

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	3DZXL07.1034	7.2	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	6.5	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	-	-	5.9	1.1	0.12	4	1	9

**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 11*

Manufacturer: DEUTZ AG  
 Engine Category: Nonroad CI  
 EPA Family Name: 3DZX107.1034  
 Mfr. Family Name: BF6M1013C  
 Process Code: New Submission

**ENGINE MODEL SUMMARY FORM**

*U-R-013-0088*

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)
CE132	BF6M1013C	177	2100	99	61.9	713	1400	49.1	EM P02, P1, C4C, S4L
CE136	BF6M1013C	182	2200	99	63.8	713	1400	49.1	EM
CE136/1	BF6M1013C	182	2000	103	63.8	755	1400	52.0	EM
CE139	BF6M1013C	205	2300	100	71.8	713	1400	49.1	EM
CE140/1	BF6M1013C	188	2100	104	65.7	755	1400	52.0	EM
CE143/1	BF6M1013C	192	2000	108	67.1	797	1400	54.8	EM
CE144	BF6M1013C	193	2200	105	67.5	755	1400	52.0	EM
CE148/1	BF6M1013C	198	2300	106	69.4	755	1400	52.0	EM
CE148/2	BF6M1013C	198	2100	110	69.4	797	1400	54.8	EM
CE151/1	BF6M1013C	202	2000	114	70.8	840	1400	57.8	EM
CE151/2	BF6M1013C	202	1846	120	70.8	840	1400	57.8	EM
CE152/1	BF6M1013C	204	2200	111	71.3	797	1400	54.8	EM
CE156/1	BF6M1013C	209	2300	112	73.2	797	1400	54.8	EM
CE156/2	BF6M1013C	209	2100	116	73.2	840	1400	57.8	EM
CE157/2	BF6M1013C	210	2000	120	73.6	840	1400	57.8	EM
CE160/2	BF6M1013C	214	2400	112	75.0	797	1400	54.8	EM
CE161	BF6M1013C	216	2200	117	75.5	840	1400	57.8	EM
CE165/3	BF6M1013C	221	2300	118	77.4	840	1400	57.8	EM
CE143	BF6M1013CP	192	2000	110	67.1	784	1600	61.7	EM
CE146	BF6M1013CP	196	2100	110	68.5	784	1600	61.7	EM
CE151	BF6M1013CP	202	2000	116	70.8	830	1600	65.3	EM
CE155	BF6M1013CP	208	2300	111	72.7	784	1600	61.7	EM
CE156	BF6M1013CP	209	2100	118	73.2	830	1600	65.3	EM
CE158/1	BF6M1013CP	212	1800	130	74.1	887	1600	69.8	EM
CE159	BF6M1013CP	213	2000	122	74.6	877	1600	69.0	EM
CE164	BF6M1013CP	220	2100	124	76.9	877	1600	69.0	EM
CE165/4	BF6M1013CP	221	2300	118	77.4	830	1600	65.3	EM
CE166/1	BF6M1013CP	222	2200	120	77.9	830	1600	65.3	EM
CE168	BF6M1013CP	225	2000	129	78.8	887	1600	69.8	EM
CE169/3	BF6M1013CP	226	1846	135	79.3	887	1400	61.0	EM
CE170/3	BF6M1013CP	228	2200	123	79.7	877	1600	69.0	EM
CE173/1	BF6M1013CP	232	2100	132	81.1	937	1400	64.5	EM

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Manufacturer: DEUTZ AG  
Engine Category: Nonroad CI  
EPA Family Name: 3DZXLO7.1034  
Mfr. Family Name: BF6M1013C  
Process Code: New Submission

