

# Rypos L2+ RTG Crane Verification

## Model Year 1996 Engines

| <b>Manufacturer</b> | <b>Engine Families</b> |
|---------------------|------------------------|
| Caterpillar         | TCP14.RZDBRK           |
| Caterpillar         | TCP10.RZDBRD           |
| Deutz AG            | TDZ16.RGDARA           |
| Deutz AG            | TDZ16.RGDARB           |
| Deutz AG            | TDZ7.1R6DARA           |
| Deutz AG            | TDZ7.1R6DARB           |
| Generac             | TGN13.R6DARA           |
| Komatsu             | TKL11.RZDARB           |
| Navistar            | TNV466R6DARA           |
| Navistar            | TNV466R6DARB           |
| Navistar            | TNV466R6DASC           |
| Navistar            | TNV466R6DASD           |
| Navistar            | TNV530R6DARA           |
| Navistar            | TNV530R6DARB           |
| Navistar            | TNV530R6DASD           |
| Navistar            | TNV530R8DASC           |

## Model Year 1997 Engines

| <b>Manufacturer</b> | <b>Engine Families</b> |
|---------------------|------------------------|
| Caterpillar         | VCP10.RZDARD           |
| Caterpillar         | VCP14.RZDARK           |
| Deere               | VJD10.RJDBRB           |
| Deere               | VJD6.8R6DBRA           |
| Deere               | VJD8.1R6DBRA           |
| Deere               | VJD8.1RBDRB            |
| Deutz AG            | VDZ16.RGDARA           |
| Deutz AG            | VDZ16.RGDARB           |
| Deutz AG            | VDZ7.1R6DARA           |
| Deutz AG            | VDZ7.1R6DARB           |
| Generac             | VGN13.R6DARA           |

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|----------|--------------|
| Navistar | VNV466R6DASC |
| Navistar | VNV466R6DASD |
| Navistar | VNV530R6DARB |
| Navistar | VNV530R6DASC |
| Navistar | VNV530R6DASD |

Model Year 1998 Engines

| <b>Manufacturer</b>        | <b>Engine Families</b> |
|----------------------------|------------------------|
| AB Volvo Penta             | WVPXL09.6ACB           |
| AB Volvo Penta             | WVPXL12.0ACB           |
| Case                       | WX9XL0239ACA           |
| Case                       | WX9XL0359ABA           |
| Case                       | WX9XL0505ABA           |
| Case                       | WX9XL0505ABB           |
| Case                       | WX9XL0505ACA           |
| Caterpillar                | WCPXL07.0MRB           |
| Caterpillar                | WCPXL10.5MRD           |
| Caterpillar                | WCPXL10.5MRG           |
| Caterpillar                | WCPXL14.6ERK           |
| Caterpillar                | WCPXL14.6MRJ           |
| Cummins                    | WCEXL019.AAA           |
| Cummins                    | WCEXL0359ABA           |
| Cummins                    | WCEXL0359ABB           |
| Cummins                    | WCEXL0505ABA           |
| Cummins                    | WCEXL0505ABB           |
| Cummins                    | WCEXL0505ACA           |
| Cummins                    | WCEXL0661AAA           |
| Cummins                    | WCEXL0855AAA           |
| Cummins                    | WCEXL0855AAB           |
| Daewoo                     | WDWXL11.1BHT           |
| Daewoo                     | WDWXL11.1BIA           |
| Detroit Diesel Corporation | VDDXL08.5TJD           |
| Detroit Diesel Corporation | WDDXL09.0TFE           |
| Detroit Diesel Corporation | WDDXL11.1THD           |
| Detroit Diesel Corporation | WDDXL12.1TFE           |
| Detroit Diesel Corporation | WDDXL12.1TFM           |
| Detroit Diesel Corporation | WDDXL12.7TGD           |

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|----------------------------|--------------|
| Detroit Diesel Corporation | WDDXL15.9TRE |
| Detroit Diesel Corporation | WDDXL23.9TRE |
| Deere                      | WJDXL06.8012 |
| Deere                      | WJDXL08.1007 |
| Deere                      | WJDXL08.1008 |
| Deere                      | WJDXL08.1009 |
| Deere                      | WJDXL10.5003 |
| Deutz AG                   | WDZXL07.1003 |
| Deutz AG                   | WDZXL07.1004 |
| Deutz AG                   | WDZXL15.9001 |
| Deutz AG                   | WDZXL15.9002 |
| GMC                        | WGNXL13.3HTA |
| ISUZU                      | WSZXL06.4DTA |
| Komatsu                    | WKDXL0239AAA |
| Komatsu                    | WKDXL0359ABA |
| Komatsu                    | WKLXL11.0DB1 |
| Komatsu                    | WKLXL11.0DC1 |
| Komatsu                    | WKLXL15.2EB1 |
| Komatsu                    | WKLXL23.2FC1 |
| Komatsu                    | WKLXL7.15CB1 |
| Komatsu                    | WKLXL7.15CC1 |
| MTU                        | WMUXL12.0G2V |
| Navistar                   | WNVXL0530BNB |
| Navistar                   | WNVXL0530BND |

Model Year 1999 Engines

| <b>Manufacturer</b> | <b>Engine Families</b> |
|---------------------|------------------------|
| AB Volvo Penta      | XVPXL07.3ABB           |
| AB Volvo Penta      | XVPXL07.3ACB           |
| AB Volvo Penta      | XVPXL09.6ACB           |
| AB Volvo Penta      | XVPXL12.0ACB           |
| Case                | XX9XL0239ACA           |
| Case                | XX9XL0359ABA           |
| Case                | XX9XL0505ABA           |
| Case                | XX9XL0505ABB           |
| Case                | XX9XL0505ACA           |

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|----------------------------|--------------|
| Caterpillar                | XCPXL07.0MRB |
| Caterpillar                | XCPXL10.5MRD |
| Caterpillar                | XCPXL10.5MRG |
| Caterpillar                | XCPXL14.6ERK |
| Cummins                    | XCEXL019.AAA |
| Cummins                    | XCEXL0359ABA |
| Cummins                    | XCEXL0505ABA |
| Cummins                    | XCEXL0505ABB |
| Cummins                    | XCEXL0505ACA |
| Cummins                    | XCEXL0661AAA |
| Cummins                    | XCEXL0855AAA |
| Cummins                    | XCEXL0855AAB |
| Daewoo                     | XDWXL03.3AMN |
| Daewoo                     | XDWXL03.3BMN |
| Daewoo                     | XDWXL03.3LMN |
| Daewoo                     | XDWXL05.8AOA |
| Daewoo                     | XDWXL05.8ARN |
| Daewoo                     | XDWXL05.8ATT |
| Daewoo                     | XDWXL08.1ACN |
| Daewoo                     | XDWXL08.1ADT |
| Daewoo                     | XDWXL11.1BIA |
| Daewoo                     | XDWXL11.1BHT |
| Daewoo                     | XDWXL11.1DJA |
| Daewoo                     | XDWXL14.6AZA |
| Daewoo                     | XDWXL14.6CVT |
| Daewoo                     | XDWXL18.3ASA |
| Detroit Diesel Corporation | XDDXL08.5TJD |
| Detroit Diesel Corporation | XDDXL09.1TFE |
| Detroit Diesel Corporation | XDDXL11.1THD |
| Detroit Diesel Corporation | XDDXL12.1TFE |
| Detroit Diesel Corporation | XDDXL12.1TFM |
| Detroit Diesel Corporation | XDDXL12.7TGD |
| Detroit Diesel Corporation | XDDXL14.0TLD |
| Detroit Diesel Corporation | XDDXL15.9TRE |
| Detroit Diesel Corporation | XDDXL23.9TRE |
| Deere                      | XJDXL06.8012 |
| Deere                      | XJDXL08.1007 |

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|------------|--------------|
| Deere      | XJDXL08.1008 |
| Deere      | XJDXL10.5022 |
| Deutz AG   | XDZXL02.7014 |
| Deutz AG   | XDZXL07.1005 |
| Deutz AG   | XDZXL07.1004 |
| Deutz AG   | XDZXL15.9002 |
| Deutz AG   | XDZXL15.9003 |
| Generac    | XGNXL13.3HTA |
| Komatsu    | XKLXL03.3JA1 |
| Komatsu    | XKLXL11.0DB1 |
| Komatsu    | XKLXL11.0DC1 |
| Komatsu    | XKLXL15.2EC1 |
| Komatsu    | XKLXL23.2FC1 |
| Komatsu    | XKLXL7.15CB1 |
| Komatsu    | XKLXL7.15CC1 |
| Komatsu    | XKDXL0239ACA |
| Komatsu    | XKDXL0359ABA |
| Komatsu    | XKDXL0505ABB |
| Komatsu    | XKDXL0505ACA |
| KUBOTA     | XKBXL03.3BAC |
| KUBOTA     | XKBXL03.3BCC |
| Mitsubishi | XMTXL07.5D6C |
| Mitsubishi | XMTXL11.9D6A |
| Navistar   | XNVXL0466BNA |
| Navistar   | XNVXL0530ANA |
| Navistar   | XNVXL0530ANB |
| Navistar   | XNVXL0530ANC |
| Navistar   | XNVXL0530AND |
| Navistar   | XNVXL0530BNA |
| Navistar   | XNVXL0530BNB |
| Navistar   | XNVXL0530BNC |
| Navistar   | XNVXL0530BND |
| Yanmar     | XYDXL2.00D4T |
| Yanmar     | XYDXL2.78D4N |
| Yanmar     | XYDXL4.41D4N |
| Yanmar     | XYDXL4.41D4T |

