



ESW CleanTech Phoenix®
CARB Verified Engine Family List
Executive Order DE-13-004
VDEC Family Name CA/ECT/2009/PM3+/N00/OF/DPF01

| Model Year | Manufacturer | Engine Family | Displacement (L) | |
|------------|----------------------------|---------------|------------------|---|
| 1996 | Case | TX9505R6DTRA | 8.3 | * |
| 1996 | Case | TX9505R6DTRB | 8.3 | * |
| 1996 | Case | TX9505R6DTRC | 8.3 | * |
| 1996 | Caterpillar | TCP10.RZDBRD | 10.5 | * |
| 1996 | Caterpillar | TCP10.RZDBRF | 10.5 | * |
| 1996 | Caterpillar | TCP10.RZDBRK | 10.3 | * |
| 1996 | Caterpillar | TCP12.RZDBRM | 12.0 | * |
| 1996 | Caterpillar | TCP6.6RZDBRB | 6.6 | * |
| 1996 | Caterpillar | TCP6.6RZDBRC | 6.6 | * |
| 1996 | Caterpillar | TCP7.2RZDBRB | 7.2 | * |
| 1996 | Caterpillar | TCP7.2RZDBRC | 7.2 | * |
| 1996 | Caterpillar | TCP7.2RZDBRK | 7.2 | * |
| 1996 | Cummins | TCE359R6DTRA | 5.9 | * |
| 1996 | Cummins | TCE505R6DTRA | 8.3 | * |
| 1996 | Cummins | TCE505R6DTRB | 8.3 | * |
| 1996 | Cummins | TCE505R6DTRC | 8.3 | * |
| 1996 | Cummins | TCE505R6DTRD | 8.3 | * |
| 1996 | Cummins | TCE661RGDTRA | 10.8 | * |
| 1996 | Deere | TJD10.R6DBRA | 10.1 | * |
| 1996 | Deere | TJD10.R6DBRB | 10.1 | * |
| 1996 | Deere | TJD10.RJDBRA | 10.5 | * |
| 1996 | Deere | TJD10.RJDBRB | 10.5 | * |
| 1996 | Deere | TJD6.8R6DBRC | 6.8 | * |
| 1996 | Deere | TJD6.8R6DBRD | 6.8 | * |
| 1996 | Deere | TJD7.6R6DBRA | 7.6 | * |
| 1996 | Deere | TJD7.6R6DBRB | 7.6 | * |
| 1996 | Deere | TJD8.1R6DBRA | 8.1 | * |
| 1996 | Deere | TJD8.1R6DBRB | 8.1 | * |
| 1996 | Deere | TJD8.1R6DBRC | 8.1 | * |
| 1996 | Detroit Diesel Corporation | TDD11.TJDARE | 11.1 | * |
| 1996 | Detroit Diesel Corporation | TDD8.5TJDARE | 8.5 | * |
| 1996 | Deutz | TDZ7.1R6DARA | 7.1 | * |
| 1996 | Deutz | TDZ7.1R6DARB | 7.1 | * |
| 1996 | International | TNV466R6DARA | 7.6 | * |
| 1996 | International | TNV466R6DARB | 7.6 | * |
| 1996 | International | TNV466R6DASC | 7.6 | * |
| 1996 | International | TNV466R6DASD | 7.6 | * |
| 1996 | International | TNV530R6DARA | 8.7 | * |
| 1996 | International | TNV530R6DARB | 8.7 | * |
| 1996 | International | TNV530R6DASC | 8.7 | * |
| 1996 | International | TNV530R6DASD | 8.7 | * |
| 1996 | International | TNV530R8DASE | 8.7 | * |

¹ Do not remove Original Equipment DOC, install BP sensor upstream and Phoenix downstream

| Model Year | Manufacturer | Engine Family | Displacement (L) | |
|------------|------------------------------|---------------|------------------|-----|
| 1996 | Iveco | TVE7.7R6DARA | 7.7 | * |
| 1996 | Iveco | TVE9.5R6DARA | 9.5 | * |
| 1996 | Iveco | TVE9.5R6DASA | 9.5 | * |
| 1996 | Komatsu | TKL11.RZDARA | 11.0 | * |
| 1996 | Komatsu | TKL11.RZDARB | 11.0 | * |
| 1996 | Komatsu | TKL11.RZDARC | 11.0 | * |
| 1996 | Komatsu Dresser | TKD505R6DTRA | 8.3 | * |
| 1996 | Komatsu Dresser | TKD505R6DTRC | 8.3 | * |
| 1996 | Liebherr Machines Bulle SA | TLH9.9R6DARA | 10.0 | 6.6 |
| 1996 | Liebherr Machines Bulle SA | TLH9.9R6DASA | 10.0 | 6.6 |
| 1996 | Mercedes-Benz | TMB13.R6DARA | 9.6 | * |
| 1996 | Mercedes-Benz | TMB15.R6DARA | 11.0 | * |
| 1996 | Mercedes-Benz | TMB22.R6DARA | 11.0 | * |
| 1996 | Mitsubishi Motors | TMT460D6DARA | 7.5 | * |
| 1996 | Mitsubishi Motors | TMT729E6DARC | 11.9 | * |
| 1996 | New Holland | TNH7.5R6DARA | 7.5 | * |
| 1996 | Volvo Construction Equipment | TVS12.R6DARA | 12.0 | * |
| 1996 | Volvo Construction Equipment | TVS6.7R6DARA | 6.7 | * |
| 1996 | Volvo Construction Equipment | TVS9.6R6DARA | 9.6 | * |
| 1997 | AB Volvo Penta | VVP12.R6DARA | 12.0 | * |
| 1997 | AB Volvo Penta | VVP5.5R6DARA | 5.5 | * |
| 1997 | AB Volvo Penta | VVP6.7R6DARA | 6.7 | * |
| 1997 | AB Volvo Penta | VVP6.7R6DASA | 6.7 | * |
| 1997 | AB Volvo Penta | VVP9.6R6DASA | 9.6 | * |
| 1997 | Case | VX9505R6DTRA | 8.3 | * |
| 1997 | Case | VX9505R6DTRB | 8.3 | * |
| 1997 | Case | VX9505R6DTRC | 8.3 | * |
| 1997 | Caterpillar | VCP10.RZDARD | 10.5 | * |
| 1997 | Caterpillar | VCP10.RZDARG | 10.5 | * |
| 1997 | Caterpillar | VCP10.RZDARK | 10.3 | * |
| 1997 | Caterpillar | VCP12.RZDARM | 12.0 | * |
| 1997 | Caterpillar | VCP442DZDARK | 7.2 | * |
| 1997 | Caterpillar | VCP6.6RZDARC | 6.6 | * |
| 1997 | Caterpillar | VCP7.0RZDARB | 7.0 | * |
| 1997 | Caterpillar | VCP7.2RZDARB | 7.2 | * |
| 1997 | Caterpillar | VCP7.2RZDARC | 7.2 | * |
| 1997 | Caterpillar | VCP7.2RZDARK | 7.2 | * |
| 1997 | Cummins | VCE359R6DTRB | 5.9 | * |
| 1997 | Cummins | VCE505R6DTRB | 8.3 | * |
| 1997 | Cummins | VCE505R6DTRC | 8.3 | * |
| 1997 | Cummins | VCE505R6DTRD | 8.3 | * |
| 1997 | Cummins | VCE661RGDTRA | 10.8 | * |
| 1997 | Daewoo | VDW11.R6DARA | 11.0 | * |
| 1997 | DaimlerChrysler | VMB13.R6DARA | 9.6 | * |
| 1997 | DaimlerChrysler | VMB15.R6DARA | 11.0 | * |
| 1997 | DaimlerChrysler | VMB22.R6DARA | 11.0 | * |
| 1997 | Deere | VJD10.R6DBRA | 10.1 | * |
| 1997 | Deere | VJD10.R6DBRB | 10.1 | * |

¹ Do not remove Original Equipment DOC, install BP sensor upstream and Phoenix downstream

| Model Year | Manufacturer | Engine Family | Displacement (L) | |
|------------|------------------------------|---------------|------------------|-----|
| 1997 | Deere | VJD10.RJDBRA | 10.5 | * |
| 1997 | Deere | VJD10.RJDBRB | 10.1 | * |
| 1997 | Deere | VJD6.8R6DBRA | 6.8 | 4.5 |
| 1997 | Deere | VJD6.8R6DBRB | 6.8 | * |
| 1997 | Deere | VJD6.8R6DBRC | 6.8 | 4.5 |
| 1997 | Deere | VJD6.8R6DBRD | 6.8 | 4.5 |
| 1997 | Deere | VJD7.6R6DBRA | 7.6 | * |
| 1997 | Deere | VJD7.6R6DBRB | 7.6 | * |
| 1997 | Deere | VJD8.1R6DBRA | 8.1 | * |
| 1997 | Deere | VJD8.1R6DBRB | 8.1 | * |
| 1997 | Deere | VJD8.1R6DBRC | 8.1 | * |
| 1997 | Detroit Diesel Corporation | VDD11.TJDARE | 11.1 | * |
| 1997 | Detroit Diesel Corporation | VDD8.5TJDARE | 8.5 | * |
| 1997 | Deutz | VDZ7.1R6DARA | 7.2 | * |
| 1997 | Deutz | VDZ7.1R6DARB | 7.2 | * |
| 1997 | International | VNV466R6DASC | 7.6 | * |
| 1997 | International | VNV466R6DASD | 7.6 | * |
| 1997 | International | VNV530R6DARA | 8.7 | 7.6 |
| 1997 | International | VNV530R6DARB | 8.7 | 7.6 |
| 1997 | International | VNV530R6DASC | 8.7 | * |
| 1997 | International | VNV530R6DASD | 8.7 | * |
| 1997 | International | VNV530R8DARA | 8.7 | * |
| 1997 | International | VNV530R8DASC | 8.7 | * |
| 1997 | International | VNV530R8DASE | 8.7 | * |
| 1997 | Isuzu | VSZ9.8R6DARB | 9.8 | * |
| 1997 | Iveco | VVE7.7R6DARA | 7.7 | * |
| 1997 | Iveco | VVE9.5R6DARA | 9.5 | * |
| 1997 | Iveco | VVE9.5R6DASA | 9.5 | * |
| 1997 | Komatsu | VKD505R6DTRA | 8.3 | * |
| 1997 | Komatsu | VKD505R6DTRC | 8.3 | * |
| 1997 | Liebherr Machines Bulle SA | VLH9.9R6DARA | 10.0 | 6.6 |
| 1997 | Liebherr Machines Bulle SA | VLH9.9R6DASA | 10.0 | 6.6 |
| 1997 | Mitsubishi Motors | VMT460R6DARA | 7.5 | * |
| 1997 | Mitsubishi Motors | VMT729R6DARC | 11.9 | * |
| 1997 | New Holland | VNH7.5R6DARA | 7.5 | * |
| 1997 | Volvo Construction Equipment | VVS12.R6DARA | 12.0 | * |
| 1997 | Volvo Construction Equipment | VVS6.7R6DARA | 6.7 | * |
| 1997 | Volvo Construction Equipment | VVS9.6R6DARA | 9.6 | * |
| 1998 | AB Volvo Penta | WVPXL05.5AAA | 5.5 | * |
| 1998 | AB Volvo Penta | WVPXL05.5ABA | 5.5 | * |
| 1998 | AB Volvo Penta | WVPXL06.7AAA | 6.7 | * |
| 1998 | AB Volvo Penta | WVPXL06.7ABA | 6.7 | * |
| 1998 | AB Volvo Penta | WVPXL09.6AAA | 9.6 | * |
| 1998 | AB Volvo Penta | WVPXL09.6ABA | 9.6 | * |
| 1998 | AB Volvo Penta | WVPXL09.6ACB | 9.6 | * |
| 1998 | AB Volvo Penta | WVPXL12.0ABA | 12.0 | * |
| 1998 | Case | WX9XL0239ABA | 3.9 | * |
| 1998 | Case | WX9XL0239ACA | 3.9 | * |

¹ Do not remove Original Equipment DOC, install BP sensor upstream and Phoenix downstream

| Model Year | Manufacturer | Engine Family | Displacement (L) | |
|------------|----------------------------|---------------|------------------|-----|
| 1998 | Case | WX9XL0359AAA | 5.9 | * |
| 1998 | Case | WX9XL0359ABA | 5.9 | * |
| 1998 | Case | WX9XL0505AAA | 8.3 | * |
| 1998 | Case | WX9XL0505ABA | 8.3 | * |
| 1998 | Case | WX9XL0505ABB | 8.3 | * |
| 1998 | Case | WX9XL0505ABC | 8.3 | * |
| 1998 | Case | WX9XL0505ACA | 8.3 | * |
| 1998 | Caterpillar | WCPXL06.6MRB | 6.6 | * |
| 1998 | Caterpillar | WCPXL06.6MRC | 6.6 | * |
| 1998 | Caterpillar | WCPXL07.0MRB | 7.0 | * |
| 1998 | Caterpillar | WCPXL07.2HRK | 7.2 | * |
| 1998 | Caterpillar | WCPXL07.2MRB | 7.2 | * |
| 1998 | Caterpillar | WCPXL07.2MRC | 7.2 | * |
| 1998 | Caterpillar | WCPXL10.3ERK | 10.3 | * |
| 1998 | Caterpillar | WCPXL10.5MRD | 10.5 | * |
| 1998 | Caterpillar | WCPXL10.5MRG | 10.5 | * |
| 1998 | Caterpillar | WCPXL12.0ERM | 12.0 | * |
| 1998 | Cummins | WCEXL0359AAA | 5.9 | * |
| 1998 | Cummins | WCEXL0359ABA | 5.9 | * |
| 1998 | Cummins | WCEXL0359ABB | 5.9 | * |
| 1998 | Cummins | WCEXL0505AAA | 8.3 | * |
| 1998 | Cummins | WCEXL0505ABA | 8.3 | * |
| 1998 | Cummins | WCEXL0505ABB | 8.3 | * |
| 1998 | Cummins | WCEXL0505ABC | 8.3 | * |
| 1998 | Cummins | WCEXL0505ACA | 8.3 | * |
| 1998 | Cummins | WCEXL0661AAA | 10.8 | * |
| 1998 | Daewoo | WDWXL11.1AHT | 11.0 | * |
| 1998 | Daewoo | WDWXL11.1BHT | 11.1 | * |
| 1998 | Daewoo | WDWXL11.1BIA | 11.1 | * |
| 1998 | Daimler-Benz | WMBXL6.37DJA | 6.4 | * |
| 1998 | Deere | WJDXL06.8012 | 6.8 | 4.5 |
| 1998 | Deere | WJDXL06.8013 | 6.8 | * |
| 1998 | Deere | WJDXL06.8014 | 6.8 | 4.5 |
| 1998 | Deere | WJDXL06.8015 | 6.8 | 4.5 |
| 1998 | Deere | WJDXL07.6010 | 7.6 | * |
| 1998 | Deere | WJDXL07.6011 | 7.6 | * |
| 1998 | Deere | WJDXL08.1007 | 8.1 | * |
| 1998 | Deere | WJDXL08.1008 | 8.1 | * |
| 1998 | Deere | WJDXL08.1009 | 8.1 | * |
| 1998 | Deere | WJDXL10.1005 | 10.1 | * |
| 1998 | Deere | WJDXL10.1006 | 10.1 | * |
| 1998 | Deere | WJDXL10.5003 | 10.5 | * |
| 1998 | Deere | WJDXL10.5004 | 10.5 | * |
| 1998 | Detroit Diesel Corporation | WDDXL08.5TJD | 8.5 | * |
| 1998 | Detroit Diesel Corporation | WDDXL11.1THD | 11.1 | * |
| 1998 | Detroit Diesel Corporation | WMUXL12.0G2V | 12.0 | * |
| 1998 | Deutz | WDZXL07.1003 | 7.1 | 4.8 |
| 1998 | Deutz | WDZXL07.1004 | 7.1 | 4.8 |