### ENGINE MODEL SUMMARY FORM

U-2-013-0088

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)
CE173/2	BF6M1013CP	232	2100	130	81.1	887	132	69.8	EM <i>00F, 54, 75, 04C</i>
CE175	BF6M1013CP	235	2300	125	82.1	877	128	69.0	EM
CE175/1	BF6M1013CP	235	2000	135	82.1	887	132	61.0	EM
CE179/1	BF6M1013CP	240	2200	130	84.0	887	130	69.8	EM
CE179/2	BF6M1013CP	240	2200	130	84.0	937	133	64.5	EM
CE179/3	BF6M1013CP	240	2400	125	84.0	865	124	68.0	EM
CE184/1	BF6M1013CP	247	2300	134	86.3	937	133	64.5	EM
CE184/2	BF6M1013CP	247	2300	131	86.3	887	130	69.8	EM
CE142	BF6M1013EC	190	2000	103	66.6	769	112	52.9	EM
CE144T	BF6M1013FC	193	2300	93	67.5	867	125	63.9	EM
CE146/1	BF6M1013EC	196	2100	104	68.5	769	112	52.9	EM
CE147/1	BF6M1013EC	200	2200	105	70.0	784	114	61.7	EM
CE147T	BF6M1013EC	197	2350	102	68.9	756	109	55.7	EM
CE147T1	BF6M1013EC	200	2200	102	70.0	836	121	61.6	EM
CE148	BF6M1013EC	205	2300	100	71.8	727	105	50.0	EM
CE149	BF6M1013EC	200	2000	108	69.9	811	118	55.8	EM
CE152	BF6M1013EC	204	2200	105	71.3	769	112	52.9	EM
CE154	BF6M1013EC	206	2100	110	72.2	811	118	55.8	EM
CE156/3	BF6M1013EC	209	1846	120	73.2	854	124	58.8	EM
CE157	BF6M1013EC	210	2300	106	73.6	769	112	52.9	EM
CE157/1	BF6M1013EC	210	2000	114	73.6	854	124	58.8	EM
CE160	BF6M1013EC	214	2200	111	75.0	811	118	55.8	EM
CE162	BF6M1013EC	217	2100	116	76.0	854	124	58.8	EM
CE162/1	BF6M1013EC	217	2200	112	76.0	854	124	58.8	EM
CE163	BF6M1013EC	218	2000	120	76.4	854	118	55.8	EM
CE165/5	BF6M1013EC	221	2300	112	77.4	811	118	55.8	EM
CE169/2	BF6M1013EC	226	2200	117	79.3	854	124	58.8	EM
CE170/4	BF6M1013EC	228	2400	112	79.7	811	118	55.8	EM
CE174/2	BF6M1013EC	233	2300	118	81.6	854	124	58.8	EM
CE158	BF6M1013ECP	212	2000	116	74.1	850	124	66.8	EM
CE161/1	BF6M1013ECP	216	1900	124	75.5	897	131	70.5	EM
CE162/2	BF6M1013ECP	217	2200	110	76.0	850	121	66.8	EM

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Manufacturer: DEUTZ AG  
 Engine Category: Nonroad CI  
 EPA Family Name: 3DZXL07.1034  
 Mfr. Family Name: BF6M1013C  
 Process Code: New Submission

ENGINE MODEL SUMMARY FORM

U-R-013-0088

1. Engine Code	2. Engine Model	3. BHP@	RPM	4. Fuel Rate @ Rated Power (mms3/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)
CE163/1	BF6M1013ECP	218	1800	130	76.4	897	131	70.5	EM <i>DPF, SCR, TC, CAT</i>
CE165/2	BF6M1013ECP	221	2100	118	77.4	850	124	66.8	EM
CE166	BF6M1013ECP	222	2000	122	77.9	897	131	70.5	EM
CE170/2	BF6M1013ECP	228	2200	116	79.7	850	121	66.8	EM
CE173	BF6M1013ECP	232	2100	124	81.1	897	131	70.5	EM
CE174/3	BF6M1013ECP	233	1846	135	81.6	907	132	62.4	EM
CE176/3	BF6M1013ECP	236	2300	118	82.5	850	121	66.8	EM
CE179	BF6M1013ECP	240	2200	123	84.0	897	128	70.5	EM
CE182	BF6M1013ECP	244	2100	132	85.4	954	135	65.6	EM
CE182/1	BF6M1013ECP	244	2100	130	85.4	907	132	71.3	EM
CE182/2	BF6M1013ECP	244	2000	135	85.4	907	132	62.4	EM
CE186/3	BF6M1013ECP	249	2300	125	87.2	897	128	70.5	EM
CE188/2	BF6M1013ECP	252	2200	130	88.2	954	133	65.6	EM
CE188/3	BF6M1013ECP	252	2200	130	88.2	907	130	71.3	EM
CE190/2	BF6M1013ECP	255	2400	125	89.1	885	124	69.6	EM
CE195/1	BF6M1013ECP	261	2300	134	91.5	954	133	65.6	EM
CE195/2	BF6M1013ECP	261	2300	131	91.5	907	130	71.3	EM
CE134	BF6M1013FC	249	2100	135	87.2	1008	143	69.4	EM
CE165	BF6M1013FC	221	2000	121	77.4	925	134	68.2	EM
CE165/1	BF6M1013FC	221	2000	122	77.4	925	131	63.7	EM
CE167	BF6M1013FC	224	2100	119	78.3	925	134	68.2	EM
CE167/1	BF6M1013FC	224	2100	121	78.3	925	131	63.7	EM
CE169	BF6M1013FC	226	2200	116	79.3	925	133	68.2	EM
CE169/1	BF6M1013FC	226	2200	118	79.3	925	131	63.7	EM
CE169T	BF6M1013FC	226	2350	110	79.3	928	131	68.4	EM
CE169T1	BF6M1013FC	230	2200	116	80.5	995	141	73.4	EM
CE170	BF6M1013FC	228	2300	115	79.7	925	133	68.2	EM
CE170/1	BF6M1013FC	228	2300	119	79.7	925	131	63.7	EM
CE173/3	BF6M1013FC	232	1800	140	81.1	1008	146	74.3	EM
CE174	BF6M1013FC	233	2000	128	81.6	967	140	71.3	EM
CE174/1	BF6M1013FC	233	2000	129	81.6	967	137	66.5	EM
CE176	BF6M1013FC	236	2100	126	82.5	967	140	71.3	EM