Model Year 2000 Engines

| <b>Manufacturer</b> | <b>Engine Families</b> |
|---------------------|------------------------|
| AB Volvo Penta      | YVPXL07.3ABB           |
| AB Volvo Penta      | YVPXL07.3ACB           |
| AB Volvo Penta      | YVPXL09.6ACB           |
| AB Volvo Penta      | YVPXL12.0ACB           |
| Case                | YX9XL0239ACA           |
| Case                | YX9XL0239ADA           |
| Case                | YX9XL0359ABA           |
| Case                | YX9XL0359ABB           |
| Case                | YX9XL0505ABA           |
| Case                | YX9XL0505ABB           |
| Case                | YX9XL0505ACA           |
| Caterpillar         | YCPXL07.0MRB           |
| Caterpillar         | YCPXL10.5MRD           |
| Caterpillar         | YCPXL10.5MRG           |
| Caterpillar         | YCPXL14.6ERK           |
| Caterpillar         | YCPXL27.0MRH           |
| Caterpillar         | YCPXL27.0MRS           |
| Caterpillar         | YCPXL34.5ERK           |
| Caterpillar         | YCPXL69.0ERK           |
| Cummins             | YCEXL03.3AAA           |
| Cummins             | YCEXL03.3AAB           |
| Cummins             | YCEXL015.ABA           |
| Cummins             | YCEXL019.AAA           |
| Cummins             | YCEXL019.AAB           |
| Cummins             | YCEXL030.ABA           |
| Cummins             | YCEXL050.ABA           |
| Cummins             | YCEXL0239ACA           |
| Cummins             | YCEXL0239ADA           |
| Cummins             | YCEXL0359AAA           |
| Cummins             | YCEXL0359ABA           |
| Cummins             | YCEXL0359ABC           |
| Cummins             | YCEXL050.AAA           |
| Cummins             | YCEXL0505ABA           |
| Cummins             | YCEXL0505ABB           |
| Cummins             | YCEXL0505ACA           |

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|----------------------------|--------------|
| Cummins                    | YCEXL060.ABA |
| Cummins                    | YCEXL0661AAA |
| Cummins                    | YCEXL0855AAA |
| Cummins                    | YCEXL0855AAB |
| Deere                      | YJDXL06.8012 |
| Deere                      | YJDXL08.1007 |
| Deere                      | YJDXL08.1008 |
| Deere                      | YJDXL10.5022 |
| Detroit Diesel Corporation | YDDXL08.5TJD |
| Detroit Diesel Corporation | YDDXL11.1THD |
| Detroit Diesel Corporation | YDDXL12.1TFE |
| Detroit Diesel Corporation | YDDXL12.1TFM |
| Detroit Diesel Corporation | YDDXL12.7TGD |
| Detroit Diesel Corporation | YDDXL14.0TLD |
| Detroit Diesel Corporation | YDDXL15.9TRE |
| Detroit Diesel Corporation | YDDXL23.9TRE |
| Detroit Diesel Corporation | YDDXL31.8VRE |
| Detroit Diesel Corporation | YDDXL65.0VTE |
| Deutz AG                   | YDZXL02.7014 |
| Deutz AG                   | YDZXL07.1004 |
| Deutz AG                   | YDZXL07.1005 |
| Deutz AG                   | YDZXL15.9002 |
| Deutz AG                   | YDZXL15.9003 |
| Deutz AG                   | YDZXL17.5001 |
| Genrac                     | YGNXL13.3HAA |
| Genrac                     | YGNXL13.3HTA |
| Genrac                     | YGNXL16.0MAA |
| Komatsu                    | YKLXL0505ACA |
| Komatsu                    | YKLXL11.0DB1 |
| Komatsu                    | YKLXL11.0DC1 |
| Komatsu                    | YKLXL15.2EC1 |
| Komatsu                    | YKLXL23.2FC1 |
| Komatsu                    | YKLXL23.2FC2 |
| Komatsu                    | YKLXL30.5GC1 |
| Komatsu                    | YKLXL7.15CB1 |
| Komatsu                    | YKLXL7.15CC1 |
| Navistar                   | YNVXL0466ANA |

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|-----------|--------------|
| Navistar  | YNVXL0530ANA |
| Navistar  | YNVXL0530ANB |
| Navistar  | YNVXL0530ANC |
| Navistar  | YNVXL0530AND |
| VM Motori | YV5XI02.1R3V |
| VM Motori | YV5XL02.8R2T |

Model Year 2001 Engines

| <b>Manufacturer</b> | <b>Engine Families</b> |
|---------------------|------------------------|
| AB Volvo Penta      | 1VPXL07.3ABB           |
| AB Volvo Penta      | 1VPXL07.3ACB           |
| AB Volvo Penta      | 1VPXL09.6ACB           |
| AB Volvo Penta      | 1VPXL12.1ACB           |
| Case                | 1X9XL0239ACA           |
| Case                | 1X9XL0239ADA           |
| Case                | 1X9XL0359ABA           |
| Case                | 1X9XL0359ABB           |
| Case                | 1X9XL0505ABA           |
| Case                | 1X9XL0505ABB           |
| Case                | 1X9XL0505ACA           |
| Caterpillar         | 1CPXL07.0MRB           |
| Caterpillar         | 1CPXL10.5MRD           |
| Caterpillar         | 1CPXL10.5MRG           |
| Caterpillar         | 1CPXL12.0ESK           |
| Caterpillar         | 1CPXL14.6ESK           |
| Caterpillar         | 1CPXL15.8ESK           |
| Caterpillar         | 1CPXL18.0HRN           |
| Caterpillar         | 1CPXL27.0HRK           |
| Caterpillar         | 1CPXL27.0MRS           |
| Caterpillar         | 1CPXL27.0MRT           |
| Caterpillar         | 1CPXL34.5ERK           |
| Caterpillar         | 1CPXL78.1ERK           |
| Cummins             | 1CEXL03.3AAA           |
| Cummins             | 1CEXL03.3AAB           |
| Cummins             | 1CEXL015.AAA           |
| Cummins             | 1CEXL015.ABA           |
| Cummins             | 1CEXL019.AAB           |



|                            |              |
|----------------------------|--------------|
| Cummins                    | 1CEXL0239ACA |
| Cummins                    | 1CEXL0239ADA |
| Cummins                    | 1CEXL030.ABA |
| Cummins                    | 1CEXL0359ABA |
| Cummins                    | 1CEXL0359ABB |
| Cummins                    | 1CEXL0359ABC |
| Cummins                    | 1CEXL0359ABD |
| Cummins                    | 1CEXL050.AAA |
| Cummins                    | 1CEXL050.ABA |
| Cummins                    | 1CEXL0505ABA |
| Cummins                    | 1CEXL0505ABB |
| Cummins                    | 1CEXL0505ACA |
| Cummins                    | 1CEXL0505ACE |
| Cummins                    | 1CEXL0661AAA |
| Cummins                    | 1CEXL0661AAD |
| Cummins                    | 1CEXL060.ABA |
| Daewoo                     | 1DWXL2.37ANT |
| Daewoo                     | 1DWXL03.3AMN |
| Daewoo                     | 1DWXL03.3BMA |
| Daewoo                     | 1DWXL03.3LMN |
| Daewoo                     | 1DWXL05.8AOA |
| Daewoo                     | 1DWXL05.8ARN |
| Daewoo                     | 1DWXL08.1ACN |
| Daewoo                     | 1DWXL11.1BIA |
| Daewoo                     | 1DWXL14.6AZA |
| Daewoo                     | 1DWXL14.6CVT |
| Daewoo                     | 1DWXL18.3ASA |
| Daewoo                     | 1DWXL21.9AYA |
| Detroit Diesel Corporation | 1DDXL08.5TJD |
| Detroit Diesel Corporation | 1DDXL08.5YJD |
| Detroit Diesel Corporation | 1DDXL12.7VGD |
| Detroit Diesel Corporation | 1DDXL14.0VLD |
| Detroit Diesel Corporation | 1DDXL14.0WLD |
| Detroit Diesel Corporation | 1DDXL15.9WRE |
| Detroit Diesel Corporation | 1DDXL23.9WRE |
| Detroit Diesel Corporation | 1DDXL31.8XRE |
| Detroit Diesel Corporation | 1DDXL65.0XTE |