¹ Do not remove Original Equipment DOC, install BP sensor upstream and Phoenix downstream

| Model Year | Manufacturer | Engine Family | Displacement (L) | |
|------------|------------------------------|---------------|------------------|-----|
| 1998 | Deutz | WDZXL15.9002 | 11.9 | * |
| 1998 | International | WNVXL0466BNA | 7.8 | * |
| 1998 | International | WNVXL0530ANA | 8.7 | * |
| 1998 | International | WNVXL0530ANB | 8.7 | * |
| 1998 | International | WNVXL0530BNA | 8.8 | 7.8 |
| 1998 | International | WNVXL0530BNB | 8.7 | 7.6 |
| 1998 | International | WNVXL0530BNC | 8.7 | * |
| 1998 | International | WNVXL0530BND | 8.7 | * |
| 1998 | Isuzu | WSZXL09.8DTB | 9.8 | * |
| 1998 | Iveco | WVEXL07.7DAR | 7.7 | * |
| 1998 | Iveco | WVEXL09.5DAR | 9.5 | * |
| 1998 | Iveco | WVEXL09.5DAS | 9.5 | * |
| 1998 | Komatsu | WKLXL11.0DA1 | 11.0 | * |
| 1998 | Komatsu | WKLXL11.0DB1 | 11.0 | * |
| 1998 | Komatsu | WKLXL11.0DC1 | 11.0 | * |
| 1998 | Komatsu | WKLXL7.15CB1 | 7.2 | * |
| 1998 | Komatsu | WKLXL7.15CC1 | 7.2 | * |
| 1998 | Komatsu Dresser | WKDXL0239ABA | 3.9 | * |
| 1998 | Komatsu Dresser | WKDXL0239ACA | 3.9 | * |
| 1998 | Komatsu Dresser | WKDXL0359AAA | 5.9 | * |
| 1998 | Komatsu Dresser | WKDXL0359ABA | 5.9 | * |
| 1998 | Komatsu Dresser | WKDXL0505AAA | 8.3 | * |
| 1998 | Komatsu Dresser | WKDXL0505ABB | 8.3 | * |
| 1998 | Liebherr Machines Bulle SA | WLHAL9.96ARA | 6.6 | 10 |
| 1998 | Liebherr Machines Bulle SA | WLHAL9.96ASA | 6.6 | 10 |
| 1998 | Liebherr Machines Bulle SA | WLHAL9.96ATA | 10.0 | * |
| 1998 | Mercedes-Benz | WMBXL12.9R6A | 10.0 | * |
| 1998 | Mercedes-Benz | WMBXL14.6R6A | 11.0 | * |
| 1998 | Mercedes-Benz | WMBXL21.9R6A | 11.0 | * |
| 1998 | Mercedes-Benz | WMBXL5.96R6B | 6.0 | 4 |
| 1998 | Mitsubishi Motors | WMTXL07.5D6A | 7.5 | * |
| 1998 | New Holland | WNHXL07.5A3V | 7.5 | * |
| 1998 | Volvo Construction Equipment | WVSXL06.7CE1 | 6.7 | * |
| 1998 | Volvo Construction Equipment | WVSXL09.6CE1 | 9.6 | * |
| 1998 | Volvo Construction Equipment | WVSXL12.0CE1 | 12.0 | * |
| 1999 | AB Volvo Penta | XVPXL05.5ABA | 5.5 | * |
| 1999 | AB Volvo Penta | XVPXL06.7AAA | 6.7 | * |
| 1999 | AB Volvo Penta | XVPXL06.7ABA | 6.7 | * |
| 1999 | AB Volvo Penta | XVPXL07.3ABB | 7.3 | * |
| 1999 | AB Volvo Penta | XVPXL07.3ACB | 7.3 | * |
| 1999 | AB Volvo Penta | XVPXL09.6AAA | 9.6 | * |
| 1999 | AB Volvo Penta | XVPXL09.6ABA | 9.6 | * |
| 1999 | AB Volvo Penta | XVPXL09.6ACB | 9.6 | * |
| 1999 | AB Volvo Penta | XVPXL12.0ABA | 12.0 | * |
| 1999 | Case | XX9XL0359ABA | 5.9 | * |
| 1999 | Case | XX9XL0505AAA | 8.3 | * |
| 1999 | Case | XX9XL0505ABA | 8.3 | * |
| 1999 | Case | XX9XL0505ABB | 8.3 | * |

¹ Do not remove Original Equipment DOC, install BP sensor upstream and Phoenix downstream

| Model Year | Manufacturer | Engine Family | Displacement (L) | |
|------------|----------------------------|---------------|------------------|-----|
| 1999 | Case | XX9XL0505ABC | 8.3 | * |
| 1999 | Case | XX9XL0505ACA | 8.3 | * |
| 1999 | Caterpillar | XCPXL06.6MRC | 6.6 | * |
| 1999 | Caterpillar | XCPXL07.0MRB | 7.0 | * |
| 1999 | Caterpillar | XCPXL07.2HRK | 7.2 | * |
| 1999 | Caterpillar | XCPXL07.2MRB | 7.2 | * |
| 1999 | Caterpillar | XCPXL07.2MRC | 7.2 | * |
| 1999 | Caterpillar | XCPXL10.3ERK | 10.3 | * |
| 1999 | Caterpillar | XCPXL10.5MRD | 10.5 | * |
| 1999 | Caterpillar | XCPXL10.5MRF | 10.5 | * |
| 1999 | Caterpillar | XCPXL10.5MRG | 10.5 | * |
| 1999 | Caterpillar | XCPXL12.0ERM | 12.0 | * |
| 1999 | Cummins | XCEXL0359ABA | 5.9 | * |
| 1999 | Cummins | XCEXL0359ABB | 5.9 | * |
| 1999 | Cummins | XCEXL0505AAA | 8.3 | * |
| 1999 | Cummins | XCEXL0505ABA | 8.3 | * |
| 1999 | Cummins | XCEXL0505ABB | 8.3 | * |
| 1999 | Cummins | XCEXL0505ABC | 8.3 | * |
| 1999 | Cummins | XCEXL0505ACA | 8.3 | * |
| 1999 | Cummins | XCEXL0661AAA | 10.8 | * |
| 1999 | Cummins | XCEXL0661AAB | 10.8 | * |
| 1999 | Daewoo | XDWXL11.1BHT | 11.1 | * |
| 1999 | Daewoo | XDWXL11.1BIA | 11.1 | * |
| 1999 | Daimler-Benz | XMBXL12.0RJA | 11.9 | * |
| 1999 | DaimlerChrysler | XMBXL12.9R6A | 10.0 | * |
| 1999 | DaimlerChrysler | XMBXL14.6R6A | 11.0 | * |
| 1999 | DaimlerChrysler | XMBXL21.9R6A | 11.0 | * |
| 1999 | DaimlerChrysler | XMBXL6.37RJA | 6.4 | * |
| 1999 | Deere | XJDXL06.8012 | 6.8 | 4.5 |
| 1999 | Deere | XJDXL06.8013 | 6.8 | * |
| 1999 | Deere | XJDXL06.8014 | 6.8 | 4.5 |
| 1999 | Deere | XJDXL06.8015 | 6.8 | 4.5 |
| 1999 | Deere | XJDXL08.1007 | 8.1 | * |
| 1999 | Deere | XJDXL08.1008 | 8.1 | * |
| 1999 | Deere | XJDXL08.1009 | 8.1 | * |
| 1999 | Deere | XJDXL08.1019 | 8.1 | * |
| 1999 | Deere | XJDXL08.1024 | 8.1 | * |
| 1999 | Deere | XJDXL10.1006 | 10.1 | * |
| 1999 | Deere | XJDXL10.5003 | 10.5 | * |
| 1999 | Deere | XJDXL10.5004 | 10.5 | * |
| 1999 | Deere | XJDXL10.5022 | 10.5 | * |
| 1999 | Detroit Diesel Corporation | XDDXL08.5TJD | 8.5 | * |
| 1999 | Detroit Diesel Corporation | XDDXL11.1THD | 11.1 | * |
| 1999 | Deutz | XDZXL07.1004 | 7.2 | 4.8 |
| 1999 | Deutz | XDZXL07.1005 | 7.2 | 4.8 |
| 1999 | Deutz | XDZXL15.9002 | 11.9 | * |
| 1999 | Deutz | XDZXL15.9003 | 11.9 | * |
| 1999 | Hino | XHMXL08.8PTD | 8.8 | * |

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| Model Year | Manufacturer | Engine Family | Displacement (L) | |
|------------|------------------------------|---------------|------------------|-----|
| 1999 | International | XNVXL0466ANA | 7.6 | * |
| 1999 | International | XNVXL0466BNA | 7.6 | * |
| 1999 | International | XNVXL0530ANA | 8.7 | * |
| 1999 | International | XNVXL0530ANB | 8.7 | * |
| 1999 | International | XNVXL0530ANC | 8.7 | * |
| 1999 | International | XNVXL0530AND | 8.7 | * |
| 1999 | International | XNVXL0530BNA | 8.7 | 7.6 |
| 1999 | International | XNVXL0530BNB | 8.7 | 7.6 |
| 1999 | International | XNVXL0530BNC | 8.7 | * |
| 1999 | International | XNVXL0530BND | 8.7 | * |
| 1999 | Isuzu | XSZXL09.8DTB | 9.8 | * |
| 1999 | Iveco | XEVXL09.5DAR | 9.5 | * |
| 1999 | Iveco | XVEXL07.7DAR | 7.7 | * |
| 1999 | Komatsu | XKLXL11.0DA1 | 11.0 | * |
| 1999 | Komatsu | XKLXL11.0DB1 | 11.0 | * |
| 1999 | Komatsu | XKLXL11.0DC1 | 11.0 | * |
| 1999 | Komatsu | XKLXL7.15CB1 | 7.2 | * |
| 1999 | Komatsu | XKLXL7.15CC1 | 7.2 | * |
| 1999 | Komatsu Dresser | XKDXL0359ABA | 5.9 | * |
| 1999 | Komatsu Dresser | XKDXL0505AAA | 8.3 | * |
| 1999 | Komatsu Dresser | XKDXL0505ABB | 8.3 | * |
| 1999 | Komatsu Dresser | XKDXL0505ACA | 8.3 | * |
| 1999 | Liebherr Machines Bulle SA | XLHAL9.96ARA | 10.0 | 6.6 |
| 1999 | Liebherr Machines Bulle SA | XLHAL9.96ASA | 10.0 | 6.6 |
| 1999 | Liebherr Machines Bulle SA | XLHAL9.96ATA | 10.0 | 6.6 |
| 1999 | Mitsubishi Motors | XMTXL07.5D6A | 7.5 | * |
| 1999 | Mitsubishi Motors | XMTXL07.5D6C | 7.5 | * |
| 1999 | Mitsubishi Motors | XMTXL11.9D6A | 11.9 | * |
| 1999 | New Holland | XNHXL07.5A3V | 7.5 | * |
| 1999 | Volvo Construction Equipment | XVSXL06.7CE1 | 6.7 | * |
| 1999 | Volvo Construction Equipment | XVSXL09.6CE1 | 9.6 | * |
| 1999 | Volvo Construction Equipment | XVSXL12.0CE1 | 12.0 | * |
| 2000 | AB Volvo Penta | YVPXL05.5ABA | 5.5 | * |
| 2000 | AB Volvo Penta | YVPXL06.7AAA | 6.7 | * |
| 2000 | AB Volvo Penta | YVPXL06.7ABA | 6.7 | * |
| 2000 | AB Volvo Penta | YVPXL07.3ABB | 7.3 | * |
| 2000 | AB Volvo Penta | YVPXL07.3ACB | 7.3 | * |
| 2000 | AB Volvo Penta | YVPXL09.6AAA | 9.6 | * |
| 2000 | AB Volvo Penta | YVPXL09.6ABA | 9.6 | * |
| 2000 | AB Volvo Penta | YVPXL09.6ACB | 9.6 | * |
| 2000 | AB Volvo Penta | YVPXL12.0ABA | 12.0 | * |
| 2000 | Case | YX9XL0359ABA | 5.9 | * |
| 2000 | Case | YX9XL0359ABB | 5.9 | * |
| 2000 | Case | YX9XL0505ABA | 8.3 | * |
| 2000 | Case | YX9XL0505ABB | 8.3 | * |
| 2000 | Case | YX9XL0505ABC | 8.3 | * |
| 2000 | Case | YX9XL0505ACA | 8.3 | * |
| 2000 | Caterpillar | YCPXL06.6MRC | 6.6 | * |

¹ Do not remove Original Equipment DOC, install BP sensor upstream and Phoenix downstream

| Model Year | Manufacturer | Engine Family | Displacement (L) | |
|------------|----------------------------|---------------|------------------|-----|
| 2000 | Caterpillar | YCPXL07.0MRB | 7.0 | * |
| 2000 | Caterpillar | YCPXL07.2HRK | 7.2 | * |
| 2000 | Caterpillar | YCPXL07.2MRB | 7.2 | * |
| 2000 | Caterpillar | YCPXL10.3ERK | 10.3 | * |
| 2000 | Caterpillar | YCPXL10.5MRD | 10.5 | * |
| 2000 | Caterpillar | YCPXL10.5MRG | 10.5 | * |
| 2000 | Caterpillar | YCPXL12.0ERM | 12.0 | * |
| 2000 | Cummins | YCEXL0359ABA | 5.9 | * |
| 2000 | Cummins | YCEXL0359ABB | 5.9 | * |
| 2000 | Cummins | YCEXL0505AAA | 8.3 | * |
| 2000 | Cummins | YCEXL0505ABA | 8.3 | * |
| 2000 | Cummins | YCEXL0505ABB | 8.3 | * |
| 2000 | Cummins | YCEXL0505ABC | 8.3 | * |
| 2000 | Cummins | YCEXL0505ACA | 8.3 | * |
| 2000 | Cummins | YCEXL0661AAA | 11.0 | * |
| 2000 | Cummins | YCEXL0661AAB | 11.0 | * |
| 2000 | DaimlerChrysler | YMBXL12.0RJA | 12.0 | * |
| 2000 | DaimlerChrysler | YMBXL12.0RJB | 12.0 | * |
| 2000 | DaimlerChrysler | YMBXL12.9R6A | 10.0 | * |
| 2000 | DaimlerChrysler | YMBXL14.6R6A | 11.0 | * |
| 2000 | DaimlerChrysler | YMBXL21.9R6A | 11.0 | * |
| 2000 | DaimlerChrysler | YMBXL6.37RJA | 6.4 | * |
| 2000 | Deere | YJDXL06.8012 | 6.8 | 4.5 |
| 2000 | Deere | YJDXL06.8013 | 6.8 | * |
| 2000 | Deere | YJDXL06.8014 | 6.8 | 4.5 |
| 2000 | Deere | YJDXL06.8015 | 6.8 | 4.5 |
| 2000 | Deere | YJDXL08.1007 | 8.1 | * |
| 2000 | Deere | YJDXL08.1008 | 8.1 | * |
| 2000 | Deere | YJDXL08.1009 | 8.1 | * |
| 2000 | Deere | YJDXL08.1019 | 8.1 | * |
| 2000 | Deere | YJDXL08.1024 | 8.1 | * |
| 2000 | Deere | YJDXL10.1006 | 10.1 | * |
| 2000 | Deere | YJDXL10.5004 | 10.5 | * |
| 2000 | Deere | YJDXL10.5022 | 10.5 | * |
| 2000 | Detroit Diesel Corporation | YDDXL08.5TJD | 8.5 | * |
| 2000 | Detroit Diesel Corporation | YDDXL11.1THD | 11.1 | * |
| 2000 | Deutz | YDZXL07.1004 | 7.2 | 4.8 |
| 2000 | Deutz | YDZXL07.1005 | 7.2 | 4.8 |
| 2000 | Deutz | YDZXL15.9002 | 11.9 | * |
| 2000 | Deutz | YDZXL15.9003 | 11.9 | * |
| 2000 | Hino | YHMXL06.7HTD | 6.7 | * |
| 2000 | Hino | YHMXL08.8PTD | 8.8 | * |
| 2000 | International | YNVXL0466ANA | 7.6 | * |
| 2000 | International | YNVXL0530ANA | 8.7 | * |
| 2000 | International | YNVXL0530ANB | 8.7 | * |
| 2000 | International | YNVXL0530ANC | 8.7 | * |
| 2000 | International | YNVXL0530AND | 8.7 | * |
| 2000 | Isuzu | YSZXL06.5EXA | 6.5 | * |

