



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	4DZXL15.9002	11.9, 15.9	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Smoke Puff Limiter, Turbocharger, Charge Air Cooler			Pump, Compressor, 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
225 ≤ kW < 450	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	20	15	50
450 ≤ kW ≤ 560	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	20	15	50
		CERT	-	-	5.4	1.5	0.14	18	6	27

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

Manufacturer: DEUTZ AG
 Engine Category: Nonroad CI
 EPA Family Name: 4DZXL15.9002
 Mfr. Family Name: BF6M1015C
 Process Code: New Submission

ENGINE MODEL SUMMARY FORM

Attachment 1 of 4
 UR 013-0125

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 ² /stroke)	8. Fuel Rate (lbs./hr) @ Peak Torque	9. Emission Control Device (SAE J1930)
CE228	BF6M1015C	228 306	206	106.9	1582	1200	93.3	EMDDF, SPL, TCS
CE228/1	BF6M1015C	1800	182	106.9	1524	1200	89.9	EM
CE240	BF6M1015C	2300	171	112.6	1395	1200	82.3	EM
CE240/1	BF6M1015C	2100	175	112.6	1472	1200	86.8	EM
CE240/2	BF6M1015C	1900	182	112.6	1508	1300	96.4	EM
CE242	BF6M1015C	324	179	113.5	1618	1200	95.4	EM
CE248	BF6M1015C	332	194	116.3	1658	1200	97.8	EM
CE259	BF6M1015C	347	204	121.5	1731	1200	102.1	EM
CE261	BF6M1015C	350	188	122.4	1721	1200	101.5	EM
CE261/1	BF6M1015C	350	189	122.4	1748	1200	103.1	EM
CE261/3	BF6M1015C	350	198	122.4	1771	1200	104.5	EM
CE261/5	BF6M1015C	350	185	122.4	1517	1200	89.5	EM
CE261/6	BF6M1015C	350	191	122.5	1745	1200	102.9	EM
CE271	BF6M1015C	363	214	127.1	1812	1200	106.9	EM
CE273	BF6M1015C	366	194	128.0	1800	1200	106.2	EM
CE273/1	BF6M1015C	366	203	128.0	1825	1200	107.6	EM
CE273/2	BF6M1015C	366	208	128.0	1852	1200	109.2	EM
CE280	BF6M1015C	375	204	131.3	1872	1200	110.4	EM
CE285	BF6M1015C	382	225	133.7	1905	1200	112.4	EM
CE286	BF6M1015C	383	206	134.1	1886	1200	111.2	EM
CE286/1	BF6M1015C	383	214	134.1	1912	1200	112.8	EM
CE286/2	BF6M1015C	383	220	134.1	1941	1200	114.5	EM
CE298	BF6M1015C	399	280	139.7	2006	1200	118.3	EM
CE300	BF6M1015C	402	220	140.7	1978	1200	116.7	EM
CE300/1	BF6M1015C	402	225	140.7	2006	1200	118.3	EM
CE300/2	BF6M1015C	402	231	140.7	2036	1200	120.1	EM
D250	BF6M1015C	335	228	117.3	N/A	N/A	N/A	EM
D271/1	BF6M1015C	363	210	127.1	N/A	N/A	N/A	EM
D285	BF6M1015C	382	261	133.7	N/A	N/A	N/A	EM
D310/1	BF6M1015C	415	243	145.3	N/A	N/A	N/A	EM
D314	BF6M1015C	421	292	147.4	N/A	N/A	N/A	EM
D321	BF6M1015C	430	257	150.5	N/A	N/A	N/A	EM
D341/1	BF6M1015C	457	273	160.0	N/A	N/A	N/A	EM
D345	BF6M1015C	462	321	161.7	N/A	N/A	N/A	EM

ENGINE MODEL SUMMARY FORM

Manufacturer: DEUTZ AG
 Engine Category: Nonroad CI
 EPA Family Name: 4DZXL15.9002
 Mfr. Family Name: BF6M1015C
 Process Code: New Submission