|               |              |
|---------------|--------------|
| Deere         | 1JDXL06.8012 |
| Deere         | 1JDXL06.8038 |
| Deere         | 1JDXL06.8039 |
| Deere         | 1JDXL08.1007 |
| Deere         | 1JDXL08.1008 |
| Deere         | 1JDXL08.1036 |
| Deere         | 1JDXL08.1037 |
| Deutz         | 1DZXL02.7014 |
| Deutz         | 1DZXL02.7015 |
| Deutz         | 1DDXL08.5TJD |
| Deutz         | 1DDXL08.5YJD |
| Deutz         | 1DZXL07.1005 |
| Deutz         | 1DZXL15.9002 |
| Deutz         | 1DZXL15.9003 |
| Generac       | 1GNXL04.0HAA |
| Generac       | 1GNXL04.0HNA |
| Generac       | 1GNXL05.0FAA |
| Isuzu         | 1SZXL06.5BTA |
| Isuzu         | 1SZXL09.8EXA |
| Isuzu         | 1SZXL15.7ETA |
| Isuzu         | 1SZXL15.7EXA |
| International | 1NVXL0530ANC |
| International | 1NVXL0530AND |
| International | 1NVXL0530ANF |
| Komatsu       | 1KLXL0239ACA |
| Komatsu       | 1KLXL0239ADA |
| Komatsu       | 1KLXL0359ABA |
| Komatsu       | 1KLXL0359ABC |
| Komatsu       | 1KLXL0505ABB |
| Komatsu       | 1KLXL0505ACA |
| Komatsu       | 1KLXL03.3JA1 |
| Komatsu       | 1KLXL03.3JB1 |
| Komatsu       | 1KLXL7.15CB1 |
| Komatsu       | 1KLXL7.15CC1 |
| Komatsu       | 1KLXL11.0DD3 |
| Komatsu       | 1KLXL15.2EC3 |
| Komatsu       | 1KLXL30.5GC1 |

|            |              |
|------------|--------------|
| Komatsu    | 1KLXL30.5GD1 |
| Mitsubishi | 1MTXL07.5D6A |
| Mitsubishi | 1MTXL07.5D6C |
| Mitsubishi | 1MTXL11.9D6A |

Model Year 2002 Engines

| <b>Manufacturer</b> | <b>Engine Families</b> |
|---------------------|------------------------|
| Case                | 2X9XL0239ACA           |
| Case                | 2X9XL0239ADA           |
| Case                | 2X9XL0359ABA           |
| Case                | 2X9XL0359ABB           |
| Case                | 2X9XL0359ABE           |
| Case                | 2X9XL0505ABA           |
| Case                | 2X9XL0505ABB           |
| Case                | 2X9XL0505ABD           |
| Case                | 2X9XL0505ACA           |
| Caterpillar         | 2CPXL07.0MRB           |
| Caterpillar         | 2CPXL10.5MRD           |
| Caterpillar         | 2CPXL10.5MRG           |
| Caterpillar         | 2CPXL27.0MRS           |
| Caterpillar         | 2CPXL27.0MRT           |
| Caterpillar         | 2CPXL34.5ERK           |
| Caterpillar         | 2CPXL78.1ERK           |
| Cummins             | 2CEXL03.3AAA           |
| Cummins             | 2CEXL03.3AAB           |
| Cummins             | 2CEXL015.AAA           |
| Cummins             | 2CEXL015.AAB           |
| Cummins             | 2CEXL015.ABA           |
| Cummins             | 2CEXL019.AAB           |
| Cummins             | 2CEXL0239ACA           |
| Cummins             | 2CEXL0239ADA           |
| Cummins             | 2CEXL0359ABA           |
| Cummins             | 2CEXL0359ABB           |
| Cummins             | 2CEXL0359ABC           |
| Cummins             | 2CEXL0359ABE           |
| Cummins             | 2CEXL0505ABA           |
| Cummins             | 2CEXL0505ABB           |

|                |              |
|----------------|--------------|
| Cummins        | 2CEXL0505ABD |
| Cummins        | 2CEXL0505ACA |
| Cummins        | 2CEXL0505ACB |
| Cummins        | 2CEXL0505ACE |
| Cummins        | 2CEXL060.ABA |
| Cummins        | 2CEXL0661AAA |
| Cummins        | 2CEXL0661AAD |
| Detroit Diesel | 2DDXL08.5TJD |
| Detroit Diesel | 2DDXL08.5YJD |
| Detroit Diesel | 2DDXL12.7VGD |
| Detroit Diesel | 2DDXL14.0VLD |
| Detroit Diesel | 2DDXL31.8XRE |
| Detroit Diesel | 2DDXL65.0XTE |
| Deere          | 2JDXL06.8012 |
| Deere          | 2JDXL06.8038 |
| Deere          | 2JDXL06.8039 |
| Deere          | 2JDXL06.8041 |
| Deere          | 2JDXL06.8044 |
| Deere          | 2JDXL06.8049 |
| Deere          | 2JDXL08.1007 |
| Deere          | 2JDXL08.1008 |
| Deere          | 2JDXL08.1036 |
| Deere          | 2JDXL08.1037 |
| Deutz AG       | 2DZXL02.7014 |
| Deutz AG       | 2DZXL02.7015 |
| Deutz AG       | 2DZXL05.7033 |
| Deutz AG       | 2DZXL07.1004 |
| Deutz AG       | 2DZXL07.1005 |
| Deutz AG       | 2DZXL07.1032 |
| Deutz AG       | 2DZXL15.9002 |
| Deutz AG       | 2DZXL15.9003 |
| Daewoo         | 2DWXL2.37ANT |
| Daewoo         | 2DWXL03.3AMN |
| Daewoo         | 2DWXL03.3BMA |
| Daewoo         | 2DWXL03.3LMN |
| Daewoo         | 2DWXL05.8AOA |
| Daewoo         | 2DWXL05.8ARN |

|                     |              |
|---------------------|--------------|
| Daewoo              | 2DWXL08.1ACN |
| Daewoo              | 2DWXL11.1BIA |
| Daewoo              | 2DWXL14.6CVT |
| Daewoo              | 2DWXL21.9AYA |
| Generac             | 2GNXL04.0HAA |
| Generac             | 2GNXL04.0HNA |
| Generac             | 2GNXL05.0FAA |
| Isuzu               | 2SZXL06.5BTA |
| Isuzu               | 2SZXL09.8EXA |
| Isuzu               | 2SZXL15.7ETA |
| Isuzu               | 2SZXL15.7EXA |
| International Truck | 2NVXL0444ANA |
| International Truck | 2NVXL0530ANC |
| International Truck | 2NVXL0530AND |
| International Truck | 2NVXL0530ANF |
| Komatsu             | 2KLXL0239ACA |
| Komatsu             | 2KLXL0239ADA |
| Komatsu             | 2KLXL0359ABA |
| Komatsu             | 2KLXL0359ABC |
| Komatsu             | 2KLXL0505ABB |
| Komatsu             | 2KLXL0505ABD |
| Komatsu             | 2KLXL0505ACA |
| Komatsu             | 2KLXL03.3JA1 |
| Komatsu             | 2KLXL03.3JB1 |
| Komatsu             | 2KLXL11.0DB1 |
| Komatsu             | 2KLXL11.0DD3 |
| Komatsu             | 2KLXL15.2EC3 |
| Komatsu             | 2KLXL30.5GC1 |
| Komatsu             | 2KLXL30.5GD1 |
| Komatsu             | 2KLXL46.3HC1 |
| Komatsu             | 2KLXL7.15CB1 |
| Komatsu             | 2KLXL7.15CC1 |
| Mitsubishi          | 2MTXL07.5D6A |
| Mitsubishi          | 2MTXL07.5D6C |
| Mitsubishi          | 2MTXL11.9D6A |
| Mitsubishi          | 2MVXL24.5AAB |
| Mitsubishi          | 2MVXL65.4ABA |

|                |              |
|----------------|--------------|
| Mitsubishi     | 2MVXL65.4ABB |
| Mitsubishi     | 2MVXL65.4ABC |
| AB Volvo Penta | 2VPXL07.3ABB |
| AB Volvo Penta | 2VPXL07.3ACB |
| AB Volvo Penta | 2VPXL09.6ACB |
| AB Volvo Penta | 2VPXL12.1ABA |
| AB Volvo Penta | 2VPXL12.1ACA |
| AB Volvo Penta | 2VPXL12.1ACB |
| VM Motori      | 2V5XL02.8R2T |