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Manufacturer: DEUTZ AG  
 Engine Category: Nonroad CI  
 EPA Family Name: 3DZXLO7.1034  
 Mfr. Family Name: BF6M1013C  
 Process Code: New Submission

ENGINE MODEL SUMMARY FORM

4-R-013-0088

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)	
CE176/1	BF6M1013FC	236	2100	127	82.5	967	1400	137	66.5	EM <i>DP, SQR, TC, CAC</i>
CE176/2	BF6M1013FC	236	2000	129	82.5	903	1700	135	75.5	EM
CE178	BF6M1013FC	239	2200	123	83.5	967	1500	139	71.3	EM
CE178/1	BF6M1013FC	239	2200	124	83.5	967	1400	137	66.5	EM
CE180/1	BF6M1013FC	241	2300	126	84.4	967	1400	137	66.5	EM
CE180/2	BF6M1013FC	241	2300	122	84.4	967	1500	139	71.3	EM
CE183	BF6M1013FC	245	2000	134	85.8	1008	1500	145	74.3	EM
CE183/1	BF6M1013FC	245	2000	136	85.8	1008	1400	143	69.4	EM
CE184	BF6M1013FC	247	2100	132	86.3	903	1700	135	75.5	EM
CE186	BF6M1013FC	249	2100	132	87.2	1008	1500	145	74.3	EM
CE186/2	BF6M1013FC	249	2000	137	87.2	952	1700	141	79.5	EM
CE186T	BF6M1013FC	249	2200	128	87.2	1065	1500	151	78.5	EM
CE188	BF6M1013FC	252	2200	130	88.2	1008	1500	144	74.3	EM
CE188/1	BF6M1013FC	252	2200	130	88.2	1008	1400	141	69.4	EM
CE190	BF6M1013FC	255	2300	129	89.1	1008	1500	144	74.3	EM
CE190/1	BF6M1013FC	255	2300	130	89.1	1008	1400	141	69.4	EM
CE191	BF6M1013FC	256	2000	140	89.6	1050	1500	152	77.4	EM
CE191/1	BF6M1013FC	256	2000	142	89.6	1050	1400	149	72.3	EM
CE191T	BF6M1013FC	256	2350	123	89.6	1050	1500	149	77.4	EM
CE192	BF6M1013FC	257	2200	130	90.0	903	1700	133	75.5	EM
CE194	BF6M1013FC	260	2100	138	91.0	1050	1500	152	77.4	EM
CE194/1	BF6M1013FC	260	2100	141	91.0	1050	1400	149	72.3	EM
CE195	BF6M1013FC	261	2100	140	91.5	952	1700	141	79.5	EM
CE197	BF6M1013FC	264	2200	135	92.4	1050	1500	153	77.4	EM
CE197/1	BF6M1013FC	264	2200	136	92.4	1050	1400	147	72.3	EM
CE200	BF6M1013FC	268	2300	135	93.8	1050	1500	153	77.4	EM
CE200/1	BF6M1013FC	268	2300	137	93.8	1050	1400	147	72.3	EM
CE200/2	BF6M1013FC	268	2300	130	93.8	903	1700	133	75.5	EM
CE200/3	BF6M1013FC	268	2000	145	93.8	1000	1700	147	83.6	EM
CE203	BF6M1013FC	272	2250	134	95.2	1000	1700	145	83.6	EM
CE203/1	BF6M1013FC	272	2200	138	95.2	952	1700	139	79.5	EM
CE205	BF6M1013FC	275	2100	145	96.1	1000	1700	147	83.6	EM