¹ Do not remove Original Equipment DOC, install BP sensor upstream and Phoenix downstream

| Model Year | Manufacturer | Engine Family | Displacement (L) | |
|------------|------------------------------|---------------|------------------|-----|
| 2000 | Isuzu | YSZXL07.8EXA | 7.8 | * |
| 2000 | Isuzu | YSZXL09.8ATB | 9.8 | * |
| 2000 | Iveco | YVEXL07.7DAR | 7.7 | * |
| 2000 | Iveco | YVEXL09.5DAR | 9.5 | * |
| 2000 | Komatsu | YKLXL0359ABA | 5.9 | * |
| 2000 | Komatsu | YKLXL0505ABB | 8.3 | * |
| 2000 | Komatsu | YKLXL0505ACA | 8.3 | * |
| 2000 | Komatsu | YKLXL11.0DA1 | 11.0 | * |
| 2000 | Komatsu | YKLXL11.0DB1 | 11.0 | * |
| 2000 | Komatsu | YKLXL11.0DC1 | 11.0 | * |
| 2000 | Komatsu | YKLXL11.0DC1 | 11.0 | * |
| 2000 | Komatsu | YKLXL7.15CB1 | 7.2 | * |
| 2000 | Komatsu | YKLXL7.15CC1 | 7.2 | * |
| 2000 | Komatsu | YKLXL7.15CD1 | 7.2 | * |
| 2000 | Liebherr Machines Bulle SA | YLHAL9.96ARA | 10.0 | 6.6 |
| 2000 | Liebherr Machines Bulle SA | YLHAL9.96ASA | 10.0 | 6.6 |
| 2000 | Liebherr Machines Bulle SA | YLHAL9.96ATA | 10.0 | 6.6 |
| 2000 | Mitsubishi Motors | YMTXL05.8D3A | 5.8 | * |
| 2000 | Mitsubishi Motors | YMTXL07.5D6A | 7.5 | * |
| 2000 | Mitsubishi Motors | YMTXL07.5D6C | 7.5 | * |
| 2000 | Mitsubishi Motors | YMTXL11.9D2A | 11.9 | * |
| 2000 | Mitsubishi Motors | YMTXL11.9D6A | 11.9 | * |
| 2000 | New Holland | YNHXL07.5A3V | 7.5 | * |
| 2000 | Volvo Construction Equipment | YVSXL06.7CE1 | 6.7 | * |
| 2000 | Volvo Construction Equipment | YVSXL09.6CE1 | 9.6 | * |
| 2000 | Volvo Construction Equipment | YVSXL12.0CE1 | 12.0 | * |
| 2001 | AB Volvo Penta | 1VPXL05.5ABA | 5.5 | * |
| 2001 | AB Volvo Penta | 1VPXL06.7AAA | 6.7 | * |
| 2001 | AB Volvo Penta | 1VPXL06.7ABA | 6.7 | * |
| 2001 | AB Volvo Penta | 1VPXL07.3ABB | 7.3 | * |
| 2001 | AB Volvo Penta | 1VPXL07.3ACB | 7.3 | * |
| 2001 | AB Volvo Penta | 1VPXL09.6AAA | 9.6 | * |
| 2001 | AB Volvo Penta | 1VPXL09.6ABA | 9.6 | * |
| 2001 | AB Volvo Penta | 1VPXL09.6ACB | 9.6 | * |
| 2001 | Case | 1X9XL0359ABA | 5.9 | * |
| 2001 | Case | 1X9XL0505ABA | 8.3 | * |
| 2001 | Case | 1X9XL0505ABB | 8.3 | * |
| 2001 | Case | 1X9XL0505ABC | 8.3 | * |
| 2001 | Case | 1X9XL0505ACA | 8.3 | * |
| 2001 | Case | 1X9XL0505ACC | 8.3 | * |
| 2001 | Case | 1X9XL0540AAA | 8.8 | * |
| 2001 | Caterpillar | 1CPXL06.6MRC | 6.6 | * |
| 2001 | Caterpillar | 1CPXL07.0MRB | 7.0 | * |
| 2001 | Caterpillar | 1CPXL07.2HRK | 7.2 | * |
| 2001 | Caterpillar | 1CPXL07.2HSK | 7.2 | * |
| 2001 | Caterpillar | 1CPXL08.8HSK | 8.8 | * |
| 2001 | Caterpillar | 1CPXL10.3ESK | 10.3 | * |
| 2001 | Caterpillar | 1CPXL10.5MRD | 10.5 | * |

¹ Do not remove Original Equipment DOC, install BP sensor upstream and Phoenix downstream

| Model Year | Manufacturer | Engine Family | Displacement (L) | |
|------------|----------------------------|---------------|------------------|------|
| 2001 | Caterpillar | 1CPXL10.5MRG | 10.5 | * |
| 2001 | Caterpillar | 1CPXL12.0ESK | 12.0 | * |
| 2001 | Cummins | 1CEXH0359BAV | #N/A | #N/A |
| 2001 | Cummins | 1CEXL0239ACA | 3.9 | * |
| 2001 | Cummins | 1CEXL0359ABA | 5.9 | * |
| 2001 | Cummins | 1CEXL0359ABB | 5.9 | * |
| 2001 | Cummins | 1CEXL0359ABC | 5.9 | * |
| 2001 | Cummins | 1CEXL0359ABD | 5.9 | * |
| 2001 | Cummins | 1CEXL0505ABA | 8.3 | * |
| 2001 | Cummins | 1CEXL0505ABB | 8.3 | * |
| 2001 | Cummins | 1CEXL0505ABC | 8.3 | * |
| 2001 | Cummins | 1CEXL0505ACA | 8.3 | * |
| 2001 | Cummins | 1CEXL0505ACB | 8.3 | * |
| 2001 | Cummins | 1CEXL0505ACC | 8.3 | * |
| 2001 | Cummins | 1CEXL0505ACE | 8.3 | * |
| 2001 | Cummins | 1CEXL0540AAA | 8.8 | * |
| 2001 | Cummins | 1CEXL0661AAA | 10.8 | * |
| 2001 | Cummins | 1CEXL0661AAB | 10.8 | * |
| 2001 | Cummins | 1CEXL0661AAC | 11.0 | * |
| 2001 | Cummins | 1CEXL0661AAD | 10.9 | * |
| 2001 | Daewoo | 1DWXL11.1BIA | 11.1 | * |
| 2001 | DaimlerChrysler | 1MBXL12.0RJB | 12.0 | * |
| 2001 | DaimlerChrysler | 1MBXL12.0RJC | 12.0 | * |
| 2001 | DaimlerChrysler | 1MBXL12.9R6A | 10.0 | * |
| 2001 | DaimlerChrysler | 1MBXL14.6R6A | 11.0 | * |
| 2001 | DaimlerChrysler | 1MBXL21.9R6A | 11.0 | * |
| 2001 | DaimlerChrysler | 1MBXL6.37RJA | 6.4 | * |
| 2001 | DaimlerChrysler | 1MBXL6.37RJB | 6.4 | * |
| 2001 | DaimlerChrysler | 1MBXL7.20RJA | 7.2 | * |
| 2001 | Deere | 1JDXL06.8012 | 6.8 | 4.5 |
| 2001 | Deere | 1JDXL06.8013 | 6.8 | * |
| 2001 | Deere | 1JDXL06.8038 | 6.8 | * |
| 2001 | Deere | 1JDXL06.8039 | 6.8 | * |
| 2001 | Deere | 1JDXL08.1007 | 8.1 | * |
| 2001 | Deere | 1JDXL08.1008 | 8.1 | * |
| 2001 | Deere | 1JDXL08.1009 | 8.1 | * |
| 2001 | Deere | 1JDXL08.1019 | 8.1 | * |
| 2001 | Deere | 1JDXL08.1024 | 8.1 | * |
| 2001 | Deere | 1JDXL08.1036 | 8.1 | * |
| 2001 | Deere | 1JDXL08.1037 | 8.1 | * |
| 2001 | Detroit Diesel Corporation | 1DDXL08.5TJD | 8.5 | * |
| 2001 | Detroit Diesel Corporation | 1DDXL08.5YJD | 8.5 | * |
| 2001 | Deutz | 1DZXL07.1004 | 7.2 | 4.8 |
| 2001 | Deutz | 1DZXL07.1005 | 7.2 | 4.8 |
| 2001 | Deutz | 1DZXL15.9002 | 11.9 | * |
| 2001 | Deutz | 1DZXL15.9003 | 11.9 | * |
| 2001 | International | 1NVXL0466ANA | 7.7 | * |
| 2001 | International | 1NVXL0530ANA | 8.7 | * |

¹ Do not remove Original Equipment DOC, install BP sensor upstream and Phoenix downstream

| Model Year | Manufacturer | Engine Family | Displacement (L) | |
|------------|------------------------------|---------------|------------------|----|
| 2001 | International | 1NVXL0530ANB | 8.7 | * |
| 2001 | International | 1NVXL0530ANC | 8.7 | * |
| 2001 | International | 1NVXL0530AND | 8.7 | * |
| 2001 | International | 1NVXL0530ANE | 8.7 | * |
| 2001 | International | 1NVXL0530ANF | 8.7 | * |
| 2001 | Isuzu | 1SZXL06.5EXA | 6.5 | * |
| 2001 | Isuzu | 1SZXL07.8ATA | 7.8 | * |
| 2001 | Isuzu | 1SZXL07.8EXA | 7.8 | * |
| 2001 | Isuzu | 1SZXL09.8EXA | 9.8 | * |
| 2001 | Iveco | 1VEXL07.7DAR | 7.7 | * |
| 2001 | Iveco | 1VEXL07.8CRS | 7.8 | * |
| 2001 | Iveco | 1VEXL09.5DAR | 9.5 | * |
| 2001 | Iveco | 1VEXL10.3CRS | 10.3 | * |
| 2001 | Komatsu | 1KLXL0359ABA | 5.9 | * |
| 2001 | Komatsu | 1KLXL0359ABC | 5.9 | * |
| 2001 | Komatsu | 1KLXL0505ABB | 8.3 | * |
| 2001 | Komatsu | 1KLXL0505ACA | 8.3 | * |
| 2001 | Komatsu | 1KLXL11.0DA1 | 11.0 | * |
| 2001 | Komatsu | 1KLXL11.0DB1 | 11.0 | * |
| 2001 | Komatsu | 1KLXL11.0DC1 | 11.0 | * |
| 2001 | Komatsu | 1KLXL11.0DD3 | 11.0 | * |
| 2001 | Komatsu | 1KLXL11.0DD4 | 11.0 | * |
| 2001 | Komatsu | 1KLXL7.15CB1 | 7.2 | * |
| 2001 | Komatsu | 1KLXL7.15CC1 | 7.2 | * |
| 2001 | Komatsu | 1KLXL7.15CD1 | 7.2 | * |
| 2001 | Liebherr Machines Bulle SA | 1LHAL9.96ARA | 6.6 | 10 |
| 2001 | Liebherr Machines Bulle SA | 1LHAL9.96ASA | 6.6 | 10 |
| 2001 | Liebherr Machines Bulle SA | 1LHAL9.96ATA | 6.6 | 10 |
| 2001 | Liebherr Machines Bulle SA | 1LHAL9.96AUA | 6.6 | 10 |
| 2001 | Mitsubishi Motors | 1MTXL05.8D3A | 5.9 | * |
| 2001 | Mitsubishi Motors | 1MTXL07.5D6A | 7.5 | * |
| 2001 | Mitsubishi Motors | 1MTXL07.5D6C | 7.5 | * |
| 2001 | Mitsubishi Motors | 1MTXL11.9D6A | 11.9 | * |
| 2001 | Perkins | 1PKXL05.9YK1 | 5.9 | * |
| 2001 | Volvo Construction Equipment | 1VSXL06.7CE1 | 6.7 | * |
| 2001 | Volvo Construction Equipment | 1VSXL09.6CE1 | 9.6 | * |
| 2001 | Volvo Construction Equipment | 1VSXL09.6CE2 | 9.6 | * |
| 2001 | Volvo Construction Equipment | 1VSXL12.0CE1 | 12.0 | * |
| 2002 | AB Volvo Penta | 2VPXL05.5ABA | 5.5 | * |
| 2002 | AB Volvo Penta | 2VPXL06.7AAA | 6.7 | * |
| 2002 | AB Volvo Penta | 2VPXL06.7ABA | 6.7 | * |
| 2002 | AB Volvo Penta | 2VPXL07.3ABB | 7.3 | * |
| 2002 | AB Volvo Penta | 2VPXL07.3ACB | 7.3 | * |
| 2002 | AB Volvo Penta | 2VPXL09.6AAA | 9.6 | * |
| 2002 | AB Volvo Penta | 2VPXL09.6ABA | 9.6 | * |
| 2002 | AB Volvo Penta | 2VPXL09.6ACB | 9.6 | * |
| 2002 | Case | 2X9XL0359ABA | 5.9 | * |
| 2002 | Case | 2X9XL0359ABB | 5.9 | * |

