

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	3DZX15.9002	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	-	-	5.5	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 9TH day of December 2002.


 Allen Lyons, Chief
 Mobile Source Operations Division

Attachment 1 of 4

Manufacturer: DEUTZ AG
 Engine Category: Nonroad CI
 EPA Family Name: 3DZXL15.9002
 Mfr. Family Name: BF6M1015C
 Process Code: New Submission

ENGINE MODEL SUMMARY FORM

4-1-013-0056

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)
CE228	BF6M1015C	306 1500	206	106.9	1582 1200	235	93.3	EM <i>DPF, SCR, Tc, AC</i>
CE228/1	BF6M1015C	306 1800	182	106.9	1524 1200	238	89.9	EM
CE240	BF6M1015C	322 2300	171	112.6	1395 1200	194	82.3	EM
CE240/1	BF6M1015C	322 2100	175	112.6	1472 1200	210	86.8	EM
CE240/2	BF6M1015C	322 1900	182	112.6	1508 1300	209	96.4	EM
CE242	BF6M1015C	324 2050	179	113.5	1618 1200	230	95.4	EM
CE248	BF6M1015C	332 1800	194	116.3	1658 1200	232	97.8	EM
CE259	BF6M1015C	347 1800	204	121.5	1731 1200	243	102.1	EM
CE261	BF6M1015C	350 2100	188	122.4	1721 1200	242	101.5	EM
CE261/1	BF6M1015C	350 2050	189	122.4	1748 1200	248	103.1	EM
CE261/3	BF6M1015C	350 1900	198	122.4	1771 1200	249	104.5	EM
CE261/5	BF6M1015C	350 2300	185	122.4	1517 1200	213	89.5	EM
CE261/6	BF6M1015C	350 2000	191	122.5	1745 1200	244	102.9	EM
CE271	BF6M1015C	363 1800	214	127.1	1812 1200	253	106.9	EM
CE273	BF6M1015C	366 2100	194	128.0	1800 1200	252	106.2	EM
CE273/1	BF6M1015C	366 2000	203	128.0	1825 1200	258	107.6	EM
CE273/2	BF6M1015C	366 1900	208	128.0	1852 1200	259	109.2	EM
CE280	BF6M1015C	375 2050	204	131.3	1872 1200	264	110.4	EM
CE285	BF6M1015C	382 1800	225	133.7	1905 1200	266	112.4	EM
CE286	BF6M1015C	383 2100	206	134.1	1886 1200	267	111.2	EM
CE286/1	BF6M1015C	383 2000	214	134.1	1912 1200	269	112.8	EM
CE286/2	BF6M1015C	383 1900	220	134.1	1941 1200	272	114.5	EM
CE298	BF6M1015C	399 1500	280	139.7	2006 1200	282	118.3	EM
CE300	BF6M1015C	402 2100	220	140.7	1978 1200	278	116.7	EM
CE300/1	BF6M1015C	402 2000	225	140.7	2006 1200	282	118.3	EM
CE300/2	BF6M1015C	402 1900	231	140.7	2036 1200	286	120.1	EM
D250	BF6M1015C	335 1500	228	117.3	N/A	N/A	N/A	EM
D271/1	BF6M1015C	363 1800	210	127.1	N/A	N/A	N/A	EM
D285	BF6M1015C	382 1500	261	133.7	N/A	N/A	N/A	EM
D310/1	BF6M1015C	415 1800	243	145.3	N/A	N/A	N/A	EM
D314	BF6M1015C	421 1500	292	147.4	N/A	N/A	N/A	EM
D321	BF6M1015C	430 1800	257	150.5	N/A	N/A	N/A	EM

2 of 4

Manufacturer: DEUTZAG
 Engine Category: Nonroad CI
 EPA Family Name: 3DZX15.9002
 Mfr. Family Name: BF6M1015C
 Process Code: New Submission

ENGINE MODEL SUMMARY FORM

U-12-013-00826

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)
D341/1	BF6M1015C	457	1800	273	160.0	N/A	N/A	N/A	EM <i>Doc, SFL, T5, etc</i>
D345	BF6M1015C	462	1500	321	161.7	N/A	N/A	N/A	EM
CE261/4	BF6M1015CP	350	2100	189	122.5	1601	1300	102.3	EM
CE272	BF6M1015CP	364	1800	219	127.4	1688	1200	99.6	EM
CE273/5	BF6M1015CP	366	2100	200	128.1	1674	1300	107.0	EM
CE285/1	BF6M1015CP	382	1800	228	133.7	1769	1200	104.3	EM
CE286/4	BF6M1015CP	383	2100	210	134.1	1752	1300	111.9	EM
CE287	BF6M1015CP	385	2100	210	134.8	1631	1300	104.2	EM
CE287/1	BF6M1015CP	385	1900	224	134.8	1731	1200	102.1	EM
CE300/5	BF6M1015CP	402	2100	219	140.7	1705	1300	108.9	EM
CE300/6	BF6M1015CP	402	2100	219	140.7	1841	1300	117.6	EM
CE300/7	BF6M1015CP	402	1900	237	140.7	1809	1200	259	EM
CE300/8	BF6M1015CP	402	1800	241	140.7	1862	1200	272	EM
CE313	BF6M1015CP	419	1800	255	146.7	1943	1200	280	EM
CE314/1	BF6M1015CP	421	2100	231	147.4	1785	1300	254	EM
CE314/3	BF6M1015CP	421	1900	246	147.4	1894	1200	270	EM
CE330/2	BF6M1015CP	442	2100	248	154.7	1876	1300	268	EM
CE330/4	BF6M1015CP	442	1900	264	154.7	1990	1200	283	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	BF6M1015C	389	1900	168	136.2	1866	1300	197	EM
CE320	BF6M1015C	429	2000	177	150.2	2050	1300	216	EM
CE330	BF6M1015C	442	1800	196	154.7	2206	1200	235	EM
CE345	BF6M1015C	462	1800	203	161.7	2306	1200	248	EM
CE348	BF6M1015C	466	2100	191	163.1	2295	1200	240	EM
CE348/1	BF6M1015C	466	2000	193	163.1	2326	1200	245	EM
CE348/2	BF6M1015C	466	1900	205	163.1	2361	1200	251	EM
CE362	BF6M1015C	485	1800	215	169.8	2420	1200	260	EM

3 of 4

4-R-013-0086

Manufacturer: DEUTZ AG
Engine Category: Nonroad CI
EPA Family Name: 3DZXL15.9002
Mfr. Family Name: BF6M1015C
Process Code: New Submission

ENGINE MODEL SUMMARY FORM

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)
CE364	BF8M1015C	488	2100	201	170.8	2400	251	141.6	EM PDF, SAE, TCS, CA-C
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
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	293	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

4-24

Manufacturer: DEUTZ AG
 Engine Category: Nonroad CI
 EPA Family Name: 3DZX15.9002
 Mfr. Family Name: BF6M1015C
 Process Code: New Submission

ENGINE MODEL SUMMARY FORM

4-12-013-0086

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)
CE419/1	BF8M1015CP	561	1900	248	196.4	2527	273	149.0	EM, PM, SA, TC, CHC
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
D399	BF8M1015CP	535	1500	285	187.3	N/A	N/A	N/A	EM
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	693	1800	320	242.6	N/A	N/A	N/A	EM

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