

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	3DZXL06.1028	4.0, 6.1	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Smoke Puff Limiter, Turbocharger, Charge Air Cooler			Loader, Compressor, 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
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 9TH day of December 2002.


 Allen Lyons, Chief
 Mobile Source Operations Division

Attachment 1 of 3

Manufacturer: DEUTZAG
Engine Category: Nonroad CI
EPA Family Name: 3DZX106.1028
Mfr. Family Name: BF4M2012C
Process Code: New Submission

ENGINE MODEL SUMMARY FORM

4-8-013-0094

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	46.9	493	1500	106.0	36.3	EM Def, SR, TC, CR
CE103	BF4M2012C	138	2500	95.0	48.3	493	1500	106.0	36.3	EM
CE75	BF4M2012C	101	2000	80.0	35.2	422	1500	91.0	31.1	EM
CE78	BF4M2012C	105	2100	80.0	36.6	422	1500	91.0	31.1	EM
CE80	BF4M2012C	107	2000	85.0	37.5	445	1500	96.0	32.8	EM
CE81	BF4M2012C	109	2200	80.0	38.0	422	1500	91.0	31.1	EM
CE83	BF4M2012C	111	2300	80.0	38.9	422	1500	91.0	31.1	EM
CE89/1	BF4M2012C	111	2100	85.0	38.9	445	1500	96.0	32.8	EM
CE84	BF4M2012C	113	2000	90.0	39.4	469	1500	101.0	34.6	EM
CE85	BF4M2012C	114	2400	79.0	39.9	469	1500	91.0	34.6	EM
CE85/1	BF4M2012C	114	2200	85.0	39.9	469	1500	96.0	34.6	EM
CE87	BF4M2012C	117	2100	89.0	40.8	469	1500	101.0	34.6	EM
CE88	BF4M2012C	118	2500	80.0	41.3	469	1500	91.0	34.6	EM
CE88/1	BF4M2012C	118	2300	84.0	41.3	469	1500	96.0	34.6	EM
CE89	BF4M2012C	119	2000	95.0	41.7	469	1500	106.0	34.6	EM
CE90	BF4M2012C	121	2400	84.0	42.2	469	1500	96.0	34.6	EM
CE90/1	BF4M2012C	121	2200	89.0	42.2	469	1500	101.0	34.6	EM
CE92	BF4M2012C	123	2100	94.0	43.1	469	1500	106.0	34.6	EM
CE93	BF4M2012C	125	2500	85.0	43.6	469	1500	96.0	34.6	EM
CE93/1	BF4M2012C	125	2300	89.0	43.6	469	1500	101.0	34.6	EM
CE95	BF4M2012C	127	2400	89.0	44.6	469	1500	101.0	34.6	EM
CE95/1	BF4M2012C	127	2200	94.0	44.6	469	1500	106.0	34.6	EM
CE98	BF4M2012C	131	2500	90.0	46.0	469	1500	101.0	34.6	EM
CE98/1	BF4M2012C	131	2300	94.0	46.0	469	1500	106.0	34.6	EM
CE114	BF6M2012C	153	2000	80.0	53.5	633	1500	89.0	46.7	EM
CE118	BF6M2012C	158	2100	79.0	55.3	633	1500	89.0	46.7	EM
CE120	BF6M2012C	161	2000	84.0	56.3	671	1500	95.0	49.5	EM
CE121	BF6M2012C	162	2200	79.0	56.7	633	1500	89.0	46.7	EM
CE124	BF6M2012C	166	2100	83.0	58.2	671	1500	95.0	49.5	EM
CE125	BF6M2012C	168	2300	79.0	58.6	633	1500	89.0	46.7	EM
CE127	BF6M2012C	170	2000	89.0	59.6	705	1500	100.0	52.0	EM
CE128	BF6M2012C	172	2400	79.0	60.0	633	1500	89.0	46.7	EM

Manufacturer: DEUTZ AG
 Engine Category: Nonroad CI
 EPA Family Name: 3DZX106.1028
 Mfr. Family Name: BF4M2012C
 Process Code: New Submission