Model Year 2003 Engines

| <b>Manufacturer</b> | <b>Engine Families</b> |
|---------------------|------------------------|
| Caterpillar         | 3CPXL18.0HRX           |
| Caterpillar         | 3CPXL27.0MRS           |
| Caterpillar         | 3CPXL27.0MRT           |
| Caterpillar         | 3CPXL34.5ERK           |
| Caterpillar         | 3CPXL58.6ERK           |
| Caterpillar         | 3CPXL78.1ERK           |
| CNH Engine Corp     | 3X9XL0239AAA           |
| CNH Engine Corp     | 3X9XL0239ABA           |
| CNH Engine Corp     | 3X9XL0359AAC           |
| CNH Engine Corp     | 3X9XL0359ABE           |
| CNH Engine Corp     | 3X9XL0505AAB           |
| CNH Engine Corp     | 3X9XL0505ABD           |
| Cummins             | 3CEXL015.AAB           |
| Cummins             | 3CEXL015.ABA           |
| Cummins             | 3CEXL023.AAA           |
| Cummins             | 3CEXL0239AAD           |
| Cummins             | 3CEXL0239AAF           |
| Cummins             | 3CEXL0275AAA           |
| Cummins             | 3CEXL0275AAB           |
| Cummins             | 3CEXL030.ABA           |
| Cummins             | 3CEXL0359AAB           |
| Cummins             | 3CEXL0359AAC           |
| Cummins             | 3CEXL0359ABC           |
| Cummins             | 3CEXL0359ABE           |
| Cummins             | 3CEXL050.ABA           |

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| Cummins             | 3CEXL0505ABD |
| Cummins             | 3CEXL0505ACB |
| Cummins             | 3CEXL060.ABA |
| Cummins             | 3CEXL0661AAD |
| Cummins             | 3CEXL078.AAB |
| Daewoo Motors       | 3DWXL05.8COA |
| Daewoo Motors       | 3DWXL11.1DJA |
| Daewoo Motors       | 3DWXL21.9AYA |
| Detroit Diesel      | 3DDXL08.5YJD |
| Detroit Diesel      | 3DDXL12.7VGD |
| Detroit Diesel      | 3DDXL14.0VLD |
| Detroit Diesel      | 3DDXL15.9WRE |
| Detroit Diesel      | 3DDXL31.8XRE |
| Detroit Diesel      | 3DDXL35.8GRP |
| Detroit Diesel      | 3DDXL65.0GTP |
| Detroit Diesel      | 3DDXL65.0XTE |
| Deere               | 3JDXL06.8038 |
| Deere               | 3JDXL06.8039 |
| Deere               | 3JDXL06.8041 |
| Deere               | 3JDXL06.8044 |
| Deere               | 3JDXL06.8048 |
| Deere               | 3JDXL06.8049 |
| Deere               | 3JDXL08.1037 |
| Deutz AG            | 3DZXL05.7033 |
| Deutz AG            | 3DZXL06.1028 |
| Deutz AG            | 3DZXL07.1032 |
| Deutz AG            | 3DZXL15.9002 |
| Daewoo Heavy Ind.   | 3DWXL08.1CPA |
| Daewoo Heavy Ind.   | 3DWXL18.3ASC |
| Daewoo Heavy Ind.   | 3DWXL2.37ANT |
| Isuzu               | 3SZXL09.8EXA |
| Isuzu               | 3SZXL15.7ETA |
| Isuzu               | 3SZXL15.7EXA |
| International Truck | 3NVXL0530ANF |
| Komatsu             | 3KLXL0239AAD |
| Komatsu             | 3KLXL0239AAF |
| Komatsu             | 3KLXL0359AAB |

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| Komatsu              | 3KLXL0359ABC |
| Komatsu              | 3KLXL0505ABD |
| Komatsu              | 3KLXL11.0DD3 |
| Komatsu              | 3KLXL15.2EC3 |
| Komatsu              | 3KLXL23.2FD4 |
| Komatsu              | 3KLXL30.5GC1 |
| Komatsu              | 3KLXL30.5GD1 |
| Lombardini Motori    | 3LBDL2.07CHT |
| Mack Trucks          | 3MKXL11.9P69 |
| Mitsubishi Heavy Ind | 3MVXL24.5AAB |
| Mitsubishi Heavy Ind | 3MVXL24.5ABA |
| Mitsubishi Heavy Ind | 3MVXL24.5ABB |
| Mitsubishi Heavy Ind | 3MVXL24.5ABD |
| Mitsubishi Heavy Ind | 3MVXL24.5ABE |
| Mitsubishi Heavy Ind | 3MVXL33.9ABA |
| Mitsubishi Heavy Ind | 3MVXL33.9ABB |
| Mitsubishi Heavy Ind | 3MVXL33.9ABD |
| Mitsubishi Heavy Ind | 3MVXL33.9ABE |
| Mitsubishi Heavy Ind | 3MVXL37.1ABA |
| Mitsubishi Heavy Ind | 3MVXL37.1ABB |
| Mitsubishi Heavy Ind | 3MVXL37.1ABC |
| Mitsubishi Heavy Ind | 3MVXL37.1ABD |
| Mitsubishi Heavy Ind | 3MVXL49.0ABA |
| Mitsubishi Heavy Ind | 3MVXL49.0ABB |
| Mitsubishi Heavy Ind | 3MVXL49.0ABC |
| Mitsubishi Heavy Ind | 3MVXL65.4ABA |
| Mitsubishi Heavy Ind | 3MVXL65.4ABB |
| Mitsubishi Heavy Ind | 3MVXL65.4ABC |
| Mitsubishi Heavy Ind | 3MVXL65.4ABD |
| Mitsubishi Heavy Ind | 3MVXL65.4ABE |
| Mitsubishi Heavy Ind | 3MVXL65.4ABF |
| Mitsubishi Heavy Ind | 3MVXL65.4ABG |
| AB Volvo Penta       | 3VPXL07.3ACB |
| AB Volvo Penta       | 3VPXL09.6ACB |
| AB Volvo Penta       | 3VPXL12.1ABA |
| AB Volvo Penta       | 3VPXL12.1ACA |
| AB Volvo Penta       | 3VPXL12.1ACB |



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| AB Volvo Penta | 3VPXL16.0ACB |
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Model Year 2004 Engines

| <b>Manufacturer</b> | <b>Engine Families</b> |
|---------------------|------------------------|
| Caterpillar         | 4CPXL15.8ERK           |
| Caterpillar         | 4CPXL18.0ESK           |
| Caterpillar         | 4CPXL18.0HRX           |
| Caterpillar         | 4CPXL27.0MRS           |
| Caterpillar         | 4CPXL27.0MRT           |
| Caterpillar         | 4CPXL34.5ERK           |
| Caterpillar         | 4CPXL58.6ERK           |
| Caterpillar         | 4CPXL78.1ERK           |
| CNH Engine Corp.    | 4X9XL0239AAC           |
| CNH Engine Corp.    | 4X9XL0359AAK           |
| CNH Engine Corp.    | 4X9XL0359ABE           |
| CNH Engine Corp.    | 4X9XL0505AAB           |
| CNH Engine Corp.    | 4X9XL0505ABD           |
| Cummins             | 4CEXL015.AAB           |
| Cummins             | 4CEXL015.ABA           |
| Cummins             | 4CEXL023.AAA           |
| Cummins             | 4CEXL0239AAD           |
| Cummins             | 4CEXL0239AAF           |
| Cummins             | 4CEXL0239AAG           |
| Cummins             | 4CEXL0275AAB           |
| Cummins             | 4CEXL0275AAC           |
| Cummins             | 4CEXL0275AAF           |
| Cummins             | 4CEXL03.3ABA           |
| Cummins             | 4CEXL03.3ABB           |
| Cummins             | 4CEXL030.ABA           |
| Cummins             | 4CEXL0359AAB           |
| Cummins             | 4CEXL0359AAC           |
| Cummins             | 4CEXL0359AAD           |
| Cummins             | 4CEXL0359AAE           |
| Cummins             | 4CEXL0359AAF           |
| Cummins             | 4CEXL0359AAH           |
| Cummins             | 4CEXL0359ABC           |
| Cummins             | 4CEXL0359ABE           |