¹ Do not remove Original Equipment DOC, install BP sensor upstream and Phoenix downstream

| Model Year | Manufacturer | Engine Family | Displacement (L) | |
|------------|-----------------|---------------|------------------|-----|
| 2002 | Case | 2X9XL0359ABE | 5.9 | * |
| 2002 | Case | 2X9XL0505ABA | 8.3 | * |
| 2002 | Case | 2X9XL0505ABB | 8.3 | * |
| 2002 | Case | 2X9XL0505ABC | 8.3 | * |
| 2002 | Case | 2X9XL0505ABD | 8.3 | * |
| 2002 | Case | 2X9XL0505ACA | 8.3 | * |
| 2002 | Case | 2X9XL0505ACC | 8.3 | * |
| 2002 | Case | 2X9XL0540AAA | 8.8 | * |
| 2002 | Caterpillar | 2CPXL06.6MRC | 6.6 | * |
| 2002 | Caterpillar | 2CPXL07.0MRB | 7.0 | * |
| 2002 | Caterpillar | 2CPXL07.2HRK | 7.2 | * |
| 2002 | Caterpillar | 2CPXL07.2HSX | 7.2 | * |
| 2002 | Caterpillar | 2CPXL08.8HSK | 8.8 | * |
| 2002 | Caterpillar | 2CPXL08.8HSX | 8.8 | * |
| 2002 | Caterpillar | 2CPXL10.3ESK | 10.3 | * |
| 2002 | Caterpillar | 2CPXL10.3ESX | 10.3 | * |
| 2002 | Caterpillar | 2CPXL10.5MRD | 10.5 | * |
| 2002 | Caterpillar | 2CPXL12.0ESK | 12.0 | * |
| 2002 | Cummins | 2CEXL0239ACA | 3.9 | * |
| 2002 | Cummins | 2CEXL0359ABA | 5.9 | * |
| 2002 | Cummins | 2CEXL0359ABB | 5.9 | * |
| 2002 | Cummins | 2CEXL0359ABC | 5.9 | * |
| 2002 | Cummins | 2CEXL0359ABE | 5.9 | * |
| 2002 | Cummins | 2CEXL0505ABA | 8.3 | * |
| 2002 | Cummins | 2CEXL0505ABB | 8.3 | * |
| 2002 | Cummins | 2CEXL0505ABC | 8.3 | * |
| 2002 | Cummins | 2CEXL0505ABD | 8.3 | * |
| 2002 | Cummins | 2CEXL0505ACA | 8.3 | * |
| 2002 | Cummins | 2CEXL0505ACB | 8.3 | * |
| 2002 | Cummins | 2CEXL0505ACC | 8.3 | * |
| 2002 | Cummins | 2CEXL0505ACE | 8.3 | * |
| 2002 | Cummins | 2CEXL0540AAA | 8.8 | * |
| 2002 | Cummins | 2CEXL0661AAA | 10.8 | * |
| 2002 | Cummins | 2CEXL0661AAB | 10.8 | * |
| 2002 | Cummins | 2CEXL0661AAC | 10.8 | * |
| 2002 | Cummins | 2CEXL0661AAD | 10.3 | * |
| 2002 | Daewoo | 2DWXL11.1BIA | 11.1 | * |
| 2002 | DaimlerChrysler | 2MBXL12.0RJB | 12.0 | * |
| 2002 | DaimlerChrysler | 2MBXL12.0RJC | 12.0 | * |
| 2002 | Deere | 2JDXL06.8012 | 4.5 | 6.8 |
| 2002 | Deere | 2JDXL06.8013 | 4.5 | 6.8 |
| 2002 | Deere | 2JDXL06.8038 | 6.8 | * |
| 2002 | Deere | 2JDXL06.8039 | 6.8 | * |
| 2002 | Deere | 2JDXL06.8049 | 6.8 | * |
| 2002 | Deere | 2JDXL08.1007 | 8.1 | * |
| 2002 | Deere | 2JDXL08.1008 | 8.1 | * |
| 2002 | Deere | 2JDXL08.1009 | 8.1 | * |
| 2002 | Deere | 2JDXL08.1019 | 8.1 | * |

¹ Do not remove Original Equipment DOC, install BP sensor upstream and Phoenix downstream

| Model Year | Manufacturer | Engine Family | Displacement (L) | |
|------------|----------------------------|---------------|------------------|-----|
| 2002 | Deere | 2JDXL08.1024 | 8.1 | * |
| 2002 | Deere | 2JDXL08.1036 | 8.1 | * |
| 2002 | Deere | 2JDXL08.1037 | 8.1 | * |
| 2002 | Deere | 2JDXL08.1045 | 8.1 | * |
| 2002 | Detroit Diesel Corporation | 2DDXL08.5YJD | 8.5 | * |
| 2002 | Deutz | 2DZXL06.1028 | 4.0 | 6.1 |
| 2002 | Deutz | 2DZXL07.1004 | 7.1 | 4.8 |
| 2002 | Deutz | 2DZXL07.1005 | 7.1 | 4.8 |
| 2002 | Deutz | 2DZXL07.1032 | 7.1 | 4.8 |
| 2002 | Deutz | 2DZXL15.9002 | 11.9 | * |
| 2002 | Deutz | 2DZXL15.9003 | 11.9 | * |
| 2002 | International | 2NVXL0444ANA | 7.3 | * |
| 2002 | International | 2NVXL0466ANA | 7.6 | * |
| 2002 | International | 2NVXL0530ANA | 8.7 | * |
| 2002 | International | 2NVXL0530ANB | 8.7 | * |
| 2002 | International | 2NVXL0530ANC | 8.7 | * |
| 2002 | International | 2NVXL0530AND | 8.7 | * |
| 2002 | International | 2NVXL0530ANE | 8.7 | * |
| 2002 | International | 2NVXL0530ANF | 8.7 | * |
| 2002 | Isuzu | 2SZXL06.5EXA | 6.5 | * |
| 2002 | Isuzu | 2SZXL07.8ATA | 7.8 | * |
| 2002 | Isuzu | 2SZXL07.8EXA | 7.8 | * |
| 2002 | Isuzu | 2SZXL09.8EXA | 9.8 | * |
| 2002 | Iveco | 2VEXL05.9DCR | 5.9 | * |
| 2002 | Iveco | 2VEXL07.7DAR | 7.7 | * |
| 2002 | Iveco | 2VEXL07.8CRS | 7.8 | * |
| 2002 | Iveco | 2VEXL10.3CRS | 10.3 | * |
| 2002 | Komatsu | 2KLXL0239ACA | 3.9 | * |
| 2002 | Komatsu | 2KLXL0359ABA | 5.9 | * |
| 2002 | Komatsu | 2KLXL0359ABC | 5.9 | * |
| 2002 | Komatsu | 2KLXL0505ABB | 8.3 | * |
| 2002 | Komatsu | 2KLXL0505ABD | 8.3 | * |
| 2002 | Komatsu | 2KLXL0505ACA | 8.3 | * |
| 2002 | Komatsu | 2KLXL11.0DA1 | 11.0 | * |
| 2002 | Komatsu | 2KLXL11.0DB1 | 11.0 | * |
| 2002 | Komatsu | 2KLXL11.0DC1 | 11.0 | * |
| 2002 | Komatsu | 2KLXL11.0DC3 | 11.0 | * |
| 2002 | Komatsu | 2KLXL11.0DD3 | 11.0 | * |
| 2002 | Komatsu | 2KLXL11.0DD4 | 11.0 | * |
| 2002 | Komatsu | 2KLXL11.0DD5 | 11.0 | * |
| 2002 | Komatsu | 2KLXL11.0DD6 | 11.0 | * |
| 2002 | Komatsu | 2KLXL7.15CB1 | 7.2 | * |
| 2002 | Komatsu | 2KLXL7.15CC1 | 7.2 | * |
| 2002 | Komatsu | 2KLXL7.15CD1 | 7.2 | * |
| 2002 | Liebherr Machines Bulle SA | 2LHAL9.96ARA | 6.6 | 10 |
| 2002 | Liebherr Machines Bulle SA | 2LHAL9.96ASA | 6.6 | 10 |
| 2002 | Liebherr Machines Bulle SA | 2LHAL9.96ATA | 6.6 | 10 |
| 2002 | Liebherr Machines Bulle SA | 2LHAL9.96AUA | 6.6 | 10 |

¹ Do not remove Original Equipment DOC, install BP sensor upstream and Phoenix downstream

| Model Year | Manufacturer | Engine Family | Displacement (L) | |
|------------|------------------------------|---------------|------------------|-----|
| 2002 | Mitsubishi Fuso | 2MFTL05.8D3B | 5.9 | * |
| 2002 | Mitsubishi Motors | 2MTXL05.8D3A | 5.8 | * |
| 2002 | Mitsubishi Motors | 2MTXL07.5D6A | 7.5 | * |
| 2002 | Mitsubishi Motors | 2MTXL07.5D6C | 7.5 | * |
| 2002 | Mitsubishi Motors | 2MTXL07.5D6D | 7.5 | * |
| 2002 | Mitsubishi Motors | 2MTXL11.9D2C | 11.9 | * |
| 2002 | Mitsubishi Motors | 2MTXL11.9D6A | 11.9 | * |
| 2002 | New Holland | 2NHXL07.5A3A | 7.5 | * |
| 2002 | New Holland | 2NHXL07.5A3F | 7.5 | * |
| 2002 | Perkins | 2PKXL05.9YK1 | 6.0 | * |
| 2002 | Volvo Construction Equipment | 2VSVL06.7CE1 | 6.7 | * |
| 2002 | Volvo Construction Equipment | 2VSVL09.6CE2 | 9.6 | * |
| 2003 | AB Volvo Penta | 3VPXL07.3ACB | 7.3 | * |
| 2003 | AB Volvo Penta | 3VPXL09.6ACB | 9.6 | * |
| 2003 | Caterpillar | 3CPXL06.6MTW | 6.6 | * |
| 2003 | Caterpillar | 3CPXL07.2HSK | 7.2 | * |
| 2003 | Caterpillar | 3CPXL07.2HSL | 7.2 | * |
| 2003 | Caterpillar | 3CPXL08.8HSK | 8.8 | * |
| 2003 | Caterpillar | 3CPXL08.8HSL | 8.8 | * |
| 2003 | Caterpillar | 3CPXL10.3ESK | 10.3 | * |
| 2003 | Caterpillar | 3CPXL10.5MRW | 10.5 | * |
| 2003 | Caterpillar | 3CPXL12.0ESK | 12.0 | * |
| 2003 | CNH Engine Corporation | 3X9XL0359AAC | 5.9 | * |
| 2003 | CNH Engine Corporation | 3X9XL0505AAB | 8.3 | * |
| 2003 | CNH Engine Corporation | 3X9XL0505ABC | 8.3 | * |
| 2003 | CNH Engine Corporation | 3X9XL0505ABD | 8.3 | * |
| 2003 | CNH Engine Corporation | 3X9XL0505ACC | 8.3 | * |
| 2003 | CNH Engine Corporation | 3X9XL0540AAA | 8.8 | * |
| 2003 | CNH UK Limited | 3NHXL06.7DCR | 3.9 | 4.5 |
| 2003 | CNH UK Limited | 3NHXL06.7DTA | 3.9 | 6.7 |
| 2003 | CNH UK Limited | 3NHXL07.5B2H | 7.5 | * |
| 2003 | CNH UK Limited | 3NHXL07.5B3A | 7.5 | * |
| 2003 | CNH UK Limited | 3NHXL07.5B3C | 7.5 | * |
| 2003 | CNH UK Limited | 3NHXL07.5B3F | 7.5 | * |
| 2003 | Cummins | 3CEXL0239AAD | 3.9 | * |
| 2003 | Cummins | 3CEXL0239AAF | 3.9 | * |
| 2003 | Cummins | 3CEXL0275AAA | 4.5 | * |
| 2003 | Cummins | 3CEXL0275AAB | 4.5 | * |
| 2003 | Cummins | 3CEXL0359AAB | 5.9 | * |
| 2003 | Cummins | 3CEXL0359AAC | 5.9 | * |
| 2003 | Cummins | 3CEXL0359AAD | 5.9 | * |
| 2003 | Cummins | 3CEXL0359ABC | 5.9 | * |
| 2003 | Cummins | 3CEXL0359ABE | 5.9 | * |
| 2003 | Cummins | 3CEXL0409AAA | 6.7 | * |
| 2003 | Cummins | 3CEXL0505ABC | 8.3 | * |
| 2003 | Cummins | 3CEXL0505ABD | 8.3 | * |
| 2003 | Cummins | 3CEXL0505ACB | 8.3 | * |
| 2003 | Cummins | 3CEXL0505ACC | 8.3 | * |

¹ Do not remove Original Equipment DOC, install BP sensor upstream and Phoenix downstream

| Model Year | Manufacturer | Engine Family | Displacement (L) | |
|------------|----------------------------|---------------|------------------|-----|
| 2003 | Cummins | 3CEXL0540AAA | 8.8 | * |
| 2003 | Cummins | 3CEXL0661AAC | 10.8 | * |
| 2003 | Cummins | 3CEXL0661AAD | 10.8 | * |
| 2003 | Cummins | 3CEXL0661AAE | 10.8 | * |
| 2003 | Daewoo | 3DWXL05.8COA | 5.8 | * |
| 2003 | Daewoo | 3DWXL08.1CPA | 8.1 | * |
| 2003 | Daewoo | 3DWXL11.1DJA | 11.1 | * |
| 2003 | DaimlerChrysler | 3MBXL12.0RJB | 12.0 | * |
| 2003 | DaimlerChrysler | 3MBXL12.0RJC | 12.0 | * |
| 2003 | DaimlerChrysler | 3MBXL4.25RJB | 4.3 | * |
| 2003 | DaimlerChrysler | 3MBXL6.37RJB | 6.4 | * |
| 2003 | DaimlerChrysler | 3MBXL7.20RJA | 7.2 | * |
| 2003 | Deere | 3JDXL06.8038 | 6.8 | * |
| 2003 | Deere | 3JDXL06.8039 | 6.8 | * |
| 2003 | Deere | 3JDXL06.8041 | 6.8 | 4.5 |
| 2003 | Deere | 3JDXL06.8044 | 6.8 | 4.5 |
| 2003 | Deere | 3JDXL06.8048 | 6.8 | * |
| 2003 | Deere | 3JDXL06.8049 | 6.8 | * |
| 2003 | Deere | 3JDXL06.8052 | 6.8 | * |
| 2003 | Deere | 3JDXL06.8053 | 6.8 | * |
| 2003 | Deere | 3JDXL08.1037 | 8.1 | * |
| 2003 | Deere | 3JDXL08.1045 | 8.1 | * |
| 2003 | Deere | 3JDXL08.1058 | 8.1 | * |
| 2003 | Deere | 3JDXL08.1059 | 8.1 | * |
| 2003 | Detroit Diesel Corporation | 3DDXL08.5YJD | 8.5 | * |
| 2003 | Deutz | 3DZXL05.7019 | 3.8 | 5.7 |
| 2003 | Deutz | 3DZXL05.7033 | 5.7 | 3.8 |
| 2003 | Deutz | 3DZXL06.1028 | 4.0 | 6.1 |
| 2003 | Deutz | 3DZXL07.1032 | 7.2 | 4.8 |
| 2003 | Deutz | 3DZXL07.1034 | 7.2 | * |
| 2003 | Deutz | 3DZXL15.9002 | 11.9 | * |
| 2003 | International | 3NVXL0365AFA | 6.0 | * |
| 2003 | International | 3NVXL0530ANE | 8.7 | * |
| 2003 | International | 3NVXL0530ANF | 8.7 | * |
| 2003 | Isuzu | 3SZXL04.3FTA | 4.3 | * |
| 2003 | Isuzu | 3SZXL06.5EXA | 6.5 | * |
| 2003 | Isuzu | 3SZXL06.5FTA | 6.5 | * |
| 2003 | Isuzu | 3SZXL06.5FXA | 6.5 | * |
| 2003 | Isuzu | 3SZXL07.8ETA | 7.8 | * |
| 2003 | Isuzu | 3SZXL07.8EXA | 7.8 | * |
| 2003 | Isuzu | 3SZXL09.8EXA | 9.8 | * |
| 2003 | Iveco | 3VEXL06.7DCR | 3.9 | 4.5 |
| 2003 | Iveco | 3VEXL07.8CRS | 7.8 | * |
| 2003 | Iveco | 3VEXL10.3CRS | 10.3 | * |
| 2003 | Komatsu | 3KLXL0239AAD | 3.9 | * |
| 2003 | Komatsu | 3KLXL0239AAF | 3.9 | * |
| 2003 | Komatsu | 3KLXL0359AAB | 5.9 | * |
| 2003 | Komatsu | 3KLXL0359ABC | 5.9 | * |

