



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	4DZXL06.1028	4.0, 6.0	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Smoke Puff Limiter, Turbocharger, Charge Air Cooler			Loader, Compressor	

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
75 ≤ kW < 130	Tier 2	STD	N/A	N/A	6.6	5.0	0.30	20	15	50
130 ≤ kW < 225	Tier 2	STD	N/A	N/A	6.6	3.5	0.20	20	15	50
		CERT	-	-	5.6	0.7	0.12	1	0	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 6TH day of January 2004.

Allen Lyons, Chief
Mobile Source Operations Division

Attachment 1033
U-R-013-0129

ENGINE MODEL SUMMARY FORM

Manufacturer: DEUTZ AG
 Engine Category: Nonroad CI
 EPA Family Name: 3DZXL06.1028
 Mfr. Family Name: BF4M2012C
 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 @ RPM (NM)	7. Peak Torque (mm ³ /stroke)	8. Fuel Rate (lbs./hr) @ Peak Torque	9. Emission Control Device (SAE J1930)
CE100	BF4M2012C	134 2400	94.0	47	493	106.0	36.3	EM DDI, SPL7C
CE103	BF4M2012C	138 2500	95.0	48	493	106.0	36.3	EM
CE75	BF4M2012C	101 2000	80.0	35	422	91.0	31.1	EM
CE78	BF4M2012C	105 2100	80.0	37	422	91.0	31.1	EM
CE80	BF4M2012C	107 2000	85.0	38	445	96.0	32.8	EM
CE81	BF4M2012C	109 2200	80.0	38	422	91.0	31.1	EM
CE83	BF4M2012C	111 2300	80.0	39	422	91.0	31.1	EM
CE83/1	BF4M2012C	111 2100	85.0	39	445	96.0	32.8	EM
CE84	BF4M2012C	113 2000	90.0	39	469	101.0	34.6	EM
CE85	BF4M2012C	114 2400	79.0	40	469	91.0	34.6	EM
CE85/1	BF4M2012C	114 2200	85.0	40	469	96.0	34.6	EM
CE87	BF4M2012C	117 2100	89.0	41	469	101.0	34.6	EM
CE88	BF4M2012C	118 2500	80.0	41	469	91.0	34.6	EM
CE88/1	BF4M2012C	118 2300	84.0	41	469	96.0	34.6	EM
CE89	BF4M2012C	119 2000	95.0	42	469	106.0	34.6	EM
CE90	BF4M2012C	121 2400	84.0	42	469	96.0	34.6	EM
CE90/1	BF4M2012C	121 2200	89.0	42	469	101.0	34.6	EM
CE92	BF4M2012C	123 2100	94.0	43	469	106.0	34.6	EM
CE93	BF4M2012C	125 2500	85.0	44	469	96.0	34.6	EM
CE93/1	BF4M2012C	125 2300	89.0	44	469	101.0	34.6	EM
CE95	BF4M2012C	127 2400	89.0	45	469	101.0	34.6	EM
CE95/1	BF4M2012C	127 2200	94.0	45	469	106.0	34.6	EM
CE98	BF4M2012C	131 2500	90.0	46	469	101.0	34.6	EM
CE98/1	BF4M2012C	131 2300	94.0	46	469	106.0	34.6	EM
CE114	BF6M2012C	153 2000	80.0	53	633	89.0	46.7	EM
CE118	BF6M2012C	158 2100	79.0	55	633	89.0	46.7	EM
CE120	BF6M2012C	161 2000	84.0	56	671	95.0	49.5	EM
CE121	BF6M2012C	162 2200	79.0	57	633	89.0	46.7	EM
CE124	BF6M2012C	166 2100	83.0	58	671	95.0	49.5	EM
CE125	BF6M2012C	168 2300	79.0	59	633	89.0	46.7	EM
CE127	BF6M2012C	170 2000	89.0	60	705	100.0	52.0	EM
CE128	BF6M2012C	172 2400	79.0	60	633	89.0	46.7	EM
CE128/1	BF6M2012C	172 2200	83.0	60	671	95.0	49.5	EM
CE131	BF6M2012C	176 2100	88.0	61	705	100.0	52.0	EM

Manufacturer: DEUTZ AG
 Engine Category: Nonroad CI
 EPA Family Name: 3DZXL06.1028
 Mfr. Family Name: BF4M2012C
 Process Code: New Submission