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 UYR-013-0125

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)
CE261/4	BF6M1015CP	350 2100	189	122.5	1601	227	102.3	EM ^{PMF, T_c, cAc, cAc²}
CE272	BF6M1015CP	364 1800	219	127.4	1688	241	99.6	EM
CE273/5	BF6M1015CP	366 2100	200	128.1	1674	240	107.0	EM
CE285/1	BF6M1015CP	382 1800	228	133.7	1769	256	104.3	EM
CE286/4	BF6M1015CP	383 2100	210	134.1	1752	251	111.9	EM
CE287	BF6M1015CP	385 2100	210	134.8	1631	231	104.2	EM
CE287/1	BF6M1015CP	385 1900	224	134.8	1731	246	102.1	EM
CE300/5	BF6M1015CP	402 2100	219	140.7	1705	242	108.9	EM
CE300/6	BF6M1015CP	402 2100	219	140.7	1841	261	117.6	EM
CE300/7	BF6M1015CP	402 1900	237	140.7	1809	259	106.7	EM
CE300/8	BF6M1015CP	402 1800	241	140.7	1862	272	109.8	EM
CE313	BF6M1015CP	419 1800	255	146.7	1943	280	114.6	EM
CE314/1	BF6M1015CP	421 2100	231	147.4	1785	254	114.1	EM
CE314/3	BF6M1015CP	421 1900	246	147.4	1894	270	111.7	EM
CE330/2	BF6M1015CP	442 2100	248	154.7	1876	268	119.9	EM
CE330/4	BF6M1015CP	442 1900	264	154.7	1990	283	117.4	EM
D303	BF6M1015CP	406 1500	279	142.1	N/A	N/A	N/A	EM
D320/1	BF6M1015CP	429 1800	256	150.2	N/A	N/A	N/A	EM
D338	BF6M1015CP	453 1500	312	158.6	N/A	N/A	N/A	EM
D351/1	BF6M1015CP	470 1800	284	164.5	N/A	N/A	N/A	EM
D365	BF6M1015CP	489 1500	350	171.2	N/A	N/A	N/A	EM
D384/1	BF6M1015CP	515 1800	316	180.3	N/A	N/A	N/A	EM
CE290	BF8M1015C	389 1900	168	136.2	1866	197	119.2	EM
CE320	BF8M1015C	429 2000	177	150.2	2050	216	131.0	EM
CE330	BF8M1015C	442 1800	196	154.7	2206	235	130.1	EM
CE345	BF8M1015C	462 1800	203	161.7	2306	248	136.0	EM
CE348	BF8M1015C	466 2100	191	163.1	2295	240	135.4	EM
CE348/1	BF8M1015C	466 2000	193	163.1	2326	245	137.2	EM
CE348/2	BF8M1015C	466 1900	205	163.1	2361	251	139.3	EM
CE362	BF8M1015C	485 1800	215	169.8	2420	260	142.7	EM
CE364	BF8M1015C	488 2100	201	170.8	2400	251	141.6	EM
CE364/1	BF8M1015C	488 2000	201	170.8	2433	258	143.5	EM
CE364/2	BF8M1015C	488 1900	211	170.8	2470	264	145.7	EM
CE370	BF8M1015C	496 2000	202	173.6	2473	266	145.9	EM

Manufacturer: DEUTZ AG
 Engine Category: Nonroad CI
 EPA Family Name: 4DZXL15.9002
 Mfr. Family Name: BF8M1015C
 Process Code: New Submission