¹ Do not remove Original Equipment DOC, install BP sensor upstream and Phoenix downstream

| Model Year | Manufacturer | Engine Family | Displacement (L) | |
|------------|------------------------------|---------------|------------------|-----|
| 2003 | Komatsu | 3KLXL0505ABD | 8.3 | * |
| 2003 | Komatsu | 3KLXL11.0DC3 | 11.0 | * |
| 2003 | Komatsu | 3KLXL11.0DD3 | 11.0 | * |
| 2003 | Komatsu | 3KLXL11.0DD5 | 11.0 | * |
| 2003 | Liebherr Machines Bulle SA | 3LHAL9.96ARA | 6.6 | 10 |
| 2003 | Liebherr Machines Bulle SA | 3LHAL9.96ASA | 6.6 | 10 |
| 2003 | Liebherr Machines Bulle SA | 3LHAL9.96ATA | 6.6 | 10 |
| 2003 | Liebherr Machines Bulle SA | 3LHAL9.96AUA | 6.6 | 10 |
| 2003 | Mitsubishi Fuso | 3MFTL03.9D3A | 3.9 | * |
| 2003 | Mitsubishi Fuso | 3MFTL05.8D3A | 5.9 | * |
| 2003 | Mitsubishi Fuso | 3MFTL05.8D3B | 5.9 | * |
| 2003 | Mitsubishi Fuso | 3MFTL07.5D6A | 7.5 | * |
| 2003 | Mitsubishi Fuso | 3MFTL07.5D6D | 7.5 | * |
| 2003 | Mitsubishi Fuso | 3MFTL07.5D6E | 7.5 | * |
| 2003 | Mitsubishi Fuso | 3MFTL07.5D6E | 7.5 | * |
| 2003 | Mitsubishi Heavy Industries | 3MVXL05.0DDD | 3.3 | 5 |
| 2003 | Mitsubishi Heavy Industries | 3MVXL06.4DDD | 6.4 | * |
| 2003 | Mitsubishi Motors | 3MTXL11.9D2A | 11.9 | * |
| 2003 | Perkins | 3PKXL04.4RH2 | 4.4 | * |
| 2003 | Perkins | 3PKXL04.4RK1 | 4.4 | * |
| 2003 | Perkins | 3PKXL06.0VK1 | 6.0 | * |
| 2003 | Volvo Construction Equipment | 3V5XL09.6CE2 | 9.6 | * |
| 2004 | AB Volvo Penta | 4VPXL07.3ACB | 7.3 | * |
| 2004 | AB Volvo Penta | 4VPXL09.4ACA | 9.4 | * |
| 2004 | AB Volvo Penta | 4VPXL09.4ACB | 9.4 | * |
| 2004 | AB Volvo Penta | 4VPXL09.4ACC | 9.4 | * |
| 2004 | AB Volvo Penta | 4VPXL09.6ACB | 9.6 | * |
| 2004 | Caterpillar | 4CPXL07.2HSK | 7.2 | * |
| 2004 | Caterpillar | 4CPXL07.2HSL | 7.2 | * |
| 2004 | Caterpillar | 4CPXL08.8ESK | 8.8 | * |
| 2004 | Caterpillar | 4CPXL08.8HSK | 8.8 | * |
| 2004 | Caterpillar | 4CPXL08.8HSL | 8.8 | * |
| 2004 | Caterpillar | 4CPXL10.3ESK | 10.3 | * |
| 2004 | Caterpillar | 4CPXL10.5MRW | 10.5 | * |
| 2004 | Caterpillar | 4CPXL11.1ESK | 11.1 | * |
| 2004 | Caterpillar | 4CPXL12.0ESK | 12.0 | * |
| 2004 | Caterpillar | 4CPXL12.5ESK | 11.1 | * |
| 2004 | CNH Engine Corporation | 4X9XL0239AAB | 3.9 | * |
| 2004 | CNH Engine Corporation | 4X9XL0239AAB | 3.9 | * |
| 2004 | CNH Engine Corporation | 4X9XL0239AAC | 3.9 | * |
| 2004 | CNH Engine Corporation | 4X9XL0359AAK | 5.9 | * |
| 2004 | CNH Engine Corporation | 4X9XL0359ABE | 5.9 | * |
| 2004 | CNH Engine Corporation | 4X9XL0505AAB | 8.3 | * |
| 2004 | CNH Engine Corporation | 4X9XL0505ABC | 8.3 | * |
| 2004 | CNH Engine Corporation | 4X9XL0505ABD | 8.3 | * |
| 2004 | CNH Engine Corporation | 4X9XL0505ACC | 8.3 | * |
| 2004 | CNH Engine Corporation | 4X9XL0540AAA | 8.8 | * |
| 2004 | CNH UK Limited | 4NHXL06.7DCR | 6.7 | 5.9 |

¹ Do not remove Original Equipment DOC, install BP sensor upstream and Phoenix downstream

| Model Year | Manufacturer | Engine Family | Displacement (L) | |
|------------|----------------------------|---------------|------------------|-----|
| 2004 | CNH UK Limited | 4NHXL07.5B2H | 7.5 | * |
| 2004 | CNH UK Limited | 4NHXL07.5B3A | 7.5 | * |
| 2004 | CNH UK Limited | 4NHXL07.5B3C | 7.5 | * |
| 2004 | CNH UK Limited | 4NHXL07.5B3F | 7.5 | * |
| 2004 | Cummins | 4CEXL0239AAD | 3.9 | * |
| 2004 | Cummins | 4CEXL0239AAF | 3.9 | * |
| 2004 | Cummins | 4CEXL0275AAB | 4.5 | * |
| 2004 | Cummins | 4CEXL0359AAB | 5.9 | * |
| 2004 | Cummins | 4CEXL0359AAC | 5.9 | * |
| 2004 | Cummins | 4CEXL0359AAD | 5.9 | * |
| 2004 | Cummins | 4CEXL0359AAF | 5.9 | * |
| 2004 | Cummins | 4CEXL0359AAH | 5.9 | * |
| 2004 | Cummins | 4CEXL0359ABC | 5.9 | * |
| 2004 | Cummins | 4CEXL0359ABE | 5.9 | * |
| 2004 | Cummins | 4CEXL0409AAA | 6.7 | * |
| 2004 | Cummins | 4CEXL0505ABC | 8.3 | * |
| 2004 | Cummins | 4CEXL0505ABD | 8.3 | * |
| 2004 | Cummins | 4CEXL0505ACB | 8.3 | * |
| 2004 | Cummins | 4CEXL0505ACC | 8.3 | * |
| 2004 | Cummins | 4CEXL0540AAA | 8.8 | * |
| 2004 | Cummins | 4CEXL0661AAC | 10.8 | * |
| 2004 | Cummins | 4CEXL0661AAD | 10.8 | * |
| 2004 | Cummins | 4CEXL0661AAE | 10.8 | * |
| 2004 | Daewoo | 4DWXL05.8COA | 5.8 | * |
| 2004 | Daewoo | 4DWXL05.8CRN | 5.8 | * |
| 2004 | Daewoo | 4DWXL08.1CPA | 8.1 | * |
| 2004 | Daewoo | 4DWXL11.1BIA | 11.1 | * |
| 2004 | Daewoo | 4DWXL11.1DJA | 11.1 | * |
| 2004 | DaimlerChrysler | 4MBXL12.0RJB | 12.0 | * |
| 2004 | DaimlerChrysler | 4MBXL12.0RJC | 12.0 | * |
| 2004 | DaimlerChrysler | 4MBXL4.25RJB | 4.3 | * |
| 2004 | DaimlerChrysler | 4MBXL6.37RJB | 6.4 | * |
| 2004 | DaimlerChrysler | 4MBXL7.20RJA | 7.2 | * |
| 2004 | Deere | 4JDXL06.8038 | 6.8 | * |
| 2004 | Deere | 4JDXL06.8039 | 4.5 | 6.8 |
| 2004 | Deere | 4JDXL06.8039 | 4.5 | 6.8 |
| 2004 | Deere | 4JDXL06.8041 | 4.5 | 6.8 |
| 2004 | Deere | 4JDXL06.8044 | 4.5 | 6.8 |
| 2004 | Deere | 4JDXL06.8048 | 4.5 | 6.8 |
| 2004 | Deere | 4JDXL06.8049 | 4.5 | 6.8 |
| 2004 | Deere | 4JDXL06.8052 | 6.8 | * |
| 2004 | Deere | 4JDXL06.8053 | 6.8 | * |
| 2004 | Deere | 4JDXL06.8072 | 6.8 | * |
| 2004 | Deere | 4JDXL08.1037 | 8.1 | * |
| 2004 | Deere | 4JDXL08.1045 | 8.1 | * |
| 2004 | Deere | 4JDXL08.1058 | 8.1 | * |
| 2004 | Deere | 4JDXL08.1059 | 8.1 | * |
| 2004 | Detroit Diesel Corporation | 4DDXL08.5YJD | 8.5 | * |

¹ Do not remove Original Equipment DOC, install BP sensor upstream and Phoenix downstream

| Model Year | Manufacturer | Engine Family | Displacement (L) | |
|------------|-----------------------------|---------------|------------------|-----|
| 2004 | Deutz | 4DZXL05.7019 | 3.8 | 5.7 |
| 2004 | Deutz | 4DZXL05.7033 | 5.7 | 3.8 |
| 2004 | Deutz | 4DZXL06.1028 | 4.0 | 6 |
| 2004 | Deutz | 4DZXL06.1038 | 6.1 | 4 |
| 2004 | Deutz | 4DZXL06.5036 | 6.5 | * |
| 2004 | Deutz | 4DZXL06.5037 | 6.5 | * |
| 2004 | Deutz | 4DZXL07.1032 | 7.2 | 4.8 |
| 2004 | Deutz | 4DZXL07.1034 | 7.2 | * |
| 2004 | Deutz | 4DZXL15.9002 | 11.9 | * |
| 2004 | International | 4NVXL0365AFA | 6.0 | * |
| 2004 | International | 4NVXL0530ANE | 8.7 | * |
| 2004 | International | 4NVXL0530ANF | 8.7 | * |
| 2004 | Isuzu | 4SZXL04.3FTA | 4.3 | * |
| 2004 | Isuzu | 4SZXL04.3FTA | 4.3 | * |
| 2004 | Isuzu | 4SZXL06.5EXA | 6.5 | * |
| 2004 | Isuzu | 4SZXL06.5FTA | 6.5 | * |
| 2004 | Isuzu | 4SZXL06.5FXA | 6.5 | * |
| 2004 | Isuzu | 4SZXL06.5FXG | 6.5 | * |
| 2004 | Isuzu | 4SZXL06.8ETA | 7.8 | * |
| 2004 | Isuzu | 4SZXL07.8EXA | 7.8 | * |
| 2004 | Isuzu | 4SZXL09.8EXA | 9.8 | * |
| 2004 | Iveco | 4VEXL05.9DGS | 5.9 | * |
| 2004 | Iveco | 4VEXL06.7DCR | 6.7 | 5.9 |
| 2004 | Iveco | 4VEXL07.8CRS | 7.8 | * |
| 2004 | Iveco | 4VEXL10.3CRS | 10.3 | * |
| 2004 | Komatsu | 4KLXL0239AAD | 3.9 | * |
| 2004 | Komatsu | 4KLXL0239AAF | 3.9 | * |
| 2004 | Komatsu | 4KLXL0359AAB | 5.9 | * |
| 2004 | Komatsu | 4KLXL0359ABC | 5.9 | * |
| 2004 | Komatsu | 4KLXL0505ABC | 8.3 | * |
| 2004 | Komatsu | 4KLXL0505ABD | 8.3 | * |
| 2004 | Komatsu | 4KLXL11.0DC3 | 11.0 | * |
| 2004 | Komatsu | 4KLXL11.0DD3 | 11.0 | * |
| 2004 | Komatsu | 4KLXL11.0DD5 | 11.0 | * |
| 2004 | Liebherr Machines Bulle SA | 4LHAL9.96ARA | 6.6 | 10 |
| 2004 | Liebherr Machines Bulle SA | 4LHAL9.96ASA | 6.6 | 10 |
| 2004 | Liebherr Machines Bulle SA | 4LHAL9.96ATA | 6.6 | 10 |
| 2004 | Liebherr Machines Bulle SA | 4LHAL9.96AUA | 6.6 | 10 |
| 2004 | Mitsubishi Fuso | 4MFTL03.9D3A | 3.9 | * |
| 2004 | Mitsubishi Fuso | 4MFTL05.8D3A | 5.9 | * |
| 2004 | Mitsubishi Fuso | 4MFTL05.8D3B | 5.9 | * |
| 2004 | Mitsubishi Fuso | 4MFTL07.5D6A | 7.5 | * |
| 2004 | Mitsubishi Fuso | 4MFTL07.5D6D | 7.5 | * |
| 2004 | Mitsubishi Fuso | 4MFTL07.5D6E | 7.5 | * |
| 2004 | Mitsubishi Fuso | 4MFTL11.9D2A | 11.9 | * |
| 2004 | Mitsubishi Heavy Industries | 4MVXL05.0DDD | 3.3 | 5 |
| 2004 | Mitsubishi Heavy Industries | 4MVXL06.4DDD | 6.4 | * |
| 2004 | Perkins | 4PKXL04.4RH2 | 4.4 | * |