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|----------------|--------------|
| Cummins        | 4CEXL050.ABA |
| Cummins        | 4CEXL0505ABD |
| Cummins        | 4CEXL0505ACB |
| Cummins        | 4CEXL060.ABA |
| Cummins        | 4CEXL0661AAD |
| Cummins        | 4CEXL078.AAB |
| Cummins        | 4CEXL2.28A41 |
| Cummins        | 4CEXL2.28A42 |
| Detroit Diesel | 4DDXL08.5YJD |
| Detroit Diesel | 4DDXL12.7VGD |
| Detroit Diesel | 4DDXL14.0VLD |
| Detroit Diesel | 4DDXL23.9WRE |
| Detroit Diesel | 4DDXL31.8XRE |
| Detroit Diesel | 4DDXL35.8GRP |
| Detroit Diesel | 4DDXL65.0GTP |
| Detroit Diesel | 4DDXL65.0XTE |
| Detroit Diesel | 4DDXL90.0XTP |
| Deere          | 4JDXL03.0064 |
| Deere          | 4JDXL06.8038 |
| Deere          | 4JDXL06.8041 |
| Deere          | 4JDXL06.8048 |
| Deere          | 4JDXL06.8049 |
| Deere          | 4JDXL08.1037 |
| Deutz AG       | 4DZXL03.1039 |
| Deutz AG       | 4DZXL03.1040 |
| Deutz AG       | 4DZXL03.1041 |
| Deutz AG       | 4DZXL05.7033 |
| Deutz AG       | 4DZXL06.1038 |
| Deutz AG       | 4DZXL06.5036 |
| Deutz AG       | 4DZXL06.5037 |
| Deutz AG       | 4DZXL06.5042 |
| Deutz AG       | 4DZXL06.5043 |
| Deutz AG       | 4DZXL07.1032 |
| Deutz AG       | 4DZXL15.9002 |
| Deutz AG       | 4DZXL71.0021 |
| Daewoo         | 4DWXL05.8COA |
| Daewoo         | 4DWXL05.8CRN |

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|---------------------|--------------|
| Daewoo              | 4DWXL08.1CPA |
| Daewoo              | 4DWXL11.1BIA |
| Daewoo              | 4DWXL11.1DJA |
| Daewoo              | 4DWXL18.3ASC |
| Daewoo              | 4DWXL2.37ANT |
| Daewoo              | 4DWXL21.9AYA |
| Isuzu               | 4SZXL03.1GTB |
| Isuzu               | 4SZXL06.5FXG |
| Isuzu               | 4SZXL15.7ETA |
| Isuzu               | 4SZXL15.7EXA |
| International Truck | 4NVXL0530ANF |
| Iveco               | 4VEXL05.9DGS |
| Iveco               | 4VEXL12.9GEN |
| Kubota              | 4KBXL03.3ACD |
| Kubota              | 4KBXL03.3BAC |
| Kubota              | 4KBXL03.3BCC |
| Kubota              | 4KBXL03.8ACD |
| Komatsu             | 4KLXL0239AAD |
| Komatsu             | 4KLXL0239AAF |
| Komatsu             | 4KLXL0239ADA |
| Komatsu             | 4KLXL0275AAC |
| Komatsu             | 4KLXL03.3JA3 |
| Komatsu             | 4KLXL03.3JB3 |
| Komatsu             | 4KLXL03.3JD3 |
| Komatsu             | 4KLXL0359AAB |
| Komatsu             | 4KLXL0359AAE |
| Komatsu             | 4KLXL0359ABC |
| Komatsu             | 4KLXL0505ABD |
| Komatsu             | 4KLXL11.0DD3 |
| Komatsu             | 4KLXL15.2EC3 |
| Komatsu             | 4KLXL23.2FD4 |
| Komatsu             | 4KLXL30.5GC1 |
| Komatsu             | 4KLXL30.5GD1 |
| MACK Trucks         | 4MKXL11.9P69 |
| MACK Trucks         | 4MKXL11.9P72 |
| MOTORENFABRIK HATZ  | 4HZXL3.43C42 |
| MOTORENFABRIK HATZ  | 4HZXL3.43V42 |

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|-----------------------|--------------|
| Mitsubishi Heavy Ind. | 4MVXL05.0AAA |
| Mitsubishi Heavy Ind. | 4MVXL05.0AAD |
| Mitsubishi Heavy Ind. | 4MVXL24.5AAB |
| Mitsubishi Heavy Ind. | 4MVXL24.5ABA |
| Mitsubishi Heavy Ind. | 4MVXL24.5ABB |
| Mitsubishi Heavy Ind. | 4MVXL24.5ABD |
| Mitsubishi Heavy Ind. | 4MVXL24.5ABE |
| Mitsubishi Heavy Ind. | 4MVXL33.9ABB |
| Mitsubishi Heavy Ind. | 4MVXL33.9ABE |
| Mitsubishi Heavy Ind. | 4MVXL37.1ABB |
| Mitsubishi Heavy Ind. | 4MVXL37.1ABC |
| Mitsubishi Heavy Ind. | 4MVXL37.1ABD |
| Mitsubishi Heavy Ind. | 4MVXL49.0ABA |
| Mitsubishi Heavy Ind. | 4MVXL49.0ABB |
| Mitsubishi Heavy Ind. | 4MVXL49.0ABC |
| Mitsubishi Heavy Ind. | 4MVXL49.0ABD |
| Mitsubishi Heavy Ind. | 4MVXL49.0ABE |
| Mitsubishi Heavy Ind. | 4MVXL65.4ABA |
| Mitsubishi Heavy Ind. | 4MVXL65.4ABB |
| Mitsubishi Heavy Ind. | 4MVXL65.4ABC |
| Mitsubishi Heavy Ind. | 4MVXL65.4ABD |
| Mitsubishi Heavy Ind. | 4MVXL65.4ABE |
| Mitsubishi Heavy Ind. | 4MVXL65.4ABF |
| Mitsubishi Heavy Ind. | 4MVXL65.4ABG |
| Mitsubishi Heavy Ind. | 4MVXL65.4ABH |
| MTU                   | 4MTUL21.9R2A |
| Nissan Diesel         | 4NDXL03.0FTA |
| AB Volvo Penta        | 4VPXL07.3ACB |
| AB Volvo Penta        | 4VPXL09.4ACA |
| AB Volvo Penta        | 4VPXL09.4ACB |
| AB Volvo Penta        | 4VPXL09.4ACC |
| AB Volvo Penta        | 4VPXL09.6ACB |
| AB Volvo Penta        | 4VPXL09.6ACC |
| AB Volvo Penta        | 4VPXL12.1ABA |
| AB Volvo Penta        | 4VPXL12.1ACA |
| AB Volvo Penta        | 4VPXL12.1ACB |
| Yanmar                | 4YDXL3.05M4N |

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|-----------|--------------|
| Yanmar    | 4YDXL3.32J4N |
| Yanmar    | 4YDXL3.32J4T |
| Yanmar    | 4YDXL3.32K4N |
| Yanmar    | 4YDXL3.32K4T |
| Yanmar    | 4YDXL4.41K4T |
| Perkins   | 4PKXL15.8H16 |
| Scania AB | 4Y9XL11.7BBG |
| Scania AB | 4Y9XL15.6BDA |

Model Year 2005 Engines

| <b>Manufacturer</b> | <b>Engine Families</b> |
|---------------------|------------------------|
| Caterpillar         | 5CPXL15.2ESK           |
| Caterpillar         | 5CPXL15.8ERK           |
| Caterpillar         | 5CPXL18.0ESK           |
| Caterpillar         | 5CPXL27.0MRS           |
| Caterpillar         | 5CPXL27.0MRT           |
| Caterpillar         | 5CPXL34.5ERK           |
| Caterpillar         | 5CPXL58.6ERK           |
| Caterpillar         | 5CPXL78.1ERK           |
| CNH Engine Corp.    | 5X9XL0239AAC           |
| CNH Engine Corp.    | 5X9XL0359AAK           |
| CNH Engine Corp.    | 5X9XL0359ABE           |
| CNH Engine Corp.    | 5X9XL0505AAB           |
| CNH Engine Corp.    | 5X9XL0505ABD           |
| CNH Engine Corp.    | 5X9XL0540AAB           |
| Cummins             | 5CEXL015.AAB           |
| Cummins             | 5CEXL015.ABA           |
| Cummins             | 5CEXL019.AAB           |
| Cummins             | 5CEXL023.AAA           |
| Cummins             | 5CEXL0239AAD           |
| Cummins             | 5CEXL0239AAF           |
| Cummins             | 5CEXL0239AAG           |
| Cummins             | 5CEXL0275AAB           |
| Cummins             | 5CEXL0275AAC           |
| Cummins             | 5CEXL0275AAF           |
| Cummins             | 5CEXL03.3ABA           |
| Cummins             | 5CEXL03.3ABB           |