ENGINE MODEL SUMMARY FORM

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4-20-0125

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 ² /stroke)	8. Fuel Rate (lbs./hr) @ Peak Torque	9. Emission Control Device (SAE J1930)
CE370/1	BF8M1015C	496 2100	203	173.6	2439	198	143.9	EM
CE380	BF8M1015C	509 1800	228	178.2	2540	271	149.8	EM
CE381	BF8M1015C	511 2100	210	178.9	2512	268	148.2	EM
CE381/1	BF8M1015C	511 2000	211	178.9	2547	269	150.2	EM
CE381/2	BF8M1015C	511 1900	221	178.9	2585	281	152.5	EM
CE385	BF8M1015C	516 2100	212	180.6	2539	270	149.8	EM
CE400	BF8M1015C	536 2100	221	187.6	2640	278	155.7	EM
CE400/1	BF8M1015C	536 2000	226	187.6	2674	280	157.7	EM
CE400/2	BF8M1015C	536 1900	234	187.6	2714	291	160.1	EM
D333	BF8M1015C	446 1500	228	156.1	N/A	N/A	N/A	EM
D362/1	BF8M1015C	485 1800	216	169.8	N/A	N/A	N/A	EM
D380	BF8M1015C	509 1500	262	178.2	N/A	N/A	N/A	EM
D413/1	BF8M1015C	553 1800	253	193.6	N/A	N/A	N/A	EM
D418	BF8M1015C	560 1500	291	196.0	N/A	N/A	N/A	EM
D454/1	BF8M1015C	608 1800	277	212.8	N/A	N/A	N/A	EM
CE348/4	BF8M1015CP	466 2100	191	163.1	2137	231	136.5	EM
CE364/3	BF8M1015CP	488 1800	220	170.8	2259	244	133.2	EM
CE364/4	BF8M1015CP	488 2100	202	170.8	2232	244	142.6	EM
CE381/3	BF8M1015CP	511 2100	210	178.9	2338	256	149.4	EM
CE382	BF8M1015CP	512 1800	231	179.2	2371	259	139.8	EM
CE383	BF8M1015CP	513 2100	211	179.6	2177	235	139.1	EM
CE383/1	BF8M1015CP	513 1900	228	179.6	2310	250	136.2	EM
CE400/5	BF8M1015CP	513 2100	221	179.6	2274	247	145.3	EM
CE400/6	BF8M1015CP	536 2100	221	187.6	2455	264	156.9	EM
CE400/7	BF8M1015CP	536 1900	240	187.6	2412	262	142.3	EM
CE400/8	BF8M1015CP	536 1800	244	187.6	2482	275	146.4	EM
CE418	BF8M1015CP	560 1800	258	196.0	2595	283	153.1	EM
CE419	BF8M1015CP	561 2100	232	196.4	2382	258	152.2	EM
CE419/1	BF8M1015CP	561 1900	248	196.4	2527	273	149.0	EM
CE440	BF8M1015CP	590 2100	248	206.5	2500	272	159.7	EM
CE440/1	BF8M1015CP	590 1900	267	206.5	2650	289	156.3	EM
CE440/2	BF8M1015CP	590 2150	251	206.5	2500	272	159.7	EM
CE470	BF8M1015CP	630 1900	277	220.5	2670	291	170.6	EM
CE470/1	BF8M1015CP	630 2100	269	220.5	2500	272	159.7	EM

ENGINE MODEL SUMMARY FORM

Manufacturer: DEUTZ AG
 Engine Category: Nonroad CI
 EPA Family Name: 4DZXL15.9002
 Mfr. Family Name: BF6M1015C
 Process Code: New Submission

4-7-4

U-RC-213-0125

1. Engine Code	2. Engine Model	3. BHP@ <small>(kW)</small>	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)
D399	BF8M1015CP	535	1500	285	187.3	N/A	N/A	N/A	EM DP, TC, CAT, SP
D426/1	BF8M1015CP	571	1800	260	199.9	N/A	N/A	N/A	EM
D448	BF8M1015CP	600	1500	315	210.0	N/A	N/A	N/A	EM
D473/1	BF8M1015CP	634	1800	288	221.9	N/A	N/A	N/A	EM
D490	BF8M1015CP	657	1500	352	230.0	N/A	N/A	N/A	EM
D517/1	BF8M1015CP	517693	1800	320	242.6	N/A	N/A	N/A	EM
CE330/5	BF6M1015CP	442	2100	252	154.7	1827	1300	265	EM