ENGINE MODEL SUMMARY FORM

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 W-1-03-0129

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 @ RPM (NM)	7. Peak Torque (mm ³ /stroke)	8. Fuel Rate (lbs./hr) @ Peak Torque	9. Emission Control Device (SAE J1930)
CE132	BF6M2012C	177 2500	79.0	62	633	89.0	46.7	EM0DF, TC, SP, C
CE132/1	BF6M2012C	177 2300	83.0	62	671	95.0	49.5	EM
CE134	BF6M2012C	180 2000	94.0	63	743	106.0	54.8	EM
CE136	BF6M2012C	182 2400	83.0	64	671	95.0	49.5	EM
CE136/1	BF6M2012C	182 2200	88.0	64	705	100.0	52.0	EM
CE138	BF6M2012C	185 2100	93.0	65	743	106.0	54.8	EM
CE140	BF6M2012C	188 2500	83.0	66	671	95.0	49.5	EM
CE140/1	BF6M2012C	188 2300	88.0	66	705	100.0	52.0	EM
CE143	BF6M2012C	192 2200	93.0	67	743	106.0	54.8	EM
CE144	BF6M2012C	193 2400	88.0	68	705	100.0	52.0	EM
CE147	BF6M2012C	197 2500	88.0	69	705	100.0	52.0	EM
CE147/1	BF6M2012C	197 2300	93.0	69	743	106.0	54.8	EM
CE151	BF6M2012C	202 2400	93.0	71	743	106.0	54.8	EM
CE155	BF6M2012C	208 2500	93.0	73	743	106.0	54.8	EM
CE103	TAD420VE	138 2500	95.0	48	493	106.0	36.3	EM
CE83/1	TAD420VE	111 2100	85.0	39	445	96.0	32.8	EM
CE88/1	TAD420VE	118 2300	84.0	41	445	96.0	32.8	EM
CE92	TAD420VE	123 2100	94.0	43	493	106.0	36.3	EM
CE93	TAD420VE	125 2500	85.0	44	445	96.0	32.8	EM
CE98/1	TAD420VE	131 2300	94.0	46	493	106.0	36.3	EM
CE121	TAD620VE	162 2100	81.0	57	631	92.0	46.5	EM
CE131	TAD620VE	176 2300	83.0	61	631	92.0	46.5	EM
CE135/1	TAD620VE	181 2100	90.0	63	700	103.0	51.6	EM
CE140	TAD620VE	188 2500	84.0	66	671	95.0	49.5	EM
CE145	TAD620VE	194 2300	92.0	68	700	103.0	51.6	EM
CE155	TAD620VE	208 2500	93.0	73	743	106.0	54.8	EM
CE85	TAD620VE	114 2300	55.0	40	500	73.0	36.9	EM
CE103	BF6M2012C	138 2300	65.0	48	550	79.0	40.6	EM
CE90.5T	BF6M2012C	121 2300	55.0	42	500	71.8	36.9	EM
CE90.5T1	BF6M2012C	121 2300	55.0	42	500	71.8	36.9	EM
CE94T	BF6M2012C	126 2300	57.0	44	510	73.3	37.6	EM
CE102T	BF6M2012C	137 2300	62.0	48	530	76.2	39.1	EM
CE77.5T	BF4M2012C	77.6 104 2300	70.6	36	400	86.2	29.5	EM
CE82.5T	BF4M2012C	111 2300	75.2	39	410	88.4	30.2	EM

Manufacturer: DEUTZ AG
 Engine Category: Nonroad CI
 EPA Family Name: 3DZXL06.1028
 Mfr. Family Name: BF4M2012C
 Process Code: New Submission

ENGINE MODEL SUMMARY FORM

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 4-R-00-0125

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 @ RPM (NM)	7. Peak Torque (mm ³ /stroke)	8. Fuel Rate (lbs./hr) @ Peak Torque	9. Emission Control Device (SAE J1930)
CE78T	BF4M2012C	105 2300	71.1	37	400	86.2	29.5	EM W1, TC, SPL, CA
CE82T	BF4M2012C	110 2100	83.0	38	420	90.5	31.0	EM
CE89T	BF4M2012C	119 2100	87.3	42	430	92.7	31.7	EM
CE95T	BF4M2012C	127 2100	93.2	45	430	92.7	31.7	EM
CE103/1	BF6M2012C	138 2100	70.0	48	550	79.0	40.6	EM
CE95	D4DRBE2	127 2200	94.0	45	493	106.0	36.3	EM
CE121	D6DRAE2	162 2200	82.0	57	633	99.0	46.7	EM
CE82	D4DDCE2	110 2100	85.0	38	445	96.0	32.8	EM
CE90	D4DDDE2	121 2200	89.0	42	469	101.0	34.6	EM