

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	3DZXL03.1031	3.1	Diesel	3000, 5000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Smoke Puff Limiter			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
8 ≤ kW < 19	Tier 1	STD	N/A	N/A	9.5	6.6	0.80	20	15	50
19 ≤ kW < 37	Tier 1	STD	N/A	N/A	9.5	5.5	0.80	20	15	50
		CERT	-	-	7.4	2.7	0.24	2	3	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 9th day of December 2002.



Allen Lyons, Chief  
 Mobile Source Operations Division

Attachment 1 of 3

Manufacturer: DEUTZ AG  
 Engine Category: Nonroad CI  
 EPA Family Name: 3DZXLO3.1031  
 Mfr. Family Name: F2L2011  
 Process Code: New Submission

ENGINE MODEL SUMMARY FORM

U-R-013-0108

1. Engine code	2. Engine Model	3. BHP@	4. Fuel Rate @ Rated Power (mm <sup>3</sup> /stroke)	5. Fuel Rate (lbs./hr) Rated Power	6. Peak Torque @ RPM(NM)	7. Peak Torque (mm <sup>3</sup> /stroke)	8. Fuel Rate (lbs./hr) @ Peak Torque	9. Emission Control Device (SAE J1930)
CE19,1	F2L2011	26	41.0	9.0	84	43.0	7.0	EM
CE20,1	F2L2011	27	43.0	9.4	89	45.0	7.4	EM
CE20,2	F2L2011	27	41.0	9.5	84	43.0	7.0	EM
CE20,9	F2L2011	28	41.0	9.8	84	43.0	7.0	EM
CE21,3	F2L2011	29	43.0	10.0	89	45.0	7.4	EM
CE21,8	F2L2011	29	41.0	10.2	84	43.0	7.0	EM
CE22,2/1	F2L2011	29	43.0	10.3	89	45.0	7.4	EM
CE23/2	F2L2011	31	43.0	10.8	89	45.0	7.4	EM
D13,6	F2L2011	18	34.3	6.4	N/A	N/A	N/A	EM
D14,3	F2L2011	19	36.1	6.7	N/A	N/A	N/A	EM
D15,1	F2L2011	20	43.0	7.1	N/A	N/A	N/A	EM
CE20	F2M2011	27	42.0	9.4	89	44.0	7.4	EM
CE21	F2M2011	28	42.0	9.8	89	44.0	7.4	EM
CE21,7	F2M2011	29	42.0	10.2	89	44.0	7.4	EM
CE21/1	F2M2011	28	44.0	9.8	93	46.0	7.8	EM
CE22,2	F2M2011	30	44.0	10.4	93	46.0	7.8	EM
CE23	F2M2011	31	42.0	10.8	89	44.0	7.4	EM
CE23/1	F2M2011	31	44.5	10.8	93	46.5	7.8	EM
CE24,2	F2M2011	32	44.0	11.3	93	46.0	7.8	EM
D14,3	F2M2011	19	36.1	6.7	N/A	N/A	N/A	EM
D15	F2M2011	20	37.8	7.0	N/A	N/A	N/A	EM
D15,8	F2M2011	21	39.8	7.4	N/A	N/A	N/A	EM
CE29,3	F3L2011	39	40.0	13.7	131	42.0	10.9	EM
CE30,9	F3L2011	41	42.0	14.5	138	44.0	11.5	EM
CE31,1	F3L2011	42	40.0	14.6	131	42.0	10.9	EM
CE32,2	F3L2011	43	40.0	15.1	131	42.0	10.9	EM
CE32,8/1	F3L2011	44	42.0	15.4	138	44.0	11.5	EM
CE33,9	F3L2011	45	42.0	15.9	138	44.0	11.5	EM
CE34	F3L2011	46	40.0	15.9	131	42.0	10.9	EM
CE35,8	F3L2011	48	42.0	16.8	138	44.0	11.5	EM
D18,8	F3L2011	25	31.6	8.8	N/A	N/A	N/A	EM
D19,9	F3L2011	27	33.5	9.3	N/A	N/A	N/A	EM

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Manufacturer: DEUTZ AG  
Engine Category: Nonroad CI  
EPA Family Name: 3DZXL03.1031  
Mfr. Family Name: F2L2011  
Process Code: New Submission