¹ Do not remove Original Equipment DOC, install BP sensor upstream and Phoenix downstream

| Model Year | Manufacturer | Engine Family | Displacement (L) | |
|------------|------------------------------|---------------|------------------|-----|
| 2004 | Perkins | 4PKXL04.4RH2 | 4.4 | * |
| 2004 | Perkins | 4PKXL04.4RK1 | 4.4 | * |
| 2004 | Perkins | 4PKXL06.0VK1 | 6.0 | * |
| 2004 | Volvo Construction Equipment | 4VSVL09.4CE2 | 9.4 | * |
| 2004 | Volvo Construction Equipment | 4VSVL09.6CE2 | 9.6 | * |
| 2004 | Yanmar | 4YDXL4.41K4T | 4.4 | * |
| 2005 | AB Volvo Penta | 5VPXL07.3ACB | 7.3 | * |
| 2005 | AB Volvo Penta | 5VPXL09.4ACA | 9.4 | * |
| 2005 | AB Volvo Penta | 5VPXL09.4ACB | 9.4 | * |
| 2005 | AB Volvo Penta | 5VPXL09.4ACC | 9.4 | * |
| 2005 | AB Volvo Penta | 5VPXL09.6ACB | 9.6 | * |
| 2005 | Caterpillar | 5CPXL07.2ESL | 7.2 | * |
| 2005 | Caterpillar | 5CPXL07.2HSK | 7.2 | * |
| 2005 | Caterpillar | 5CPXL07.2HSL | 7.2 | * |
| 2005 | Caterpillar | 5CPXL08.8ESK | 8.8 | * |
| 2005 | Caterpillar | 5CPXL08.8ESL | 8.8 | * |
| 2005 | Caterpillar | 5CPXL08.8HSL | 8.8 | * |
| 2005 | Caterpillar | 5CPXL10.3ESK | 10.3 | * |
| 2005 | Caterpillar | 5CPXL10.5MRW | 10.5 | * |
| 2005 | Caterpillar | 5CPXL11.1ESK | 11.1 | * |
| 2005 | Caterpillar | 5CPXL12.0ESK | 12.0 | * |
| 2005 | CNH Engine Corporation | 5X9XL0239AAB | 3.9 | * |
| 2005 | CNH Engine Corporation | 5X9XL0239AAC | 3.9 | * |
| 2005 | CNH Engine Corporation | 5X9XL0359AAK | 5.9 | * |
| 2005 | CNH Engine Corporation | 5X9XL0359ABE | 5.9 | * |
| 2005 | CNH Engine Corporation | 5X9XL0505AAB | 8.3 | * |
| 2005 | CNH Engine Corporation | 5X9XL0505AAE | 8.3 | * |
| 2005 | CNH Engine Corporation | 5X9XL0505ABC | 8.3 | * |
| 2005 | CNH Engine Corporation | 5X9XL0505ABD | 8.3 | * |
| 2005 | CNH Engine Corporation | 5X9XL0505ACC | 8.3 | * |
| 2005 | CNH Engine Corporation | 5X9XL0540AAA | 8.8 | * |
| 2005 | CNH Engine Corporation | 5X9XL0540AAB | 8.8 | * |
| 2005 | CNH UK Limited | 5NHXL06.7DCR | 3.9 | 4.5 |
| 2005 | CNH UK Limited | 5NHXL07.5B2H | 7.5 | * |
| 2005 | CNH UK Limited | 5NHXL07.5B3A | 7.5 | * |
| 2005 | CNH UK Limited | 5NHXL07.5B3C | 7.5 | * |
| 2005 | CNH UK Limited | 5NHXL07.5B3F | 7.5 | * |
| 2005 | Cummins | 5CEXL0239AAD | 3.9 | * |
| 2005 | Cummins | 5CEXL0239AAF | 3.9 | * |
| 2005 | Cummins | 5CEXL0275AAB | 4.5 | * |
| 2005 | Cummins | 5CEXL0359AAB | 5.9 | * |
| 2005 | Cummins | 5CEXL0359AAC | 5.9 | * |
| 2005 | Cummins | 5CEXL0359AAD | 5.9 | * |
| 2005 | Cummins | 5CEXL0359AAF | 5.9 | * |
| 2005 | Cummins | 5CEXL0359AAG | 5.9 | * |
| 2005 | Cummins | 5CEXL0359AAH | 5.9 | * |
| 2005 | Cummins | 5CEXL0359ABC | 5.9 | * |
| 2005 | Cummins | 5CEXL0359ABE | 5.9 | * |

¹ Do not remove Original Equipment DOC, install BP sensor upstream and Phoenix downstream

| Model Year | Manufacturer | Engine Family | Displacement (L) | |
|------------|----------------------------|---------------|------------------|-----|
| 2005 | Cummins | 5CEXL0409AAA | 6.7 | * |
| 2005 | Cummins | 5CEXL0409AAB | 6.7 | * |
| 2005 | Cummins | 5CEXL0409AAC | 6.7 | * |
| 2005 | Cummins | 5CEXL0505AAE | 8.3 | * |
| 2005 | Cummins | 5CEXL0505ABC | 8.3 | * |
| 2005 | Cummins | 5CEXL0505ABD | 8.3 | * |
| 2005 | Cummins | 5CEXL0505ACB | 8.3 | * |
| 2005 | Cummins | 5CEXL0540AAA | 8.8 | * |
| 2005 | Cummins | 5CEXL0540AAB | 8.8 | * |
| 2005 | Cummins | 5CEXL0661AAE | 10.8 | * |
| 2005 | Cummins | 5CEXL0661AAF | 10.8 | * |
| 2005 | Daewoo | 5DWXL05.8COA | 5.8 | * |
| 2005 | Daewoo | 5DWXL08.1CPA | 8.1 | * |
| 2005 | Daewoo | 5DWXL11.1BIA | 11.1 | * |
| 2005 | Daewoo | 5DWXL11.1DJA | 11.1 | * |
| 2005 | DaimlerChrysler | 5MBXL12.0RJB | 12.0 | * |
| 2005 | DaimlerChrysler | 5MBXL12.0RJC | 12.0 | * |
| 2005 | DaimlerChrysler | 5MBXL4.25RJB | 4.3 | * |
| 2005 | DaimlerChrysler | 5MBXL6.37RJB | 6.4 | * |
| 2005 | DaimlerChrysler | 5MBXL7.20RJA | 7.2 | * |
| 2005 | Deere | 5JDXL06.8038 | 6.8 | * |
| 2005 | Deere | 5JDXL06.8039 | 4.5 | 6.8 |
| 2005 | Deere | 5JDXL06.8041 | 4.5 | 6.8 |
| 2005 | Deere | 5JDXL06.8044 | 6.8 | * |
| 2005 | Deere | 5JDXL06.8048 | 6.8 | * |
| 2005 | Deere | 5JDXL06.8049 | 4.5 | 6.8 |
| 2005 | Deere | 5JDXL06.8052 | 6.8 | * |
| 2005 | Deere | 5JDXL06.8053 | 6.8 | * |
| 2005 | Deere | 5JDXL06.8072 | 6.8 | * |
| 2005 | Deere | 5JDXL06.8078 | 4.5 | 6.8 |
| 2005 | Deere | 5JDXL06.8080 | 6.8 | * |
| 2005 | Deere | 5JDXL06.8084 | 4.5 | 6.8 |
| 2005 | Deere | 5JDXL08.1037 | 8.1 | * |
| 2005 | Deere | 5JDXL08.1045 | 8.1 | * |
| 2005 | Deere | 5JDXL08.1058 | 8.1 | * |
| 2005 | Deere | 5JDXL08.1059 | 8.1 | * |
| 2005 | Detroit Diesel Corporation | 5DDXL08.5YJD | 8.5 | * |
| 2005 | Deutz | 5DZXL05.7019 | 3.8 | 5.7 |
| 2005 | Deutz | 5DZXL05.7033 | 5.7 | 3.8 |
| 2005 | Deutz | 5DZXL06.1028 | 4.0 | 6 |
| 2005 | Deutz | 5DZXL06.1038 | 6.1 | 4 |
| 2005 | Deutz | 5DZXL06.5036 | 6.5 | * |
| 2005 | Deutz | 5DZXL06.5037 | 6.5 | * |
| 2005 | Deutz | 5DZXL06.5042 | 6.5 | * |
| 2005 | Deutz | 5DZXL07.1032 | 7.2 | 4.8 |
| 2005 | Deutz | 5DZXL07.1034 | 7.2 | * |
| 2005 | Deutz | 5DZXL15.9002 | 11.9 | * |
| 2005 | International | 5NVXL0365AFA | 6.0 | * |

¹ Do not remove Original Equipment DOC, install BP sensor upstream and Phoenix downstream

| Model Year | Manufacturer | Engine Family | Displacement (L) | |
|------------|-----------------------------|---------------|------------------|-----|
| 2005 | Isuzu | 5SZXL04.3FTA | 4.3 | * |
| 2005 | Isuzu | 5SZXL04.3FXA | 4.3 | * |
| 2005 | Isuzu | 5SZXL06.5EXA | 6.5 | * |
| 2005 | Isuzu | 5SZXL06.5FTA | 6.5 | * |
| 2005 | Isuzu | 5SZXL06.5FXA | 6.5 | * |
| 2005 | Isuzu | 5SZXL06.5FXG | 6.5 | * |
| 2005 | Isuzu | 5SZXL07.8ETA | 7.8 | * |
| 2005 | Isuzu | 5SZXL07.8EXA | 7.8 | * |
| 2005 | Isuzu | 5SZXL09.8EXA | 9.8 | * |
| 2005 | Iveco | 5VEXL05.9DGS | 5.9 | * |
| 2005 | Iveco | 5VEXL06.7DCR | 3.9 | 4.5 |
| 2005 | Iveco | 5VEXL06.7DGA | 6.7 | * |
| 2005 | Iveco | 5VEXL07.8CRS | 7.8 | * |
| 2005 | Iveco | 5VEXL10.3CRS | 10.3 | * |
| 2005 | Iveco | 5VEXL10.3TR3 | 10.3 | * |
| 2005 | Iveco | 5VEXL10.3VGT | 10.3 | * |
| 2005 | Komatsu | 5KLXL0239AAD | 3.9 | * |
| 2005 | Komatsu | 5KLXL0239AAF | 3.9 | * |
| 2005 | Komatsu | 5KLXL0359AAB | 5.9 | * |
| 2005 | Komatsu | 5KLXL0359AAL | 5.9 | * |
| 2005 | Komatsu | 5KLXL0359ABC | 5.9 | * |
| 2005 | Komatsu | 5KLXL0409AAB | 6.7 | * |
| 2005 | Komatsu | 5KLXL0409AAC | 6.7 | * |
| 2005 | Komatsu | 5KLXL0505AAE | 8.3 | * |
| 2005 | Komatsu | 5KLXL0505ABC | 8.3 | * |
| 2005 | Komatsu | 5KLXL0505ABD | 8.3 | * |
| 2005 | Komatsu | 5KLXL11.0DC3 | 11.0 | * |
| 2005 | Komatsu | 5KLXL11.0DD3 | 11.0 | * |
| 2005 | Komatsu | 5KLXL11.0DD5 | 11.0 | * |
| 2005 | Liebherr Machines Bulle SA | 5LHAL10.5LPA | 10.5 | * |
| 2005 | Liebherr Machines Bulle SA | 5LHAL9.96ARA | 6.6 | 10 |
| 2005 | Liebherr Machines Bulle SA | 5LHAL9.96ASA | 6.6 | 10 |
| 2005 | Liebherr Machines Bulle SA | 5LHAL9.96ATA | 6.6 | 10 |
| 2005 | Liebherr Machines Bulle SA | 5LHAL9.96AUA | 6.6 | 10 |
| 2005 | Mitsubishi Fuso | 5MFTL03.9D3A | 3.9 | * |
| 2005 | Mitsubishi Fuso | 5MFTL05.8D3A | 5.9 | * |
| 2005 | Mitsubishi Fuso | 5MFTL05.8D3B | 5.9 | * |
| 2005 | Mitsubishi Fuso | 5MFTL07.5D6A | 7.5 | * |
| 2005 | Mitsubishi Fuso | 5MFTL07.5D6D | 7.5 | * |
| 2005 | Mitsubishi Fuso | 5MFTL07.5D6E | 7.5 | * |
| 2005 | Mitsubishi Fuso | 5MFTL11.9D2A | 11.9 | * |
| 2005 | Mitsubishi Heavy Industries | 5MVXL05.0DDD | 3.3 | 5 |
| 2005 | Mitsubishi Heavy Industries | 5MVXL06.4DDD | 6.4 | * |
| 2005 | Perkins | 5PKXL04.4RH2 | 4.4 | * |
| 2005 | Perkins | 5PKXL04.4RK1 | 4.4 | * |
| 2005 | Perkins | 5PKXL06.0VK1 | 6.0 | * |
| 2005 | Perkins | 5PKXL06.6PJ1 | 6.6 | * |
| 2005 | Perkins | 5PKXL06.6PJ2 | 6.6 | * |

¹ Do not remove Original Equipment DOC, install BP sensor upstream and Phoenix downstream

| Model Year | Manufacturer | Engine Family | Displacement (L) | |
|------------|------------------------------|---------------|------------------|-----|
| 2005 | Sisu Diesel | 5SIDL06.6I2A | 6.6 | * |
| 2005 | Sisu Diesel | 5SIDL07.4G4A | 7.4 | * |
| 2005 | Sisu Diesel | 5SIDL07.4G4B | 7.4 | * |
| 2005 | Sisu Diesel | 5SIDL07.4G5A | 7.4 | * |
| 2005 | Sisu Diesel | 5SIDL07.4G5B | 7.4 | * |
| 2005 | Sisu Diesel | 5SIDL08.4H4A | 8.4 | * |
| 2005 | Sisu Diesel | 5SIDL08.4H5A | 8.4 | * |
| 2005 | Sisu Diesel | 5SIDL08.4H5B | 8.4 | * |
| 2005 | Volvo Construction Equipment | 5V5XL09.4CE2 | 9.4 | * |
| 2005 | Yanmar | 5YDXL4.41K4T | 4.4 | * |
| 2006 | AB Volvo Penta | 6VPXL9.4BAA | 9.4 | * |
| 2006 | Caterpillar | 6CPXL07.2ESL | 7.2 | * |
| 2006 | Caterpillar | 6CPXL07.2HSK | 7.2 | * |
| 2006 | Caterpillar | 6CPXL08.8ESK | 8.8 | * |
| 2006 | Caterpillar | 6CPXL11.1ESK | 11.1 | * |
| 2006 | CNH Engine Corporation | 6X9XL0239AAB | 3.9 | * |
| 2006 | CNH Engine Corporation | 6X9XL0239AAC | 3.9 | * |
| 2006 | CNH Engine Corporation | 6X9XL0359AAM | 5.9 | * |
| 2006 | CNH Engine Corporation | 6X9XL0359ABE | 5.9 | * |
| 2006 | CNH Engine Corporation | 6X9XL0505AAE | 8.3 | * |
| 2006 | CNH Engine Corporation | 6X9XL0505ABD | 8.3 | * |
| 2006 | CNH Engine Corporation | 6X9XL0540AAB | 8.8 | * |
| 2006 | CNH Engine Corporation | 6X9XL0540AAC | 8.8 | * |
| 2006 | CNH UK Limited | 6NHXL06.7DCA | 6.7 | * |
| 2006 | CNH UK Limited | 6NHXL06.7DCB | 6.7 | * |
| 2006 | CNH UK Limited | 6NHXL06.7DCC | 6.7 | * |
| 2006 | CNH UK Limited | 6NHXL06.7DCR | 3.9 | 4.5 |
| 2006 | CNH UK Limited | 6NHXL07.5B2H | 7.5 | * |
| 2006 | Cummins | 6CEXL0239AAD | 3.9 | * |
| 2006 | Cummins | 6CEXL0239AAF | 3.9 | * |
| 2006 | Cummins | 6CEXL0275AAB | 4.5 | * |
| 2006 | Cummins | 6CEXL0275AAG | 4.5 | * |
| 2006 | Cummins | 6CEXL0359AAB | 5.9 | * |
| 2006 | Cummins | 6CEXL0359AAC | 5.9 | * |
| 2006 | Cummins | 6CEXL0359AAD | 5.9 | * |
| 2006 | Cummins | 6CEXL0359AAF | 5.9 | * |
| 2006 | Cummins | 6CEXL0359AAN | 5.9 | * |
| 2006 | Cummins | 6CEXL0359ABC | 5.9 | * |
| 2006 | Cummins | 6CEXL0359ABE | 5.9 | * |
| 2006 | Cummins | 6CEXL0409AAB | 6.7 | * |
| 2006 | Cummins | 6CEXL0409AAC | 6.7 | * |
| 2006 | Cummins | 6CEXL0505AAE | 8.3 | * |
| 2006 | Cummins | 6CEXL0505ABD | 8.3 | * |
| 2006 | Cummins | 6CEXL0540AAB | 8.8 | * |
| 2006 | Cummins | 6CEXL0661AAF | 10.8 | * |
| 2006 | DaimlerChrysler | 6MBXL4.25RJB | 4.3 | * |
| 2006 | DaimlerChrysler | 6MBXL7.20RJA | 4.3 | 7.2 |
| 2006 | Deere | 6JDXL06.8038 | 6.8 | * |