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| Cummins                    | 5CEXL030.ABA |
| Cummins                    | 5CEXL0359AAB |
| Cummins                    | 5CEXL0359AAC |
| Cummins                    | 5CEXL0359AAD |
| Cummins                    | 5CEXL0359AAE |
| Cummins                    | 5CEXL0359AAF |
| Cummins                    | 5CEXL0359AAH |
| Cummins                    | 5CEXL0359ABC |
| Cummins                    | 5CEXL0359ABE |
| Cummins                    | 5CEXL0409AAB |
| Cummins                    | 5CEXL0409AAC |
| Cummins                    | 5CEXL050.ABA |
| Cummins                    | 5CEXL0505AAE |
| Cummins                    | 5CEXL0505ABD |
| Cummins                    | 5CEXL0505ACB |
| Cummins                    | 5CEXL0540AAB |
| Cummins                    | 5CEXL060.ABA |
| Cummins                    | 5CEXL078.AAB |
| Cummins                    | 5CEXL2.28A41 |
| Cummins                    | 5CEXL2.28A42 |
| Detroit Diesel Corporation | 5DDXL08.5YJD |
| Detroit Diesel Corporation | 5DDXL15.9WRE |
| Detroit Diesel Corporation | 5DDXL31.8XRR |
| Detroit Diesel Corporation | 5DDXL35.8GRP |
| Detroit Diesel Corporation | 5DDXL65.0GTE |
| Detroit Diesel Corporation | 5DDXL65.0GTP |
| Detroit Diesel Corporation | 5DDXL65.0XTE |
| Detroit Diesel Corporation | 5DDXL90.0XTP |
| Deere                      | 5JDXL04.5083 |
| Deere                      | 5JDXL06.8038 |
| Deere                      | 5JDXL06.8041 |
| Deere                      | 5JDXL06.8048 |
| Deere                      | 5JDXL06.8049 |
| Deere                      | 5JDXL06.8078 |
| Deere                      | 5JDXL06.8101 |
| Deere                      | 5JDXL08.1037 |
| Deere                      | 5JDXL08.1059 |

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|-------------------------|--------------|
| Deere                   | 5JDXL09.0102 |
| Deutz                   | 5DZXL03.1039 |
| Deutz                   | 5DZXL03.1040 |
| Deutz                   | 5DZXL05.7033 |
| Deutz                   | 5DZXL06.1038 |
| Deutz                   | 5DZXL06.5036 |
| Deutz                   | 5DZXL06.5037 |
| Deutz                   | 5DZXL06.5042 |
| Deutz                   | 5DZXL06.5043 |
| Deutz                   | 5DZXL07.1032 |
| Deutz                   | 5DZXL15.9002 |
| Deutz                   | 5DZXL71.0021 |
| Daewoo Heavy Ind.       | 5DWXL08.1CPA |
| Daewoo Heavy Ind.       | 5DWXL18.3ASC |
| Daewoo Heavy Ind.       | 5DWXL21.9AYA |
| MotorenFabrik HATZ GMBH | 5HZXL3.43C42 |
| Isuzu                   | 5SZXL03.1GTB |
| Isuzu                   | 5SZXL04.3GTG |
| Isuzu                   | 5SZXL06.5FXG |
| Isuzu                   | 5SZXL09.8EXA |
| Isuzu                   | 5SZXL15.7ETA |
| Isuzu                   | 5SZXL15.7EXA |
| Iveco                   | 5VEXL05.9DGS |
| Iveco                   | 5VEXL06.7DGA |
| Iveco                   | 5VEXL12.9GEN |
| Komatsu                 | 5KLXL0239AAD |
| Komatsu                 | 5KLXL0239AAF |
| Komatsu                 | 5KLXL0239ADA |
| Komatsu                 | 5KLXL0275AAC |
| Komatsu                 | 5KLXL03.3JA3 |
| Komatsu                 | 5KLXL03.3JB3 |
| Komatsu                 | 5KLXL03.3JD3 |
| Komatsu                 | 5KLXL0359AAB |
| Komatsu                 | 5KLXL0359AAE |
| Komatsu                 | 5KLXL0359AAL |
| Komatsu                 | 5KLXL0359ABC |
| Komatsu                 | 5KLXL0409AAB |

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|-----------------------------|--------------|
| Komatsu                     | 5KLXL0409AAC |
| Komatsu                     | 5KLXL0505ABD |
| Komatsu                     | 5KLXL23.2FD4 |
| Komatsu                     | 5KLXL30.5GC1 |
| Komatsu                     | 5KLXL30.5GD1 |
| Kuboto                      | 5KBXL03.3BAC |
| Kuboto                      | 5KBXL03.3BCC |
| KUKJ                        | 5KMCL2.28A41 |
| KUKJ                        | 5KMCL2.28A42 |
| Lombardini Motori           | 5LBDL2.19CHT |
| Mitsubishi Heavy Industries | 5MVXL05.0AAA |
| Mitsubishi Heavy Industries | 5MVXL05.0AAC |
| Mitsubishi Heavy Industries | 5MVXL05.0AAD |
| Mitsubishi Heavy Industries | 5MVXL24.5ABB |
| Mitsubishi Heavy Industries | 5MVXL33.9ABB |
| Mitsubishi Heavy Industries | 5MVXL37.1ABC |
| Mitsubishi Heavy Industries | 5MVXL49.0ABD |
| Mitsubishi Heavy Industries | 5MVXL65.4ABB |
| Mitsubishi Heavy Industries | 5MVXL65.4ABH |
| MITF                        | 5MFTL07.5D6A |
| MTU-Friedrichshafen         | 5MTUL21.9R2A |
| Nissan Diesel               | 5NDXL02.7TNA |
| Nissan Diesel               | 5NDXL03.0FTA |
| AB Volvo Penta              | 5VPXL07.3ACB |
| AB Volvo Penta              | 5VPXL09.4ACA |
| AB Volvo Penta              | 5VPXL09.4ACB |
| AB Volvo Penta              | 5VPXL09.4ACC |
| AB Volvo Penta              | 5VPXL09.6ACB |
| AB Volvo Penta              | 5VPXL12.1ABA |
| AB Volvo Penta              | 5VPXL12.1ACA |
| AB Volvo Penta              | 5VPXL12.1ACB |
| AB Volvo Penta              | 5VPXL16.1ACB |
| AB Volvo Penta              | 5VPXL16.1ACC |
| AB Volvo Penta              | 5VPXL16.1ACD |
| AB Volvo Penta              | 5VPXL16.1ACE |
| AB Volvo Penta              | 5VPXL16.1ACF |
| Yanmar                      | 5YDXL3.05M4N |



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|--------|--------------|
| Yanmar | 5YDXL3.32J4N |
| Yanmar | 5YDXL3.32J4T |
| Yanmar | 5YDXL3.32K4N |
| Yanmar | 5YDXL3.32K4T |
| Yanmar | 5YDXL4.41K4T |

Model Year 2006 Engines

| <b>Manufacturer</b> | <b>Engine Families</b> |
|---------------------|------------------------|
| AB Volvo Penta      | 6VPXL12.1BAA           |
| AB Volvo Penta      | 6VPXL16.1ACB           |
| AB Volvo Penta      | 6VPXL9.4BAA            |
| Caterpillar         | 6CPXL15.2ESK           |
| Caterpillar         | 6CPXL18.0ESK           |
| Caterpillar         | 6CPXL18.1ESK           |
| Caterpillar         | 6CPXL18.1ESL           |
| Caterpillar         | 6CPXL32.0ESK           |
| Caterpillar         | 6CPXL34.5E2T           |
| Caterpillar         | 6CPXL34.5T2E           |
| Caterpillar         | 6CPXL58.6E2T           |
| Caterpillar         | 6CPXL58.6T2E           |
| Caterpillar         | 6CPXL78.1E2T           |
| Caterpillar         | 6CPXL78.1T2E           |
| CNH Engine Corp.    | 6X9XL0239AAC           |
| CNH Engine Corp.    | 6X9XL0359AAM           |
| CNH Engine Corp.    | 6X9XL0359ABE           |
| CNH Engine Corp.    | 6X9XL0505ABD           |
| CNH Engine Corp.    | 6X9XL0540AAB           |
| Cummins             | 6CEXK0505AAE           |
| Cummins             | 6CEXL015.AAB           |
| Cummins             | 6CEXL019.AAB           |
| Cummins             | 6CEXL019.AAC           |
| Cummins             | 6CEXL023.AAA           |
| Cummins             | 6CEXL0239AAD           |
| Cummins             | 6CEXL0239AAF           |
| Cummins             | 6CEXL0239AAG           |
| Cummins             | 6CEXL0275AAB           |
| Cummins             | 6CEXL0275AAC           |