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Manufacturer: DEUTZ AG  
Engine Category: Nonroad CI  
EPA Family Name: 3DZXL07.1034  
Mfr. Family Name: BF6M1013C  
Process Code: New Submission

### ENGINE MODEL SUMMARY FORM

U-2-012-0088

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)	
CE206	BF6M1013FC	276	2000	150	96.6	1050	1700	152	87.7	EM P <sub>01</sub> , 10% T <sub>C</sub> , CAC
CE210	BF6M1013FC	261	2300	136	91.5	1000	1700	145	83.6	EM
CE212	BF6M1013FC	284	2300	138	99.4	952	1700	139	79.5	EM
CE214	BF6M1013FC	287	2200	144	100.4	1000	1700	145	83.6	EM
CE216	BF6M1013FC	289	2100	151	101.3	1050	1700	152	87.7	EM
CE223	BF6M1013FC	299	2300	146	104.6	1000	1700	145	83.6	EM
CE226	BF6M1013FC	303	2200	152	106.0	1050	1700	151	87.7	EM
CE230	BF6M1013FC	295	2300	150	103.2	1050	1700	151	87.7	EM
CE235	BF6M1013FC	315	2300	154	110.2	1050	1700	151	87.7	EM
CE134/1	TAD720VE	180	2000	97	62.8	727	1400	105	50.0	EM
CE146	TAD720VE	196	2100	104	68.5	769	1400	112	52.9	EM
CE152	TAD720VE	204	2200	105	71.3	769	1400	112	52.9	EM
CE154	TAD720VE	206	2100	110	72.2	811	1400	118	55.8	EM
CE157	TAD720VE	210	2300	106	73.6	769	1400	112	52.9	EM
CE162	TAD720VE	217	2100	116	76.0	854	1400	124	58.8	EM
CE165	TAD720VE	221	2300	112	77.4	811	1400	118	55.8	EM
CE169	TAD720VE	226	2200	117	79.3	854	1400	124	58.8	EM
CE174	TAD720VE	233	2300	118	81.6	854	1400	124	58.8	EM
CE165/1	TAD721VE	221	2100	118	77.4	850	1600	123	66.8	EM
CE170	TAD721VE	228	2200	116	79.7	850	1600	123	66.8	EM
CE176	TAD721VE	236	2300	118	82.5	850	1600	123	66.8	EM
CE182	TAD721VE	244	2100	130	85.4	907	1600	130	71.3	EM
CE188	TAD721VE	252	2200	130	88.2	907	1600	130	71.3	EM
CE195	TAD721VE	261	2300	131	91.5	907	1600	130	71.3	EM
CE112	BF4M1013C	150	2300	110	52.5	569	1400	122	39.2	EM
CE109	BF4M1013C	146	2300	107	51.1	540	1400	116	37.2	EM
CE101	BF4M1013C	135	2300	99	47.4	512	1400	110	35.2	EM
CE96	BF4M1013C	129	2300	94	45.0	483	1400	104	33.2	EM
CE109/1	BF4M1013C	146	2200	112	51.1	569	1400	122	39.2	EM
CE106/1	BF4M1013C	142	2200	108	49.7	540	1400	116	37.2	EM
CE99	BF4M1013C	133	2200	101	46.4	512	1400	110	35.2	EM
CE94/2	BF4M1013C	126	2200	96	44.1	483	1400	104	33.2	EM

