

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	3DZXL06.1010	3.1, 4.1, 6.1	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Smoke Puff Limiter			Pump, 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):

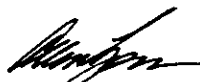
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
37 ≤ kW < 75	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50
		CERT	-	8.5	-	-	-	8	6	10

**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 9<sup>TH</sup> day of December 2002.



Allen Lyons, Chief  
 Mobile Source Operations Division

*Attachments 1 of 2*

Manufacturer: DEUTZ AG  
 Engine Category: Nonroad CI  
 EPA Family Name: 3DZXLO6.1010  
 Mfr. Family Name: F3L913  
 Process Code: New Submission

**ENGINE MODEL SUMMARY FORM**

*U-R-013-0097*

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)	PDI, SPL
C37	F3L913	50	2150	55.0	17.4	177	55.0	13.0	EM	
C37/1	F3L913	50	2000	61.0	17.4	184	59.0	13.6	EM	
C39	F3L913	52	2300	55.0	18.3	180	56.5	13.3	EM	
C39/1	F3L913	52	2150	58.0	18.3	187	58.0	13.8	EM	
C41	F3L913	55	2300	59.0	19.2	190	59.5	14.0	EM	
C42	F3L913	56	2500	55.5	19.7	191	60.0	14.1	EM	
C44	F3L913	59	2500	61.5	20.6	201	65.5	14.8	EM	
C44/1	F3L913	59	2400	62.0	20.6	201	65.5	14.8	EM	
56/11	F4L913	76	2350	60.0	26.6	265	65.0	19.5	EM	
56/11	F4L913	76	2350	60.0	26.6	265	62.0	19.5	EM	
C43	F4L913	58	1800	59.0	20.2	252	60.0	18.6	EM	
C45	F4L913	60	1900	59.0	21.1	252	60.0	18.6	EM	
C46	F4L913	62	1800	64.0	21.6	262	64.0	19.3	EM	
C48/1	F4L913	64	2000	60.0	22.5	252	60.0	18.6	EM	
C50/1	F4L913	67	2150	57.0	23.5	253	59.0	18.7	EM	
C50/2	F4L913	67	2000	63.5	23.5	262	64.0	19.3	EM	
C51,5	F4L913	69	2300	56.0	24.2	250	58.0	18.4	EM	
C53	F4L913	71	2300	58.0	24.9	257	60	18.9	EM	
C53/1	F4L913	71	2150	62.0	24.9	265	64	19.5	EM	
C55	F4L913	74	2300	61.0	25.8	266	64	19.5	EM	
C56	F4L913	75	2500	58.5	26.3	264	64	19.5	EM	
C56/1	F4L913	75	2350	61.0	26.3	268	65.5	19.8	EM	
C56/2	F4L913	75	2300	62.0	26.3	270	66	19.9	EM	
C59	F4L913	79	2500	63.0	27.7	278	68.5	20.5	EM	
C59/1	F4L913	79	2400	63.0	27.7	278	68.5	20.5	EM	
D42	F4L913	56	1800	57.0	19.7	N/A	N/A	N/A	EM	
D44	F4L913	59	1800	61.0	20.6	N/A	N/A	N/A	EM	
D47.5	F4L913	64	1800	67.0	22.4	N/A	N/A	N/A	EM	
D46.5	F4L913	62	1800	65.0	21.8	N/A	N/A	N/A	EM	
C69	F6L913	92	1800	59.0	32.4	370	57.5	27.3	EM	
C72	F6L913	96	2000	56.0	33.8	374	57.5	27.6	EM	
D64	F6L913	86	1800	54.0	30.0	N/A	N/A	N/A	EM	

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### ENGINE MODEL SUMMARY FORM

Manufacturer: DEUTZ AG  
 Engine Category: Nonroad CI  
 EPA Family Name: 3DZX106;1010  
 Mfr. Family Name: F3L913  
 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 @ RPM(NM)	7. Peak Torque (mm <sup>3</sup> /stroke)	8. Fuel Rate (lbs./hr) @ Peak Torque	9. Emission Control Device (SAE J1930)
D67	F6L913	90	1800	56.0	31.4	N/A	N/A	N/A	EM DPF, SCR
D70.5	F6L913	94	1800	60.0	33.1	N/A	N/A	N/A	EM
C37.2	F4L913	50	1800	50.0	17.4	230	55.0	17.0	EM