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|-----------------|--------------|
| Cummins         | 6CEXL0275AAG |
| Cummins         | 6CEXL0275AAH |
| Cummins         | 6CEXL030.AAB |
| Cummins         | 6CEXL030.AAD |
| Cummins         | 6CEXL030.ABA |
| Cummins         | 6CEXL03.3ABC |
| Cummins         | 6CEXL0359AAB |
| Cummins         | 6CEXL0359AAC |
| Cummins         | 6CEXL0359AAD |
| Cummins         | 6CEXL0359AAF |
| Cummins         | 6KLXL0359AAL |
| Cummins         | 6CEXL0359AAN |
| Cummins         | 6CEXL0359ABC |
| Cummins         | 6CEXL0359ABE |
| Cummins         | 6CEXL0409AAB |
| Cummins         | 6CEXL0409AAC |
| Cummins         | 6CEXL050.AAD |
| Cummins         | 6CEXL050.ABA |
| Cummins         | 6CEXL0505ABD |
| Cummins         | 6CEXL0540AAB |
| Cummins         | 6CEXL060.AAD |
| Cummins         | 6CEXL078.AAB |
| DAIMLERCHRYSLER | 6MBXL7.20RJA |
| DAIMLERCHRYSLER | 6MBXL12.8RJB |
| Deere           | 6JDXL03.0064 |
| Deere           | 6JDXL04.5057 |
| Deere           | 6JDXL04.5083 |
| Deere           | 6JDXL06.8001 |
| Deere           | 6JDXL06.8004 |
| Deere           | 6JDXL06.8006 |
| Deere           | 6JDXL06.8038 |
| Deere           | 6JDXL06.8041 |
| Deere           | 6JDXL06.8048 |
| Deere           | 6JDXL06.8049 |
| Deere           | 6JDXL06.8078 |
| Deere           | 6JDXL08.1037 |
| Deere           | 6JDXL09.0102 |

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| Deere                      | 6JDXL12.5035 |
| Deere                      | 6JDXL12.5073 |
| Deere                      | 6JDXL13.5103 |
| Detroit Diesel Corporation | 6DDXL14.0VLD |
| Detroit Diesel Corporation | 6DDXL31.8XRR |
| Deutz                      | 6DZXL06.1038 |
| Deutz                      | 6DZXL06.1028 |
| Deutz                      | 6DZXL05.7033 |
| Deutz                      | 6DZXL06.5036 |
| Deutz                      | 6DZXL06.5037 |
| Deutz                      | 6DZXL06.5042 |
| Deutz                      | 6DZXL03.1066 |
| Deutz                      | 6DZXL03.1039 |
| Deutz                      | 6DZXL03.1040 |
| Isuzu                      | 6SZXL04.3GTG |
| Isuzu                      | 6SZXL06.5FXG |
| Isuzu                      | 6SZXL05.2HXA |
| Isuzu                      | 6SZXL05.2IXA |
| Isuzu                      | 6SZXL07.8HXA |
| Isuzu                      | 6SZXL15.7HXA |
| IVECO                      | 6VEXL04.5DGT |
| IVECO                      | 6VEXL04.5DGN |
| IVECO                      | 6VEXL06.7DGA |
| IVECO                      | 6VEXL06.7DGB |
| IVECO                      | 6VEXL06.7DGS |
| Komatsu                    | 6KLXL0239AAD |
| Komatsu                    | 6KLXL0239AAF |
| Komatsu                    | 6KLXL0239ADA |
| Komatsu                    | 6KLXL0275AAC |
| Komatsu                    | 6KLXL0275AAG |
| Komatsu                    | 6KLXL0275AAH |
| Komatsu                    | 6KLXL03.3JD3 |
| Komatsu                    | 6KLXL0359AAB |
| Komatsu                    | 6KLXL0359AAE |
| Komatsu                    | 6KLXL0359AAL |
| Komatsu                    | 6KLXL0359ABC |
| Komatsu                    | 6KLXL0409AAB |

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|----------------------------------|--------------|
| Komatsu                          | 6KLXL0409AAC |
| Komatsu                          | 6KLXL0505ABD |
| Kubota                           | 6KBXL03.3CCD |
| Mitsubishi Fuso Truck & Bus Corp | 6MFTL05.8D3A |
| Mitsubishi Heavy Industries      | 6MVXL05.0AAA |
| Mitsubishi Heavy Industries      | 6MVXL05.0AAD |
| Mitsubishi Heavy Industries      | 6MVXL05.0DDD |
| Mitsubishi Heavy Industries      | 6MVXL06.4DDD |
| Mitsubishi Heavy Industries      | 6MVXL06.4EEE |
| MotorenFabrik HATZ GMBH          | 6HZXL3.43C42 |
| MotorenFabrik HATZ GMBH          | 6HZXL3.43V42 |
| Nissan                           | 6NDXL03.0FTA |
| VMMI                             | 6V5XL04.2G5V |
| Yanmar                           | 6YDXL3.32J4T |
| Yanmar                           | 6YDXL3.32K4T |
| Yanmar                           | 6YDXL4.41K4T |

Model Year 2007 Engines

| <b>Manufacturer</b> | <b>Engine Families</b> |
|---------------------|------------------------|
| AB Volvo Penta      | 7VPXL09.4BAA           |
| AB Volvo Penta      | 7VPXL12.1BAA           |
| AB Volvo Penta      | 7VPXL16.1ACB           |
| Caterpillar         | 7CPXL07.2ESL           |
| Caterpillar         | 7CPXL08.8ESK           |
| Caterpillar         | 7CPXL11.1ESK           |
| Caterpillar         | 7CPXL12.5ESK           |
| Caterpillar         | 7CPXL15.2ESK           |
| Caterpillar         | 7CPXL15.2ESL           |
| Caterpillar         | 7CPXL18.1ESK           |
| Caterpillar         | 7CPXL18.1ESL           |
| Caterpillar         | 7CPXL27.0ESK           |
| Caterpillar         | 7CPXL32.0ESK           |
| Caterpillar         | 7CPXL51.8E2W           |
| Caterpillar         | 7CPXL78.1ERK           |
| Caterpillar         | 7CPXL34.5T2E           |
| Caterpillar         | 7CPXL58.6T2E           |
| Caterpillar         | 7CPXL78.1T2E           |

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| CNH Engine Corp. | 7X9XL0505AAE |
| CNH Engine Corp. | 7X9XL0540AAB |
| CNH Engine Corp. | 7X9XL0239AAB |
| CNH Engine Corp. | 7NHXL04.5DAA |
| CNH Engine Corp. | 7NHXL04.5DCA |
| CNH Engine Corp. | 7NHXL06.7DAA |
| CNH Engine Corp. | 7NHXL06.7DCA |
| CNH Engine Corp. | 7NHXL06.7DCB |
| CNH Engine Corp. | 7NHXL06.7DTA |
| CNH Engine Corp. | 7NHXL06.7DTC |
| Cummins          | 7CEXL015.AAA |
| Cummins          | 7CEXL015.AAB |
| Cummins          | 7CEXL015.AAE |
| Cummins          | 7CEXL019.AAD |
| Cummins          | 7CEXL023.AAA |
| Cummins          | 7CEXL0239AAG |
| Cummins          | 7CEXL0275AAC |
| Cummins          | 7CEXL0275AAG |
| Cummins          | 7CEXL0275AAH |
| Cummins          | 7CEXL03.3ABA |
| Cummins          | 7CEXL03.3ABB |
| Cummins          | 7CEXL03.3ACA |
| Cummins          | 7CEXL03.3ACB |
| Cummins          | 7CEXL030.AAB |
| Cummins          | 7CEXL030.AAD |
| Cummins          | 7CEXL030.ABA |
| Cummins          | 7CEXL038.AAA |
| Cummins          | 7CEXL0409AAB |
| Cummins          | 7CEXL0409AAC |
| Cummins          | 7CEXL045.AAA |
| Cummins          | 7CEXL050.AAC |
| Cummins          | 7CEXL050.AAD |
| Cummins          | 7CEXL050.ABA |
| Cummins          | 7CEXL0505AAE |
| Cummins          | 7CEXL0540AAB |
| Cummins          | 7CEXL060.AAB |
| Cummins          | 7CEXL060.AAD |

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| Cummins                    | 7CEXL0661AAF |
| Cummins                    | 7CEXL0661AAG |
| Cummins                    | 7CEXL0661AAH |
| Cummins                    | 7CEXL0661AAJ |
| Cummins                    | 7CEXL078.AAA |
| Cummins                    | 7CEXL078.AAB |
| DAIMLERCHRYSLER            | 7MBXL12.8RJB |
| DAIMLERCHRYSLER            | 7MBXL15.9RJA |
| Deere                      | 7JDXL03.0064 |
| Deere                      | 7JDXL04.5075 |
| Deere                      | 7JDXL04.5076 |
| Deere                      | 7JDXL04.5081 |
| Deere                      | 7JDXL04.5083 |
| Deere                      | 7JDXL06.8038 |
| Deere                      | 7JDXL06.8039 |
| Deere                      | 7JDXL06.8041 |
| Deere                      | 7JDXL06.8044 |
| Deere                      | 7JDXL06.8048 |
| Deere                      | 7JDXL06.8049 |
| Deere                      | 7JDXL06.8078 |
| Deere                      | 7JDXL06.8080 |
| Deere                      | 7JDXL06.8084 |
| Deere                      | 7JDXL06.8101 |
| Deere                      | 7JDXL06.8104 |
| Deere                      | 7JDXL06.8105 |
| Deere                      | 7JDXL06.8106 |
| Deere                      | 7JDXL08.1037 |
| Deere                      | 7JDXL09.0102 |
| Deere                      | 7JDXL12.5035 |
| Deere                      | 7JDXL12.5073 |
| Deere                      | 7JDXL13.5103 |
| Detroit Diesel Corporation | 7DDXL14.0VLD |
| Detroit Diesel Corporation | 7DDXL14.0WLD |
| Deutz                      | 7DZXL03.1039 |
| Deutz                      | 7DZXL03.1040 |
| Deutz                      | 7DZXL03.1066 |
| Deutz                      | 7DZXL06.1038 |