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Manufacturer: DEUTZ AG  
 Engine Category: Nonroad CI  
 EPA Family Name: 3DZXL07.1034  
 Mfr. Family Name: BF6M1013C  
 Process Code: New Submission

ENGINE MODEL SUMMARY FORM

4-2-013-0088

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 (N/M)	7. Peak Torque (mm <sup>3</sup> /stroke)	8. Fuel Rate (lbs./hr) @ Peak Torque	9. Emission Control Device (SAE J1930)
CE106/2	BF4M1013C	142	2100	114	49.7	569	1400	39.2	EM n <sub>ox</sub> , SO <sub>x</sub> , TC, CH <sub>4</sub>
CE102	BF4M1013C	137	2100	109	47.8	540	1400	37.2	EM
CE97	BF4M1013C	130	2100	104	45.5	512	1400	35.2	EM
CE92	BF4M1013C	123	2100	99	43.1	483	1400	33.2	EM
CE102/1	BF4M1013C	137	2000	115	47.8	569	1400	39.2	EM
CE99/2	BF4M1013C	133	2000	111	46.4	540	1400	37.2	EM
CE94/1	BF4M1013C	126	2000	106	44.1	512	1400	35.2	EM
CE88	BF4M1013C	118	2000	99	41.3	483	1400	33.2	EM
DE97	BF4M1013C	130	1800	121	45.5	N/A	N/A	N/A	EM
DE92	BF4M1013C	123	1800	115	43.1	N/A	N/A	N/A	EM
DE88	BF4M1013C	118	1800	110	41.3	N/A	N/A	N/A	EM
DE103	BF4M1013C	138	1846	126	48.3	N/A	N/A	N/A	EM
DE93	BF4M1013C	125	1846	113	43.6	N/A	N/A	N/A	EM
DE106	BF4M1013C	142	2000	119	49.7	N/A	N/A	N/A	EM
DE96	BF4M1013C	129	2000	108	45.0	N/A	N/A	N/A	EM
DE110	BF4M1013C	147	2400	103	51.6	N/A	N/A	N/A	EM
DE100	BF4M1013C	134	2400	94	46.9	N/A	N/A	N/A	EM
CE118	BF4M1013EC	158	2300	115	55.3	577	1400	39.7	EM
CE115	BF4M1013EC	154	2300	113	53.9	548	1400	37.7	EM
CE107	BF4M1013EC	143	2300	105	50.2	520	1400	35.8	EM
CE102/2	BF4M1013EC	137	2300	100	47.8	491	1400	33.8	EM
CE114	BF4M1013EC	153	2200	117	53.5	577	1400	39.7	EM
CE111	BF4M1013EC	149	2200	114	52.1	548	1400	37.7	EM
CE104	BF4M1013EC	139	2200	106	48.8	520	1400	35.8	EM
CE99/2	BF4M1013EC	133	2200	101	46.4	491	1400	33.8	EM
CE110	BF4M1013EC	147	2100	118	51.6	577	1400	39.7	EM
CE106/2	BF4M1013EC	142	2100	114	49.7	548	1400	37.7	EM
CE101/1	BF4M1013EC	135	2100	108	47.4	520	1400	35.8	EM
CE96/1	BF4M1013EC	129	2100	103	45.0	491	1400	33.8	EM
CE106/3	BF4M1013EC	142	2000	119	49.7	577	1400	39.7	EM
CE103	BF4M1013EC	138	2000	116	48.3	548	1400	37.7	EM
CE98	BF4M1013EC	131	2000	110	46.0	520	1400	35.8	EM

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Manufacturer: DEUTZ AG  
Engine Category: Nonroad CI  
EPA Family Name: 3DZXLO7.1034  
Mfr. Family Name: BF6M1013C  
Process Code: New Submission