¹ Do not remove Original Equipment DOC, install BP sensor upstream and Phoenix downstream

| Model Year | Manufacturer | Engine Family | Displacement (L) | |
|------------|-------------------|---------------|------------------|-----|
| 2006 | Deere | 6JDXL06.8039 | 4.5 | 6.8 |
| 2006 | Deere | 6JDXL06.8041 | 4.5 | 6.8 |
| 2006 | Deere | 6JDXL06.8044 | 6.8 | * |
| 2006 | Deere | 6JDXL06.8048 | 6.8 | * |
| 2006 | Deere | 6JDXL06.8049 | 4.5 | 6.8 |
| 2006 | Deere | 6JDXL06.8052 | 6.8 | * |
| 2006 | Deere | 6JDXL06.8078 | 4.5 | 6.8 |
| 2006 | Deere | 6JDXL06.8080 | 6.8 | * |
| 2006 | Deere | 6JDXL06.8084 | 4.5 | 6.8 |
| 2006 | Deere | 6JDXL06.8104 | 6.8 | * |
| 2006 | Deere | 6JDXL06.8105 | 4.5 | 6.8 |
| 2006 | Deere | 6JDXL08.1037 | 8.1 | * |
| 2006 | Deutz | 6DZXL05.7019 | 3.8 | 5.7 |
| 2006 | Deutz | 6DZXL05.7033 | 5.7 | 3.8 |
| 2006 | Deutz | 6DZXL06.1028 | 6.1 | 4 |
| 2006 | Deutz | 6DZXL06.1038 | 6.1 | 4 |
| 2006 | Deutz | 6DZXL06.1061 | 6.1 | * |
| 2006 | Deutz | 6DZXL06.5035 | 6.5 | * |
| 2006 | Deutz | 6DZXL06.5036 | 6.5 | * |
| 2006 | Deutz | 6DZXL06.5037 | 6.5 | * |
| 2006 | Deutz | 6DZXL06.5042 | 6.5 | * |
| 2006 | Deutz | 6DZXL07.1034 | 7.2 | * |
| 2006 | Deutz | 6DZXL07.1053 | 7.1 | * |
| 2006 | Doosan Infracore | 6DWXL05.8COA | 5.8 | * |
| 2006 | Doosan Infracore | 6DWXL05.8UTA | 5.8 | * |
| 2006 | Doosan Infracore | 6DWXL07.6UPA | 7.6 | * |
| 2006 | Doosan Infracore | 6DWXL08.1BDA | 8.1 | * |
| 2006 | Doosan Infracore | 6DWXL11.0UJA | 11.0 | * |
| 2006 | Isuzu | 6SZXL04.3FTA | 4.3 | * |
| 2006 | Isuzu | 6SZXL04.3FXA | 4.3 | * |
| 2006 | Isuzu | 6SZXL06.5FTA | 6.5 | * |
| 2006 | Isuzu | 6SZXL06.5FXA | 6.5 | * |
| 2006 | Isuzu | 6SZXL06.5FXG | 6.5 | * |
| 2006 | Iveco | 6VEXL06.7DCA | 6.7 | * |
| 2006 | Iveco | 6VEXL06.7DCB | 6.7 | * |
| 2006 | Iveco | 6VEXL06.7DCC | 6.7 | * |
| 2006 | Iveco | 6VEXL06.7DCR | 3.9 | 4.5 |
| 2006 | Iveco | 6VEXL06.7DGA | 6.7 | * |
| 2006 | Iveco | 6VEXL06.7DGB | 6.7 | * |
| 2006 | Iveco | 6VEXL06.7DGS | 6.7 | * |
| 2006 | Iveco | 6VEXL08.7TR3 | 8.7 | * |
| 2006 | Iveco | 6VEXL10.3MLR | 10.3 | * |
| 2006 | Iveco | 6VEXL10.3TR3 | 10.3 | * |
| 2006 | JCB Power Systems | 6JCBL04.4TA1 | 4.4 | * |
| 2006 | Komatsu | 6KLXL0239AAD | 3.9 | * |
| 2006 | Komatsu | 6KLXL0239AAF | 3.9 | * |
| 2006 | Komatsu | 6KLXL0275AAG | 4.5 | * |
| 2006 | Komatsu | 6KLXL0359AAB | 5.9 | * |

¹ Do not remove Original Equipment DOC, install BP sensor upstream and Phoenix downstream

| Model Year | Manufacturer | Engine Family | Displacement (L) | |
|------------|-----------------------------|---------------|------------------|-----|
| 2006 | Komatsu | 6KLXL0359AAL | 5.9 | * |
| 2006 | Komatsu | 6KLXL0359ABC | 5.9 | * |
| 2006 | Komatsu | 6KLXL0409AAB | 6.7 | * |
| 2006 | Komatsu | 6KLXL0409AAC | 6.7 | * |
| 2006 | Komatsu | 6KLXL0505AAE | 8.3 | * |
| 2006 | Komatsu | 6KLXL0505ABD | 8.3 | * |
| 2006 | Liebherr Machines Bulle SA | 6LHAK9.96ASA | 6.6 | 10 |
| 2006 | Liebherr Machines Bulle SA | 6LHAL10.5LPA | 10.5 | * |
| 2006 | Liebherr Machines Bulle SA | 6LHAL12.0KPA | 12.0 | * |
| 2006 | Liebherr Machines Bulle SA | 6LHAL9.54SPA | 9.5 | * |
| 2006 | Liebherr Machines Bulle SA | 6LHAL9.96ARA | 6.6 | 10 |
| 2006 | Liebherr Machines Bulle SA | 6LHAL9.96ATA | 6.6 | 10 |
| 2006 | Mitsubishi Fuso | 6MFTL03.9D3A | 3.9 | * |
| 2006 | Mitsubishi Fuso | 6MFTL05.8D3A | 5.9 | * |
| 2006 | Mitsubishi Fuso | 6MFTL07.5D6E | 7.5 | * |
| 2006 | Mitsubishi Heavy Industries | 6MVXL05.0DDD | 3.3 | 5 |
| 2006 | Mitsubishi Heavy Industries | 6MVXL06.4DDD | 6.4 | * |
| 2006 | Mitsubishi Heavy Industries | 6MVXL06.4EEE | 6.4 | * |
| 2006 | Perkins | 6PKXL04.4NH1 | 4.4 | * |
| 2006 | Perkins | 6PKXL04.4NJ1 | 4.4 | * |
| 2006 | Perkins | 6PKXL04.4RH2 | 4.4 | * |
| 2006 | Perkins | 6PKXL04.4RK1 | 4.4 | * |
| 2006 | Perkins | 6PKXL06.0VK1 | 6.0 | * |
| 2006 | Perkins | 6PKXL06.6PJ1 | 6.6 | * |
| 2006 | Perkins | 6PKXL06.6PJ2 | 6.6 | * |
| 2006 | Sisu Diesel | 6SIDL06.6I2A | 6.6 | * |
| 2006 | Sisu Diesel | 6SIDL07.4G4B | 7.4 | * |
| 2006 | Sisu Diesel | 6SIDL07.4G4D | 7.4 | * |
| 2006 | Sisu Diesel | 6SIDL07.4G5B | 7.4 | * |
| 2006 | Sisu Diesel | 6SIDL08.4H5B | 8.4 | * |
| 2006 | Yanmar | 6YDXL4.41K4T | 4.4 | * |
| 2007 | Caterpillar | 7CPXL07.2ESL | 7.2 | * |
| 2007 | Caterpillar | 7CPXL08.8ESK | 8.8 | * |
| 2007 | Caterpillar | 7CPXL11.1ESK | 11.1 | * |
| 2007 | CNH Engine Corporation | 7X9XL0239AAB | 3.9 | * |
| 2007 | CNH Engine Corporation | 7X9XL0505AAE | 8.3 | * |
| 2007 | CNH Engine Corporation | 7X9XL0540AAB | 8.8 | * |
| 2007 | CNH UK Limited | 7NHXL06.7DTA | 4.5 | 6.7 |
| 2007 | Cummins | 7CEXL0275AAB | 4.5 | * |
| 2007 | Cummins | 7CEXL0275AAG | 4.5 | * |
| 2007 | Cummins | 7CEXL0275AAK | 4.5 | * |
| 2007 | Cummins | 7CEXL0409AAB | 6.7 | * |
| 2007 | Cummins | 7CEXL0409AAC | 6.7 | * |
| 2007 | Cummins | 7CEXL0409AAD | 6.7 | * |
| 2007 | Cummins | 7CEXL0505AAE | 8.3 | * |
| 2007 | Cummins | 7CEXL0540AAB | 8.8 | * |
| 2007 | Cummins | 7CEXL0661AAF | 11.0 | * |
| 2007 | Cummins | 7CEXL0661AAJ | 10.8 | * |

¹ Do not remove Original Equipment DOC, install BP sensor upstream and Phoenix downstream

| Model Year | Manufacturer | Engine Family | Displacement (L) | |
|------------|-----------------------------|---------------|------------------|-----|
| 2007 | DaimlerChrysler | 7MBXL15.9RJA | 12.0 | * |
| 2007 | Deere | 7JDXL06.8038 | 6.8 | * |
| 2007 | Deere | 7JDXL06.8039 | 4.5 | 6.8 |
| 2007 | Deere | 7JDXL06.8041 | 4.5 | 6.8 |
| 2007 | Deere | 7JDXL06.8044 | 6.8 | * |
| 2007 | Deere | 7JDXL06.8048 | 6.8 | * |
| 2007 | Deere | 7JDXL06.8049 | 6.8 | * |
| 2007 | Deere | 7JDXL06.8078 | 4.5 | 6.8 |
| 2007 | Deere | 7JDXL06.8080 | 6.8 | * |
| 2007 | Deere | 7JDXL06.8084 | 4.5 | * |
| 2007 | Deere | 7JDXL06.8104 | 6.8 | * |
| 2007 | Deere | 7JDXL06.8105 | 4.5 | 6.8 |
| 2007 | Deere | 7JDXL08.1037 | 8.1 | * |
| 2007 | Deutz | 7DZXL06.1038 | 6.1 | 4 |
| 2007 | Deutz | 7DZXL06.1063 | 5.7 | * |
| 2007 | Deutz | 7DZXL06.5042 | 6.5 | 5.4 |
| 2007 | Deutz | 7DZXL06.5043 | 6.5 | 5.4 |
| 2007 | Deutz | 7DZXL07.1034 | 7.2 | * |
| 2007 | Doosan Infracore | 7DWXL05.8UTA | 5.9 | * |
| 2007 | Doosan Infracore | 7DWXL07.6UPA | 7.6 | * |
| 2007 | Doosan Infracore | 7DWXL11.0UJA | 11.0 | * |
| 2007 | Iveco | 7VEXL06.7DGB | 4.5 | 6.7 |
| 2007 | Iveco | 7VEXL06.7DGS | 6.7 | * |
| 2007 | Iveco | 7VEXL06.7DTA | 4.5 | 6.7 |
| 2007 | Iveco | 7VEXL10.3MLR | 10.3 | * |
| 2007 | Komatsu | 7KLXL0275AAG | 4.5 | * |
| 2007 | Komatsu | 7KLXL0409AAB | 6.7 | * |
| 2007 | Komatsu | 7KLXL0409AAC | 6.7 | * |
| 2007 | Komatsu | 7KLXL0505AAE | 8.3 | * |
| 2007 | Liebherr Machines Bulle SA | 7LHAL10.5LPA | 10.5 | * |
| 2007 | Liebherr Machines Bulle SA | 7LHAL12.0KPA | 12.0 | * |
| 2007 | Liebherr Machines Bulle SA | 7LHAL9.54SPA | 9.5 | * |
| 2007 | Mitsubishi Heavy Industries | 7MVXL06.4FFF | 6.4 | * |
| 2007 | Perkins | 7PKXL04.4NH1 | 4.4 | * |
| 2007 | Perkins | 7PKXL04.4NJ1 | 4.4 | * |
| 2007 | Perkins | 7PKXL06.6PJ1 | 6.6 | * |
| 2007 | Perkins | 7PKXL06.6PJ2 | 6.6 | * |
| 2007 | Sisu Diesel | 7SIDL07.4G4D | 7.4 | * |
| 2007 | Sisu Diesel | 7SIDL07.4G5B | 7.4 | * |
| 2007 | Sisu Diesel | 7SIDL08.4H5B | 8.4 | * |
| 2007 | Yanmar | 7YDXL4.41K4T | 4.4 | * |
| 2008 | Caterpillar | 8CPXL07.2ESL | 7.2 | * |
| 2008 | Caterpillar | 8CPXL08.8ESK | 8.8 | * |
| 2008 | Caterpillar | 8CPXL11.1ESK | 11.1 | * |
| 2008 | CNH Engine Corporation | 8X9XL0505AAE | 8.3 | * |
| 2008 | CNH Engine Corporation | 8X9XL0540AAB | 8.8 | * |
| 2008 | CNH Engine Corporation | 8X9XL0540AAC | 8.8 | * |
| 2008 | CNH Engine Corporation | 8X9XL0540AAD | 8.8 | * |