### ENGINE MODEL SUMMARY FORM

4-2-013-0108

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 @ RPM(NM)	7. Peak Torque (mm <sup>3</sup> /stroke)	8. Fuel Rate (lbs./hr) @ Peak Torque	9. Emission Control Device (SAE J1930)
D20,9	F3L2011	28	1800	35.1	9.8	N/A	N/A	N/A	EM
D21,4	F3L2011	29	1800	36.0	10.0	N/A	N/A	N/A	EM
D22,6	F3L2011	30	1800	38.0	10.6	N/A	N/A	N/A	EM
D23,8	F3L2011	32	1800	40.0	11.2	N/A	N/A	N/A	EM
D26,5/1	F3L2011	36	1800	46.0	12.4	N/A	N/A	N/A	EM
CE29,9	F3M2011	40	2300	40.0	14.0	134	1700	11.2	EM
CE31,5	F3M2011	42	2300	42.0	14.8	140	1700	11.7	EM
CE31,8	F3M2011	43	2500	40.0	14.9	134	1700	11.2	EM
CE32,5/1	F3M2011	44	2400	42.0	15.2	134	1700	11.2	EM
CE32,8	F3M2011	44	2600	40.0	15.4	134	1700	11.2	EM
CE33,5	F3M2011	45	2500	42.0	15.7	140	1700	11.7	EM
CE34,5	F3M2011	46	2600	42.0	16.2	140	1700	11.7	EM
CE34,7	F3M2011	46	2800	40.0	16.3	134	1700	11.2	EM
CE36,5	F3M2011	49	2800	42.0	17.1	140	1700	11.7	EM
D19,4	F3M2011	26	1800	32.6	9.1	N/A	N/A	N/A	EM
D20,5	F3M2011	27	1800	34.5	9.6	N/A	N/A	N/A	EM
D21,5	F3M2011	29	1800	36.2	10.1	N/A	N/A	N/A	EM
D22,1	F3M2011	30	1800	37.2	10.4	N/A	N/A	N/A	EM
D23,3	F3M2011	31	1800	39.2	10.9	N/A	N/A	N/A	EM
D24,5	F3M2011	33	1800	41.2	11.5	N/A	N/A	N/A	EM
D25,8	F4L2011	35	1800	32.5	12.1	N/A	N/A	N/A	EM
D27,3	F4L2011	37	1800	34.4	12.8	N/A	N/A	N/A	EM
D28,7	F4L2011	38	1800	36.2	13.5	N/A	N/A	N/A	EM
D31,1	F4L2011	42	1800	39.2	14.6	N/A	N/A	N/A	EM
D32,8	F4L2011	44	1800	41.4	15.4	N/A	N/A	N/A	EM
D34,5	F4L2011	46	1800	43.5	16.2	N/A	N/A	N/A	EM
D26,5	F4M2011	36	1800	33.4	12.4	N/A	N/A	N/A	EM
D28	F4M2011	38	1800	35.3	13.1	N/A	N/A	N/A	EM
D29,4	F4M2011	39	1800	37.1	13.8	N/A	N/A	N/A	EM
D31	F4M2011	42	1800	39.1	14.5	N/A	N/A	N/A	EM
D31,8	F4M2011	43	1800	40.1	14.9	N/A	N/A	N/A	EM
D33,5	F4M2011	45	1800	42.3	15.7	N/A	N/A	N/A	EM

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U-R-013-0108

Manufacturer: DEUTZAG  
Engine Category: Nonroad CI  
EPA Family Name: 3DZX103.1031  
Mfr. Family Name: F2L2011  
Process Code: New Submission

### ENGINE MODEL SUMMARY FORM

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 @ RPM(NM)	7. Peak Torque (mm <sup>3</sup> /stroke)	8. Fuel Rate (lbs./hr) @ Peak Torque	9. Emission Control Device (SAE J1930)
D35,2	F4M2011	47	1800	44.4	16.5	N/A	N/A	N/A	EM <i>SPC,001</i>
CE35,5	F3M2011	48	2700	42.0	16.6	140	44.0	11.7	EM
CE23,5	F2M2011	31	2800	44.0	11.0	93	46.0	7.8	EM
CE23,3	F2M2011	31	2750	44.0	10.9	93	46.0	7.8	EM
CE21,6	F2M2011	29	2400	44.0	10.1	93	46.0	7.8	EM
CE22,5	F2L2011	30	2800	43.0	10.6	89	45.0	7.4	EM