### ENGINE MODEL SUMMARY FORM

U-R-013-0288

1. Engine Code	2. Engine Model	3. BHP@	RPM	4. Fuel Rate @ (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)
CE92/1	BF4M1013EC	123	2000	104	43.1	491	106	33.8	EM, D <sub>95</sub> , S <sub>92</sub> , T <sub>9</sub> , C <sub>92</sub>
DE110/1	BF4M1013EC	147	1800	138	51.6	N/A	N/A	N/A	EM
DE105	BF4M1013EC	141	1800	131	49.2	N/A	N/A	N/A	EM
DE100/1	BF4M1013EC	134	1800	125	46.9	N/A	N/A	N/A	EM
DE104	BF4M1013EC	139	1846	127	48.8	N/A	N/A	N/A	EM
DE95	BF4M1013EC	127	1846	116	44.6	N/A	N/A	N/A	EM
DE108	BF4M1013EC	145	2000	122	50.7	N/A	N/A	N/A	EM
DE98	BF4M1013EC	131	2000	110	46.0	N/A	N/A	N/A	EM
DE113	BF4M1013EC	151	2400	106	53.0	N/A	N/A	N/A	EM
DE103/1	BF4M1013EC	138	2400	97	48.3	N/A	N/A	N/A	EM
CE125	BF4M1013FC	168	2300	122	58.6	630	135	46.4	EM
CE119	BF4M1013FC	159	2300	116	55.8	604	130	44.5	EM
CE112/1	BF4M1013FC	150	2300	110	52.5	578	124	42.6	EM
CE106/4	BF4M1013FC	142	2300	104	49.7	552	119	40.7	EM
CE129	BF4M1013FC	173	2300	126	60.5	700	151	48.2	EM
CE126	BF4M1013FC	169	2300	123	59.1	672	145	46.2	EM
CE120	BF4M1013FC	161	2300	117	56.3	645	139	44.4	EM
CE113	BF4M1013FC	151	2300	111	53.0	617	133	42.5	EM
CE123	BF4M1013FC	165	2200	126	57.7	630	135	46.4	EM
CE117	BF4M1013FC	157	2200	120	54.9	604	130	44.5	EM
CE111/1	BF4M1013FC	149	2200	114	52.1	578	124	42.6	EM
CE105	BF4M1013FC	141	2200	107	49.2	552	119	40.7	EM
CE129/1	BF4M1013FC	173	2200	132	60.5	700	151	48.2	EM
CE125/1	BF4M1013FC	168	2200	128	58.6	672	145	46.2	EM
CE119/1	BF4M1013FC	159	2200	122	55.8	645	139	44.4	EM
CE112/2	BF4M1013FC	150	2200	115	52.5	617	133	42.5	EM
CE120/1	BF4M1013FC	161	2100	129	56.3	630	135	46.4	EM
CE113/1	BF4M1013FC	151	2100	121	53.0	604	130	44.5	EM
CE109/2	BF4M1013FC	146	2100	117	51.1	578	124	42.6	EM
CE103/1	BF4M1013FC	138	2100	110	48.3	552	119	40.7	EM
CE129/1	BF4M1013FC	173	2100	138	60.5	700	151	48.2	EM
CE124	BF4M1013FC	166	2100	133	58.2	672	145	46.2	EM



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Manufacturer: DEUTZ AG  
 Engine Category: Nonroad CI  
 EPA Family Name: 3DZX107.1034  
 Mfr. Family Name: BF6M1013C  
 Process Code: New Submission

