



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 | 322 | 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 |

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

ENGINE MODEL SUMMARY FORM

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 UYR013-0125

| 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, cAc, cAc} |
| 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 |