

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	4DZXL03.1039	3.109	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection			Loader, 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):

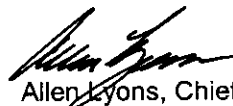
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
37 ≤ kW < 75	Tier 2	STD	N/A	N/A	7.5	5.0	.40	20	15	50
		CERT	-	-	7.0	1.2	.14	2	2	3

**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 8<sup>TH</sup> day of October 2003.



Allen Lyons, Chief  
 Mobile Source Operations Division

Attachment 1 of 2

U-12-013-0170

# ENGINE MODEL SUMMARY FORM

Manufacturer: DEUTZ AG  
 Engine Category: Nonroad CI  
 EPA Family Name: QDZXL03.1039  
 Mfr. Family Name: BF3/4L/M2011, D3D  
 Process Code: New Submission

1. Engine code	2. Engine Model	3. BHP@ RPM	4. Fuel Rate @ Rated Power (mm <sup>3</sup> /stroke)	5. Fuel Rate (lbs./hr) Rated Power	6. Peak Torque (Nm) @ RPM	7. Peak Torque (mm <sup>3</sup> /stroke)	8. Fuel Rate (lbs./hr) @ Peak Torque	9. Emission Control Device (SAE J1930)
CE54,9/1	D3DCEE2	74 2600	54.0	26	241 1600	60.0	19	EM DDI
CE50/1	D3DCDE2	67 2300	53.0	23	241 1600	60.0	19	EM
CE62	BF4M2011	83 2800	59.0	29	256 1600	64.0	20	EM
XCE65	BF4M2011	87 2800	61.0	30	270 1600	69.0	21	EM
CE63	BF4M2011	84 2700	60.0	30	270 1600	69.0	21	EM
CE58,5	BF4M2011	78 2600	56.0	27	256 1600	64.0	20	EM
CE61	BF4M2011	82 2600	59.0	29	270 1600	69.0	21	EM
CE57	BF4M2011	76 2500	57.0	27	256 1600	64.0	20	EM
CE60	BF4M2011	80 2500	59.0	28	270 1600	69.0	21	EM
CE61/1	BF4M2011	82 2500	60.0	29	270 1600	69.0	21	EM
CE57/1	BF4M2011	76 2350	58.0	27	270 1600	69.0	21	EM
CE53,6	BF4M2011	72 2350	55.0	25	n.a.	n.a.	n.a.	EM
CE46/2	BF4M2011	62 2300	48.0	22	256 1600	64.0	20	EM
CE53	BF4M2011	71 2300	55.0	25	256 1600	64.0	20	EM
CE56	BF4M2011	75 2300	58.0	26	270 1600	69.0	21	EM
CE49	BF4M2011	66 2300	51.5	23	256 1600	64.0	20	EM
CE54	BF4M2011	72 2200	57.5	25	270 1600	69.0	21	EM
DE47,3	BF4M2011	61 1800	61.0	21	n.a.	n.a.	n.a.	EM
CE55,1	BF4L2011	74 2800	54.0	26	229 1600	56.0	18	EM
CE58,1	BF4L2011	78 2800	56.5	27	241 1600	60.0	19	EM
CE56,5	BF4L2011	76 2700	55.0	26	256 1600	64.0	20	EM
CE55,7	BF4L2011	75 2650	56.0	26	241 1600	60.0	19	EM
CE52,1	BF4L2011	70 2600	52.0	24	229 1600	56.0	18	EM
CE54,9	BF4L2011	74 2600	54.0	26	241 1600	60.0	19	EM
CE50,8	BF4L2011	68 2500	51.5	24	229 1600	56.0	18	EM
CE53,5	BF4L2011	72 2500	54.0	25	241 1600	60.0	19	EM
CE47,5	BF4L2011	64 2300	50.5	22	229 1600	56.0	18	EM
CE50	BF4L2011	67 2300	53.0	23	241 1600	60.0	19	EM
DE45,5	BF4L2011	61 1800	60.0	21	n.a.	n.a.	n.a.	EM
CE46	BF3M2011	62 2800	54.0	22	180 1600	61.0	14	EM
CE48,5	BF3M2011	65 2800	58.0	23	190 1600	65.0	15	EM
CE44,1	BF3M2011	59 2600	55.0	21	180 1600	61.0	14	EM
CE46/1	BF3M2011	62 2600	57.0	22	190 1600	65.0	15	EM
CE42,8	BF3M2011	57 2500	56.0	20	180 1600	61.0	14	EM

Attachment 2 of 2

U-2-013-0120

# ENGINE MODEL SUMMARY FORM

Manufacturer: DEUTZ AG  
 Engine Category: Nonroad CI  
 EPA Family Name: 4DZXL03.1039  
 Mfr. Family Name: BF34L/M2011, D3D  
 Process Code: New Submission

1. Engine code	2. Engine Model	3. BHP@ RPM	4. Fuel Rate @ Rated Power (mm <sup>3</sup> /stroke)	5. Fuel Rate (lbs./hr) Rated Power	6. Peak Torque (Nm) @ RPM	7. Peak Torque (mm <sup>3</sup> /stroke)	8. Fuel Rate (lbs./hr) @ Peak Torque	9. Emission Control Device (SAE J1930)
CE45	BF3M2011	60 2500	57.0	21	190	1600	15	EM DDI
CE40	BF3M2011	54 2300	55.0	19	180	1600	14	EM
CE42	BF3M2011	56 2300	58.0	20	190	1600	15	EM
CE42,6	BF3L2011	57 2800	52.0	20	172	1600	14	EM
CE44,9	BF3L2011	60 2800	54.0	21	181	1600	14	EM
CE39,9	BF3L2011	53 2600	52.0	19	172	1600	14	EM
CE42/1	BF3L2011	56 2600	54.0	20	181	1600	14	EM
CE43	BF3L2011	58 2600	55.0	20	181	1600	14	EM
CE39,6	BF3L2011	53 2500	54.0	19	172	1600	14	EM
CE41,7	BF3L2011	56 2500	56.0	20	181	1600	14	EM
CE38,9	BF3L2011	52 2300	55.0	18	181	1600	14	EM