ENGINE MODEL SUMMARY FORM

4-013-0088

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)
CE118/1	BF4M1013FC	158	2100	126	55.3	645	139	44.4	EM 5Fl, 005, TT, cAtC
CE111/2	BF4M1013FC	149	2100	119	52.1	617	133	42.5	EM
CE117/1	BF4M1013FC	157	2000	132	54.9	630	135	46.4	EM
CE112/3	BF4M1013FC	150	2000	126	52.5	604	130	44.5	EM
CE107/1	BF4M1013FC	143	2000	120	50.2	578	124	42.6	EM
CE101/2	BF4M1013FC	135	2000	114	47.4	552	119	40.7	EM
CE128	BF4M1013FC	172	2000	144	60.0	700	151	48.2	EM
CE122	BF4M1013FC	163	2000	137	57.2	672	145	46.2	EM
CE116	BF4M1013FC	155	2000	131	54.4	645	139	44.4	EM
CE110/1	BF4M1013FC	147	2000	124	51.6	617	133	42.5	EM
DE119	BF4M1013FC	159	2400	112	55.8	N/A	N/A	N/A	EM
DE108/1	BF4M1013FC	145	2400	101	50.7	N/A	N/A	N/A	EM
DE117	BF4M1013FC	157	2000	132	54.9	N/A	N/A	N/A	EM
DE106/1	BF4M1013FC	142	2000	119	49.7	N/A	N/A	N/A	EM
DE122	BF4M1013FC	163	1846	149	57.2	N/A	N/A	N/A	EM
DE111	BF4M1013FC	149	1846	135	52.1	N/A	N/A	N/A	EM
CE86	BF4M1013EC	115	1800	108	40.3	520	112	35.8	EM
CE80	BF4M1013EC	107 713	1800	100	37.5	520	112	35.8	EM
DE110/1	TAD520GE	147	1800	138	51.6	N/A	N/A	N/A	EM
CE118	TAD520VE	158	2300	115	55.3	577	124	39.7	EM
CE107	TAD520VE	143	2300	105	50.2	520	112	35.8	EM
CE114	TAD520VE	153	2200	117	53.5	577	124	39.7	EM
CE110	TAD520VE	147	2100	118	51.6	577	124	39.7	EM
CE101/1	TAD520VE	135	2100	108	47.4	520	112	35.8	EM
CE104	TAD520VE	139	2200	106	48.8	520	112	35.8	EM
CE129	BF6M1013C	173	2300	84	60.5	713	105	49.1	EM
CE176	TAD722VE	236	2100	126	82.5	967	140	71.3	EM
CE176/1	TAD722VE	236	2100	127	82.5	967	137	66.5	EM
CE178	TAD722VE	239	2200	123	83.5	967	139	71.3	EM
CE178/1	TAD722VE	239	2200	124	83.5	967	137	66.5	EM
CE180/1	TAD722VE	241	2300	126	84.4	967	137	66.5	EM
CE180/2	TAD722VE	241	2300	122	84.4	967	139	71.3	EM

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Manufacturer: DEUTZ AG  
 Engine Category: Nonroad CI  
 EPA Family Name: 3DZX107.1034  
 Mfr. Family Name: BF6M1013C  
 Process Code: New Submission

ENGINE MODEL SUMMARY FORM

11-1-013-00 88

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)
CE194	TAD722VE	260	2100	138	91.0	1050	1500	77.4	EM <i>DEF, TG, CO, SP</i>
CE194/1	TAD722VE	260	2100	141	91.0	1050	1400	72.3	EM
CE195	TAD722VE	261	2100	140	91.5	952	1700	79.5	EM
CE197	TAD722VE	264	2200	135	92.4	1050	1500	77.4	EM
CE197/1	TAD722VE	264	2200	136	92.4	1050	1400	72.3	EM
CE200	TAD722VE	268	2300	135	93.8	1050	1500	77.4	EM
CE200/1	TAD722VE	268	2300	137	93.8	1050	1400	72.3	EM
CE203/1	TAD722VE	272	2200	138	95.2	952	1700	79.5	EM
CE212	TAD722VE	284	2300	138	99.4	952	1700	79.5	EM
CE226	TAD722VE	303	2200	152	106.0	1050	1700	87.7	EM
CE235	TAD722VE	315	2300	154	110.2	1050	1700	87.7	EM
CE216	TAD722VE	289	2100	151	101.3	1050	1700	87.7	EM
CE135	BF6M1013C	177	2100	99	61.9	713	1400	49.1	EM
CE140	BF6M1013C	182	2200	99	63.8	713	1400	49.1	EM
CE139/1	BF6M1013C	182	2000	103	63.8	755	1400	52.0	EM
CE143/2	BF6M1013C	188	2100	104	65.7	755	1400	52.0	EM
CE146/1	BF6M1013C	192	2000	108	67.1	797	1400	54.8	EM
CE148/3	BF6M1013C	193	2200	105	67.5	755	1400	52.0	EM
CE151/3	BF6M1013C	198	2100	110	69.4	797	1400	54.8	EM
CE156/3	BF6M1013C	204	2200	111	71.3	797	1400	54.8	EM
CE144/1	BF6M1013C	205	2300	100	71.8	713	1400	49.1	EM
CE153	BF6M1013C	198	2300	106	69.4	755	1400	52.0	EM
CE161/1	BF6M1013C	209	2300	112	73.2	797	1400	54.8	EM
CE147	BF6M1013CP	192	2000	110	67.1	784	1600	61.7	EM
CE155/1	BF6M1013CP	202	2000	116	70.8	830	1600	65.3	EM
CE163	BF6M1013CP	213	2000	122	74.6	877	1600	69.0	EM
CE151/4	BF6M1013CP	196	2100	110	68.5	784	1600	61.7	EM
CE161/2	BF6M1013CP	208	2300	111	72.7	784	1600	61.7	EM
CE161/3	BF6M1013CP	209	2100	118	73.2	830	1600	65.3	EM
CE169	BF6M1013CP	220	2100	124	76.9	877	1600	69.0	EM
CE171	BF6M1013CP	221	2300	118	77.4	830	1600	65.3	EM
CE166/2	BF6M1013CP	222	2200	120	77.9	830	1600	65.3	EM

