DPT, TC
CE62	BF4M2012	83 2100	68.0	29	333 1450	76.0	24	EM, SPL
CE63	BF4M2012	84 2000	71.5	30	352 1450	80.0	25	EM, SPL
CE64	BF4M2012	86 2200	68.0	30	333 1450	76.0	24	EM, SPL
CE66	BF4M2012	88 2300	68.0	31	333 1450	76.0	24	EM, SPL
CE66/1	BF4M2012	88 2100	72.0	31	352 1450	80.0	25	EM, SPL
CE67	BF4M2012	90 2000	76.0	31	371 1450	85.0	26	EM, SPL
CE68	BF4M2012	91 2400	69.0	32	333 1450	76.0	24	EM, SPL
CE68/1	BF4M2012	91 2200	72.5	32	352 1450	80.0	25	EM, SPL
CE68	BF4M2012	92 2100	75.5	32	371 1450	85.0	26	EM, SPL
CE70	BF4M2012	94 2500	69.5	33	333 1450	76.0	24	EM, SPL
CE70/1	BF4M2012	94 2300	72.5	33	352 1450	80.0	25	EM, SPL
CE70/2	BF4M2012	94 2000	79.8	33	390 1450	90.0	28	EM, SPL
CE72	BF4M2012	96 2400	73.0	34	352 1450	80.0	25	EM, SPL
CE72/1	BF4M2012	96 2200	76.5	34	371 1450	85.0	26	EM, SPL
CE73	BF4M2012	98 2100	79.8	34	390 1450	90.0	28	EM, SPL
CE74	BF4M2012	99 2500	73.5	35	352 1450	80.0	25	EM, SPL
CE74.9	BF4M2012	100 2500	74.5	35	390 1450	90.0	28	EM, SPL
CE74.9/1	BF4M2012	100 2500	74.5	35	371 1450	85.0	26	EM, SPL
CE74.9/2	BF4M2012	100 2400	76.0	35	390 1450	90.0	28	EM, SPL
CE74.9/3	BF4M2012	100 2400	76.0	35	371 1450	85.0	26	EM, SPL
CE74.9/4	BF4M2012	100 2300	78.0	35	390 1450	90.0	28	EM, SPL
CE74.9/5	BF4M2012	100 2200	80.0	35	390 1450	90.0	28	EM, SPL
CE74/1	BF4M2012	99 2300	77.0	35	371 1450	85.0	26	EM, SPL
CE65	BF4M2012	87 2500	64.5	30	333 1450	76.0	24	EM, SPL
CE66	BF4M2012	88 1800	79.5	31	390 1450	90.0	28	EM, SPL
CE64	BF4M2012	86 1800	77.0	30	371 1450	85.0	26	EM, SPL
CE62	BF4M2012	83 1800	75.0	29	352 1450	80.0	25	EM, SPL
CE60/1	BF4M2012	80 1800	72.5	28	333 1450	76.0	24	EM, SPL
CE68	BF4M2012	91 1900	79.5	32	390 1450	90.0	28	EM, SPL
CE66	BF4M2012	88 1900	77.0	31	371 1450	85.0	26	EM, SPL
CE63	BF4M2012	84 1900	73.5	30	352 1450	80.0	25	EM, SPL
CE60/2	BF4M2012	80 1900	70.0	28	333 1450	76.0	24	EM, SPL
CE60/3	BF4M2012	80 2100	66.5	28	300 1450	69.0	21	EM, SPL

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Manufacturer: DEUTZ AG
Engine Category: Nonroad CI
EPA Family Name: 3DZXLO6.1038
Mfr. Family Name: BF4M1012
Process Code: New Submission

Table with 9 columns: 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 Torque (Nm) @ RPM, 7. Peak Torque (mm2/stroke), 8. Fuel Rate (lbs./hr) @ Peak Torque, 9. Emission Control Device (SAE J1930). Rows include models like BF4M2012, BF6M2012, CE74,9/1, etc.