¹ Do not remove Original Equipment DOC, install BP sensor upstream and Phoenix downstream

| Model Year | Manufacturer | Engine Family | Displacement (L) | |
|------------|-----------------------------|---------------|------------------|------|
| 2008 | Cummins | 8CEXL0275AAG | 4.5 | * |
| 2008 | Cummins | 8CEXL0275AAK | 4.5 | * |
| 2008 | Cummins | 8CEXL0409AAB | 6.7 | * |
| 2008 | Cummins | 8CEXL0409AAC | 6.7 | * |
| 2008 | Cummins | 8CEXL0409AAD | 6.7 | * |
| 2008 | Cummins | 8CEXL0505AAE | 8.3 | * |
| 2008 | Cummins | 8CEXL0540AAB | 8.8 | * |
| 2008 | Cummins | 8CEXL0661AAF | 11.0 | * |
| 2008 | Cummins | 8CEXL0661AAJ | 11.0 | * |
| 2008 | DaimlerChrysler | 8MBXL15.9RJA | 12.0 | * |
| 2008 | Deere | 8JDXL06.8038 | 6.8 | * |
| 2008 | Deere | 8JDXL06.8039 | 4.5 | * |
| 2008 | Deere | 8JDXL06.8041 | 4.5 | 6.8 |
| 2008 | Deere | 8JDXL06.8049 | 6.8 | * |
| 2008 | Deere | 8JDXL06.8078 | 4.5 | 6.8 |
| 2008 | Deere | 8JDXL06.8080 | 6.8 | * |
| 2008 | Deere | 8JDXL06.8104 | 4.5 | 6.8 |
| 2008 | Deere | 8JDXL06.8105 | 4.5 | 6.8 |
| 2008 | Deere | 8JDXL08.1037 | 8.1 | * |
| 2008 | Deere | 8JDXL09.0114 | 9.0 | * |
| 2008 | Deutz | 8DZXL06.1063 | 5.7 | 6.1 |
| 2008 | Doosan Infracore | 8DWXL05.8UTA | 5.9 | * |
| 2008 | Doosan Infracore | 8DWXL07.6UPA | 7.6 | * |
| 2008 | Doosan Infracore | 8DWXL11.0UJA | 11.0 | * |
| 2008 | Iveco | 8VEXL06.7DGB | 4.5 | 6.7 |
| 2008 | Iveco | 8VEXL06.7DGS | 6.7 | * |
| 2008 | Iveco | 8VEXL10.3MLR | 10.3 | * |
| 2008 | Komatsu | 8KLXL0275AAG | 4.5 | * |
| 2008 | Komatsu | 8KLXL0409AAB | 6.7 | * |
| 2008 | Komatsu | 8KLXL0409AAC | 6.7 | * |
| 2008 | Komatsu | 8KLXL0505AAE | 8.3 | * |
| 2008 | Liebherr Machines Bulle SA | 8LHAL10.5LPA | 10.5 | * |
| 2008 | Liebherr Machines Bulle SA | 8LHAL12.0KPA | 12.0 | * |
| 2008 | Liebherr Machines Bulle SA | 8LHAL9.54SPA | 9.5 | * |
| 2008 | Mitsubishi Heavy Industries | 8MVXL06.4FFF | 6.4 | 4.2 |
| 2008 | Perkins | 8PKXL04.4NH1 | 4.4 | * |
| 2008 | Perkins | 8PKXL04.4NJ1 | 4.4 | * |
| 2008 | Perkins | 8PKXL04.4NM1 | 4.4 | * |
| 2008 | Perkins | 8PKXL06.6PJ1 | 6.6 | * |
| 2008 | Perkins | 8PKXL06.6PJ2 | 6.6 | * |
| 2008 | Scania | 8Y9XL11.7BBA | 8.9 | 11.7 |
| 2008 | Scania | 8Y9XL11.7BBB | 11.7 | 8.9 |
| 2009 | Caterpillar | 9CPXL07.2ESL | 7.2 | * |
| 2009 | Caterpillar | 9CPXL08.8ESK | 8.8 | * |
| 2009 | Caterpillar | 9CPXL11.1ESK | 11.1 | * |
| 2009 | Cummins | 9CEXL0275AAG | 4.5 | * |
| 2009 | Cummins | 9CEXL0275AAK | 4.5 | * |
| 2009 | Cummins | 9CEXL0409AAB | 6.7 | * |

¹ Do not remove Original Equipment DOC, install BP sensor upstream and Phoenix downstream

| Model Year | Manufacturer | Engine Family | Displacement (L) | |
|------------|-----------------------------|---------------|------------------|-----|
| 2009 | Cummins | 9CEXL0409AAC | 6.7 | * |
| 2009 | Cummins | 9CEXL0409AAD | 6.7 | * |
| 2009 | Cummins | 9CEXL0505AAE | 8.3 | * |
| 2009 | Cummins | 9CEXL0540AAB | 8.8 | * |
| 2009 | Cummins | 9CEXL0540AAD | 8.8 | * |
| 2009 | Cummins | 9CEXL0661AAF | 11.0 | * |
| 2009 | Cummins | 9CEXL0661AAJ | 11.0 | * |
| 2009 | DaimlerChrysler | 9MBXL07.2RJA | 7.2 | 6.4 |
| 2009 | Deere | 9JDXL06.8049 | 6.8 | * |
| 2009 | Deere | 9JDXL06.8078 | 4.5 | * |
| 2009 | Deere | 9JDXL06.8080 | 6.8 | * |
| 2009 | Deere | 9JDXL06.8104 | 6.8 | * |
| 2009 | Deere | 9JDXL06.8105 | 6.8 | 4.5 |
| 2009 | Deere | 9JDXL06.8117 | 6.8 | 4.5 |
| 2009 | Deere | 9JDXL08.1037 | 8.1 | * |
| 2009 | Deere | 9JDXL09.0114 | 9.0 | * |
| 2009 | Deutz | 9DZXL06.1063 | 5.7 | * |
| 2009 | Doosan Infracore | 9DICL05.8UTA | 5.9 | * |
| 2009 | Doosan Infracore | 9DICL07.6UPA | 7.6 | * |
| 2009 | Doosan Infracore | 9DICL11.0UJA | 11.0 | * |
| 2009 | Iveco | 9VEXL06.7DGB | 6.7 | 4.5 |
| 2009 | Iveco | 9VEXL06.7DGS | 6.7 | * |
| 2009 | Iveco | 9VEXL10.3MLR | 10.3 | * |
| 2009 | Komatsu | 9KLXL0275AAG | 4.5 | * |
| 2009 | Komatsu | 9KLXL0409AAB | 6.7 | * |
| 2009 | Komatsu | 9KLXL0409AAC | 6.7 | * |
| 2009 | Komatsu | 9KLXL0505AAE | 8.3 | * |
| 2009 | Liebherr Machines Bulle SA | 9LHAL10.5LPA | 10.5 | * |
| 2009 | Liebherr Machines Bulle SA | 9LHAL12.0KPA | 12.0 | * |
| 2009 | Liebherr Machines Bulle SA | 9LHAL9.54SPA | 9.5 | * |
| 2009 | Mitsubishi Heavy Industries | 9MVXL06.4FFF | 6.4 | 4.2 |
| 2009 | Perkins | 9PKXL04.4NJ1 | 4.4 | * |
| 2009 | Perkins | 9PKXL04.4NM1 | 4.4 | * |
| 2009 | Perkins | 9PKXL04.4NM2 | 4.4 | * |
| 2009 | Perkins | 9PKXL04.4RG3 | 4.4 | * |
| 2009 | Perkins | 9PKXL04.4RJ3 | 4.4 | * |
| 2009 | Perkins | 9PKXL06.6PJ1 | 6.6 | * |
| 2009 | Perkins | 9PKXL06.6PJ2 | 6.6 | * |
| 2009 | Scania | 9Y9XL11.7BBA | 11.7 | 8.9 |
| 2009 | Scania | 9Y9XL11.7BBB | 11.7 | 8.9 |
| 2009 | Sisu Diesel | 9SIDL07.4G4D | 7.4 | 6.6 |
| 2009 | Sisu Diesel | 9SIDL07.4G5B | 7.4 | 6.6 |
| 2009 | Sisu Diesel | 9SIDL08.4H5B | 8.4 | * |
| 2010 | AGCO SISU Power Inc. | ASIDL07.4G4D | 7.4 | 6.6 |
| 2010 | AGCO SISU Power Inc. | ASIDL07.4G4E | 7.4 | 6.6 |
| 2010 | AGCO SISU Power Inc. | ASIDL07.4G5B | 7.4 | 6.6 |
| 2010 | AGCO SISU Power Inc. | ASIDL07.4G5C | 7.4 | 6.6 |
| 2010 | AGCO SISU Power Inc. | ASIDL08.4H5B | 8.4 | * |

¹ Do not remove Original Equipment DOC, install BP sensor upstream and Phoenix downstream

| Model Year | Manufacturer | Engine Family | Displacement (L) | |
|------------|-----------------------------|---------------|------------------|------|
| 2010 | Caterpillar | ACPXL07.2ESL | 7.2 | * |
| 2010 | Caterpillar | ACPXL08.8ESK | 8.8 | * |
| 2010 | Caterpillar | ACPXL08.8ESL | 8.8 | * |
| 2010 | Caterpillar | ACPXL08.8ESX | 8.8 | * |
| 2010 | Caterpillar | ACPXL10.3ESL | 10.3 | * |
| 2010 | Caterpillar | ACPXL11.1ESK | 11.1 | * |
| 2010 | CNH UK Limited | ANHXL06.7DCB | 6.7 | * |
| 2010 | Cummins | ACEXL0275AAG | 4.5 | * |
| 2010 | Cummins | ACEXL0275AAK | 4.5 | * |
| 2010 | Cummins | ACEXL0409AAB | 6.7 | * |
| 2010 | Cummins | ACEXL0409AAC | 6.7 | * |
| 2010 | Cummins | ACEXL0409AAD | 6.7 | * |
| 2010 | Cummins | ACEXL0505AAE | 8.3 | * |
| 2010 | Cummins | ACEXL0540AAB | 8.8 | * |
| 2010 | Cummins | ACEXL0540AAC | 8.8 | * |
| 2010 | Cummins | ACEXL0540AAD | 8.8 | * |
| 2010 | Cummins | ACEXL0661AAF | 11.0 | * |
| 2010 | Cummins | ACEXL0661AAJ | 11.0 | * |
| 2010 | DaimlerChrysler | AMBXL07.2RJA | 7.2 | 6.37 |
| 2010 | DaimlerChrysler | AMBXL15.9RJA | 12.0 | * |
| 2010 | Deere | AJDXL06.8049 | 6.8 | * |
| 2010 | Deere | AJDXL06.8078 | 4.5 | * |
| 2010 | Deere | AJDXL06.8080 | 6.8 | * |
| 2010 | Deere | AJDXL06.8104 | 6.8 | 4.5 |
| 2010 | Deere | AJDXL06.8105 | 6.8 | 4.5 |
| 2010 | Deere | AJDXL06.8117 | 6.8 | 4.5 |
| 2010 | Deere | AJDXL08.1037 | 8.1 | * |
| 2010 | Deere | AJDXL09.0098 | 9.0 | * |
| 2010 | Deere | AJDXL09.0114 | 9.0 | * |
| 2010 | Deere | AJDXL09.0901 | 6.8 | 9 |
| 2010 | Doosan Infracore | ADICL05.8UTA | 5.9 | * |
| 2010 | Doosan Infracore | ADICL07.6UPA | 7.6 | * |
| 2010 | Doosan Infracore | ADICL11.0UJA | 11.0 | * |
| 2010 | Iveco SPA | AVEXL06.7DGB | 4.5 | 6.7 |
| 2010 | Iveco SPA | AVEXL06.7DGS | 6.7 | * |
| 2010 | Iveco SPA | AVEXL10.3MLR | 10.3 | * |
| 2010 | Komatsu | AKLXL0275AAG | 4.5 | * |
| 2010 | Komatsu | AKLXL0409AAB | 6.7 | * |
| 2010 | Komatsu | AKLXL0409AAC | 6.7 | * |
| 2010 | Komatsu | AKLXL0505AAE | 8.3 | * |
| 2010 | Liebherr Machines Bulle SA | ALHAL10.5LPA | 11.0 | * |
| 2010 | Liebherr Machines Bulle SA | ALHAL12.0KPA | 12.0 | * |
| 2010 | Liebherr Machines Bulle SA | ALHAL9.54SPA | 10.0 | * |
| 2010 | Mitsubishi Heavy Industries | AMVXL06.4FFF | 6.4 | 4.2 |
| 2010 | Navistar | ANVXL04660FA | 7.6 | * |
| 2010 | Perkins | APKXL04.4NJ1 | 4.4 | * |
| 2010 | Perkins | APKXL04.4NM1 | 4.4 | * |
| 2010 | Perkins | APKXL04.4NM2 | 4.4 | * |

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| Model Year | Manufacturer | Engine Family | Displacement (L) | |
|------------|-----------------------------|---------------|------------------|-----|
| 2010 | Perkins | APKXL04.4RG3 | 4.4 | * |
| 2010 | Perkins | APKXL04.4RJ3 | 4.4 | * |
| 2010 | Perkins | APKXL06.6PJ1 | 6.6 | * |
| 2010 | Perkins | APKXL06.6PJ2 | 6.6 | * |
| 2010 | Scania AB | AY9XL11.7BBA | 11.7 | 8.9 |
| 2010 | Scania AB | AY9XL11.7BBB | 11.7 | 8.9 |
| 2011 | AGCO SISU Power Inc. | BSIDL07.4G4E | 7.4 | 6.6 |
| 2011 | AGCO SISU Power Inc. | BSIDL07.4G5C | 7.4 | 6.6 |
| 2011 | Caterpillar | BCPXL11.1ESK | 11.1 | * |
| 2011 | Cummins | BCEXL0275AAG | 4.5 | * |
| 2011 | Cummins | BCEXL0409AAC | 6.7 | * |
| 2011 | Deere | BJDXL06.8078 | 6.8 | 4.5 |
| 2011 | Deere | BJDXL06.8104 | 6.8 | * |
| 2011 | Deere | BJDXL06.8105 | 6.8 | 4.5 |
| 2011 | Deere | BJDXL06.8117 | 6.8 | 4.5 |
| 2011 | Doosan Infracore | BDICL05.8UTA | 5.9 | * |
| 2011 | Iseki Matsuyama | BICLL3.37D4I | 3.4 | * |
| 2011 | Komatsu | BKLXL0275AAG | 4.5 | * |
| 2011 | Komatsu | BKLXL0409AAC | 6.7 | * |
| 2011 | Mitsubishi Heavy Industries | BMVXL06.4FFF | 6.4 | 4.2 |
| 2011 | Perkins | BPKXL04.4NJ1 | 4.4 | * |
| 2011 | Perkins | BPKXL04.4NM1 | 4.4 | * |
| 2011 | Perkins | BPKXL04.4NM2 | 4.4 | * |
| 2011 | Perkins | BPKXL04.4RG3 | 4.4 | * |
| 2011 | Perkins | BPKXL04.4RJ3 | 4.4 | * |
| 2011 | Perkins | BPKXL06.6PJ2 | 6.6 | * |
| 2011 | Perkins | BPKXL06.6PJ3 | 6.6 | * |
| 2012 | Caterpillar | CCPXL07.2ESJ | 7.2 | * |
| 2012 | Caterpillar | CCPXL08.8ESJ | 8.8 | * |
| 2012 | Caterpillar | CCPXL11.1ESJ | 11.1 | * |
| 2012 | Caterpillar | CCPXL11.1ESK | 11.1 | * |
| 2012 | Deere | CJDXL06.8117 | 4.5 | 6.8 |
| 2012 | Perkins | CPKXL06.6PJ3 | 6.6 | * |
| 2013 | Caterpillar | DCPXL07.2ESJ | 7.2 | * |
| 2013 | Caterpillar | DCPXL08.8ESJ | 8.8 | * |
| 2013 | Caterpillar | DCPXL11.1ESJ | 11.1 | * |
| 2013 | John Deere Power Systems | DJDXL06.8104 | 6.8 | * |
| 2013 | John Deere Power Systems | DJDXL06.8105 | 6.5 | 4.5 |
| 2013 | Perkins | DPKXL06.6PJ3 | 6.6 | * |
| 2014 | Perkins | EPKXL04.4NJ3 | 4.4 | * |

Disclaimer: This engine family list is provided for your convenience. Although every effort has been made to ensure accuracy, we recommend that for compliance purposes you consult the official CARB engine family list available at the CARB website.

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