ENGINE MODEL SUMMARY FORM

U-R-013-0094

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)
CE128/1	BF6M2012C	172	2200	83.0	60.0	671	1500	49.5	EM <i>DPF, SCR, T, DPF</i>
CE131	BF6M2012C	176	2100	88.0	61.4	705	1500	52.0	EM
CE132	BF6M2012C	177	2500	79.0	61.9	633	1500	46.7	EM
CE132/1	BF6M2012C	177	2300	83.0	61.9	671	1500	49.5	EM
CE134	BF6M2012C	180	2000	94.0	62.8	743	1500	54.8	EM
CE136	BF6M2012C	182	2400	83.0	63.8	671	1500	49.5	EM
CE136/1	BF6M2012C	182	2200	88.0	63.8	705	1500	52.0	EM
CE138	BF6M2012C	185	2100	93.0	64.7	743	1500	54.8	EM
CE140	BF6M2012C	188	2500	83.0	65.7	671	1500	49.5	EM
CE140/1	BF6M2012C	188	2300	88.0	65.7	705	1500	52.0	EM
CE143	BF6M2012C	192	2200	93.0	67.1	743	1500	54.8	EM
CE144	BF6M2012C	193	2400	88.0	67.5	705	1500	52.0	EM
CE147	BF6M2012C	197	2500	88.0	68.9	705	1500	52.0	EM
CE147/1	BF6M2012C	197	2300	93.0	68.9	743	1500	54.8	EM
CE151	BF6M2012C	202	2400	93.0	70.8	743	1500	54.8	EM
CE155	BF6M2012C	208	2500	93.0	72.7	743	1500	54.8	EM
CE103	TAD420VE	138	2500	95.0	48.3	493	1500	36.3	EM
CE88/1	TAD420VE	111	2100	85.0	38.9	445	1500	32.8	EM
CE92	TAD420VE	118	2300	84.0	41.3	445	1500	32.8	EM
CE93	TAD420VE	123	2100	94.0	43.1	493	1500	36.3	EM
CE93	TAD420VE	125	2500	85.0	43.6	445	1500	32.8	EM
CE98/1	TAD420VE	131	2300	94.0	46.0	493	1500	36.3	EM
CE121	TAD620VE	162	2100	81.0	56.7	631	1500	46.5	EM
CE131	TAD620VE	176	2300	83.0	61.4	631	1500	46.5	EM
CE135/1	TAD620VE	181	2100	90.0	63.3	700	1500	51.6	EM
CE140	TAD620VE	188	2500	84.0	65.7	671	1500	49.5	EM
CE145	TAD620VE	194	2300	92.0	68.0	700	1500	51.6	EM
CE155	TAD620VE	208	2500	93.0	72.7	743	1500	54.8	EM
CE85	TAD620VE	114	2300	55.0	39.9	500	1500	36.9	EM
CE103	BF6M2012C	138	2300	65.0	48.3	550	1500	40.6	EM
CE90.5T	BF6M2012C	121	2300	55.0	42.4	500	1500	36.9	EM
CE90.5T1	BF6M2012C	121	2300	55.0	42.4	500	1500	36.9	EM

Manufacturer: DEUTZ AG
 Engine Category: Nonroad CI
 EPA Family Name: 3DZXLD6.1028
 Mfr. Family Name: BF4M2012C
 Process Code: New Submission

ENGINE MODEL SUMMARY FORM

u-r-013-0094

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 ² /stroke)	8. Fuel Rate (lbs./hr) @ Peak Torque	9. Emission Control Device (SAE J1930)
CE94T	BF6M2012C	126	2300	57.0	44.1	510	73.3	37.6	EM S14 TC, CTC, OOI
CE102T	BF6M2012C	137	2300	62.0	47.8	530	76.2	39.1	EM
CE77.5T	BF4M2012C	104	2300	70.6	36.3	400	86.2	29.5	EM
CE82.5T	BF4M2012C	111	2300	75.2	38.7	410	88.4	30.2	EM
CE78T	BF4M2012C	105	2300	71.1	36.6	400	86.2	29.5	EM
CE82T	BF4M2012C	110	2100	83.0	38.5	420	90.5	31.0	EM
CE89T	BF4M2012C	119	2100	87.3	41.7	430	92.7	31.7	EM
CE95T	BF4M2012C	127	2100	93.2	44.6	430	92.7	31.7	EM
CE103/1	BF6M2012C	138	2100	70.0	48.3	550	79.0	40.6	EM

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