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Manufacturer: DEUTZ AG  
Engine Category: Nonroad CI  
EPA Family Name: 3DZX107.1034  
Mfr. Family Name: BF6M1013C  
Process Code: New Submission

### ENGINE MODEL SUMMARY FORM

U-10-013-00 8F

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)
CE175/2	BF6M1013CP	228	2200	123	79.7	877	128	69.0	EM
CE181	BF6M1013CP	235	2300	125	82.1	877	128	69.0	EM
CE112/1	BF4M1013C	150	2300	110	52.5	540	116	37.2	EM
CE104	BF4M1013C	139	2300	102	48.8	512	110	35.2	EM
CE99/1	BF4M1013C	133	2300	97	46.4	483	104	33.2	EM
CE108	BF4M1013C	145	2200	110	50.7	540	116	37.2	EM
CE101/1	BF4M1013C	135	2200	103	47.4	512	110	35.2	EM
CE96/2	BF4M1013C	129	2200	98	45.0	483	104	33.2	EM
CE104/1	BF4M1013C	139	2100	111	48.8	540	116	37.2	EM
CE99/3	BF4M1013C	133	2100	106	46.4	512	110	35.2	EM
CE94	BF4M1013C	126	2100	101	44.1	483	104	33.2	EM
CE101/2	BF4M1013C	135	2000	114	47.4	540	116	37.2	EM
CE96/1	BF4M1013C	129	2000	108	45.0	512	110	35.2	EM
CE90	BF4M1013C	121	2000	101	42.2	483	104	33.2	EM
CE95	BF4M1013EC	127	2300	93	44.6	491	106	33.8	EM
CE86/1	BF4M1013EC	115	2300	84	40.3	491	106	33.8	EM
CE88	BF4M1013EC	118	2200	90	41.3	491	106	33.8	EM
CE86/2	BF4M1013EC	115	2000	97	40.3	491	106	33.8	EM
CE93	BF4M1013C	125	2300	91	43.6	491	106	33.8	EM
CE84	BF4M1013C	113	2300	82	39.4	491	106	33.8	EM
CE86	BF4M1013C	115	2200	88	40.3	491	106	33.8	EM
CE137	BF6M1013EC	184	2300	89	64.3	727	105	50.0	EM
CE129	BF6M1013EC	173	2300	84	60.5	727	105	50.0	EM
CE129/1	BF6M1013EC	173	2200	88	60.5	727	105	50.0	EM
CE129/2	BF6M1013EC	173	2100	92	60.5	727	105	50.0	EM
CE125	BF6M1013EC	168	2000	94	58.6	727	105	50.0	EM
CE137	BF6M1013C	184	2300	89	64.3	727	105	50.0	EM
CE122/1	BF6M1013C	163	2300	80	57.2	727	105	50.0	EM
CE125	BF6M1013C	168	2200	85	58.6	727	105	50.0	EM
CE126	BF6M1013C	169	2100	90	59.1	727	105	50.0	EM
CE110	BF6M1013C	147	2100	79	51.6	727	105	50.0	EM
CE122	BF6M1013C	163	2000	92	57.2	727	105	50.0	EM

EM *DAI, SPC, TC, etc*

11 08 11

Manufacturer: DEUTZ AG  
Engine Category: Nonroad CI  
EPA Family Name: 3DZXL07.1034  
Mfr. Family Name: BF6M1013C  
Process Code: New Submission

### ENGINE MODEL SUMMARY FORM

4-2-013-028-8

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)
DE163	TAD720GE	218 1800	136	76.4	N/A N/A	N/A	N/A	EM P01, SP4, TC CAT