



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	4DZXL06.5043	6.5, 5.4, 4.3, 3.2	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Smoke Puff Limiter, Turbocharger			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 (NO_x), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NO_x), 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	NO _x	NMHC+NO _x	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	-	-	6.7	2.4	0.30	2	2	2

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 March 2004.

Allen Lyons, Chief
Mobile Source Operations Division

Engine Model Summary Form

U-R-013-0131

Attachment 1 of 1

Manufacturer: **Deutz AG**
 Engine category: **Nonroad CI**
 EPA Engine Family: **4DZXL06.5043**
 Mfr Family Name: **BFL914**
 Process Code: **Running-Change NEW**

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
CE 44	BF3L914	44 58.96	65	20.636	179.82 @ 1600	1700	20.3045852968	SPL DEF TC
CE 51	BF3L914	68.34	75	23.919	198.32 @ 1600	1700	22.3935344015	SPL
CE 59	BF4L914	79.06	65	27.671	238.28 @ 1600	1700	26.9056644674	SPL
CE 66	BF4L914	88.44	71	30.954	253.82 @ 1600	1700	28.6603817153	SPL
CE71,7	BF4L914	96.078	75	33.6273	262.7 @ 1600	1700	29.6630772855	SPL
CE71,7/1	BF4L914	96.078	75	33.6273	262.7 @ 1600	1700	29.6630772855	SPL
* CE72,4	BF4L914	72.4 97.016	82	33.9556	262.7 @ 1600	1700	29.6630772855	SPL
CE69	BF4L914	92.46	77	32.361	251.6 @ 1600	1700	28.4097078228	SPL
CE66/1	BF4L914	88.44	73	30.954	240.5 @ 1600	1700	27.1563383600	SPL
CE70	BF4L914	93.8	81	32.83	262.7 @ 1600	1700	29.6630772855	SPL
CE67	BF4L914	89.78	77	31.423	251.6 @ 1600	1700	28.4097078228	SPL
CE64	BF4L914	85.76	75	30.016	240.5 @ 1600	1700	27.1563383600	SPL
CE67/1	BF4L914	89.78	80	31.423	262.7 @ 1600	1700	29.6630772855	SPL
CE64/1	BF4L914	85.76	77	30.016	251.6 @ 1600	1700	28.4097078228	SPL
CE60	BF4L914	80.4	73	28.14	240.5 @ 1600	1700	27.1563383600	SPL
DE67	BF4L914	89.78	87	31.423	n.a.	n.a.	n.a.	SPL
DE67/1	BF4L914	89.78	85	31.423	n.a.	n.a.	n.a.	SPL
DE67/2	BF4L914	89.78	79	31.423	n.a.	n.a.	n.a.	SPL
DE70	BF4L914	93.8	78	32.83	n.a.	n.a.	n.a.	SPL
DE70/1	BF4L914	93.8	75	32.83	n.a.	n.a.	n.a.	SPL