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|---------------------------------|--------------|
| Deutz                           | 7DZXL06.1059 |
| Deutz                           | 7DZXL06.1060 |
| Deutz                           | 7DZXL06.1061 |
| Deutz                           | 7DZXL06.1063 |
| Deutz                           | 7DZXL06.5042 |
| Deutz                           | 7DZXL06.5043 |
| Deutz                           | 7DZXL07.1051 |
| Deutz                           | 7DZXL07.1053 |
| Deutz                           | 7DZXL07.1055 |
| Deutz                           | 7DZXL15.9065 |
| Doosan Infracore                | 7DWXL05.8CRN |
| Doosan Infracore                | 7DWXL05.8UTA |
| Doosan Infracore                | 7DWXL07.6UPA |
| Doosan Infracore                | 7DWXL11.0UJA |
| Doosan Infracore                | 7DWXL21.9UYA |
| GNH UK LTD                      | 7NHXL06.7DCC |
| Hino Motors                     | 7HMXL05.1JTA |
| Hino Motors                     | 7HMXL07.7JTM |
| Hino Motors                     | 7HMXL10.5PUN |
| Ishikawajima-Shibaura Machinery | 7H3XL2.22N4L |
| Isuzu                           | 7SZXL03.0IXA |
| Isuzu                           | 7SZXL03.1GNA |
| Isuzu                           | 7SZXL03.1GNB |
| Isuzu                           | 7SZXL03.1GTB |
| Isuzu                           | 7SZXL04.3GTG |
| Isuzu                           | 7SZXL04.3GXA |
| Isuzu                           | 7SZXL05.2HXA |
| Isuzu                           | 7SZXL05.2IXA |
| Isuzu                           | 7SZXL07.8HXA |
| Isuzu                           | 7SZXL07.8HXB |
| Isuzu                           | 7SZXL09.8HXA |
| Isuzu                           | 7SZXL15.7HXA |
| Isuzu                           | 7SZXL15.7HXB |
| IVECO                           | 7VEXL03.9B1Z |
| IVECO                           | 7VEXL04.5DAA |
| IVECO                           | 7VEXL04.5DGN |
| IVECO                           | 7VEXL04.5DGT |

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| IVECO   | 7VEXL06.7DAA |
| IVECO   | 7VEXL06.7DCA |
| IVECO   | 7VEXL06.7DCB |
| IVECO   | 7VEXL06.7DCC |
| IVECO   | 7VEXL06.7DGB |
| IVECO   | 7VEXL06.7DGS |
| IVECO   | 7VEXL06.7DTA |
| IVECO   | 7VEXL06.7DTC |
| IVECO   | 7VEXL08.7TR3 |
| IVECO   | 7VEXL10.3MLR |
| IVECO   | 7VEXL12.9IGR |
| IVECO   | 7VEXL12.9MLR |
| IVECO   | 7VEXL12.9TR3 |
| IVECO   | 7VEXL20.1DSL |
| Komatsu | 7KLXL0239ADA |
| Komatsu | 7KLXL0275AAC |
| Komatsu | 7KLXL0275AAG |
| Komatsu | 7KLXL0275AAH |
| Komatsu | 7KLXL03.3JA3 |
| Komatsu | 7KLXL03.3JB3 |
| Komatsu | 7KLXL03.3JD3 |
| Komatsu | 7KLXL03.3JD6 |
| Komatsu | 7KLXL03.3JD7 |
| Komatsu | 7KLXL0359AAE |
| Komatsu | 7KLXL038.AAA |
| Komatsu | 7KLXL0409AAB |
| Komatsu | 7KLXL0409AAC |
| Komatsu | 7KLXL045.AAA |
| Komatsu | 7KLXL050.AAC |
| Komatsu | 7KLXL0505AAE |
| Komatsu | 7KLXL060.AAB |
| Komatsu | 7KLXL078.AAA |
| Komatsu | 7klxl11.0DD6 |
| Komatsu | 7KLXL11.0DD6 |
| Komatsu | 7KLXL15.2ED6 |
| Komatsu | 7klxl15.2ED6 |
| Komatsu | 7KLXL15.2ED7 |



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| Komatsu                          | 7KLXL23.2FD6 |
| Komatsu                          | 7KLXL30.5GD3 |
| Kubota                           | 7KBXL02.0FAD |
| Kubota                           | 7KBXL02.4HCD |
| Kubota                           | 7KBXL03.3BAC |
| Kubota                           | 7KBXL03.3BAD |
| Kubota                           | 7KBXL03.3BBB |
| Kubota                           | 7KBXL03.3BCC |
| Kubota                           | 7KBXL03.3BCD |
| Kubota                           | 7KBXL03.3CCD |
| Kubota                           | 7KBXL03.8AHD |
| Lombardini S.R.L.                | 7LBDL2.19CHT |
| MAHINDRA & MAHINDRA LTD.,        | 7MMLL03.1NEF |
| MAHINDRA & MAHINDRA LTD.,        | 7MMLL03.2NEF |
| MAHINDRA & MAHINDRA LTD.,        | 7MMLL03.2NET |
| MAHINDRA & MAHINDRA LTD.,        | 7MMLL03.4NEF |
| MAHINDRA & MAHINDRA LTD.,        | 7MMLL03.5NEF |
| Mitsubishi Fuso Truck & Bus Corp | 7MFTL02.8M4A |
| Mitsubishi Fuso Truck & Bus Corp | 7MFTL04.9M5A |
| Mitsubishi Fuso Truck & Bus Corp | 7MFTL07.5M6A |
| Mitsubishi Fuso Truck & Bus Corp | 7MFTL12.9M7A |
| Mitsubishi Heavy Industries      | 7MVXL05.0AAA |
| Mitsubishi Heavy Industries      | 7MVXL05.0AAC |
| Mitsubishi Heavy Industries      | 7MVXL05.0AAD |
| Mitsubishi Heavy Industries      | 7MVXL06.4FFF |
| Mitsubishi Heavy Industries      | 7MVXL24.5BBA |
| Mitsubishi Heavy Industries      | 7MVXL33.9BBA |
| Mitsubishi Heavy Industries      | 7MVXL37.1BBA |
| Mitsubishi Heavy Industries      | 7MVXL49.0BBA |
| Mitsubishi Heavy Industries      | 7MVXL65.4BBA |
| MotorenFabrik HATZ GMBH          | 7HZXL2.57C41 |
| MotorenFabrik HATZ GMBH          | 7HZXL3.43C42 |
| MotorenFabrik HATZ GMBH          | 7HZXL3.43V42 |
| MTU Detroit Diesel, Inc.         | 7MDDL31.8XRR |
| Nissan                           | 7NDXL02.7TNA |
| Nissan                           | 7NDXL03.0FTA |
| Nissan                           | 7NDXL03.2TNA |

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|---------------------------------|--------------|
| Perkins Engines                 | 7PKXL03.3DD1 |
| Perkins Engines                 | 7PKXL04.4NH1 |
| Perkins Engines                 | 7PKXL04.4RE1 |
| Perkins Engines                 | 7PKXL06.6PJ1 |
| Perkins Engines                 | 7PKXL06.6PJ2 |
| Perkins Engines                 | 7PKXL15.2TA2 |
| Perkins Engines                 | 7PKXL15.2TAG |
| Perkins Engines                 | 7PKXL18.1TAG |
| SCANIA CV AB                    | 7Y9XL11.7BBA |
| SCANIA CV AB                    | 7Y9XL11.7BBB |
| SCANIA CV AB                    | 7Y9XL15.6BDE |
| Shandong Weichai Huafeng Power  | 7SDWL4.33BBB |
| Shandong Weichai Huafeng Power  | 7SDWL7.52AAA |
| Sisu Diesel                     | 7SIDL03.3G4A |
| Sisu Diesel                     | 7SIDL04.4J2A |
| Sisu Diesel                     | 7SIDL07.4G4D |
| Sisu Diesel                     | 7SIDL07.4G4E |
| Sisu Diesel                     | 7SIDL07.4G5B |
| Sisu Diesel                     | 7SIDL07.4G5C |
| Sisu Diesel                     | 7SIDL08.4H5B |
| Volvo Construction Equipment AB | 7VSXL09.4CE3 |
| Volvo Construction Equipment AB | 7VSXL12.1CE3 |
| Volvo Construction Equipment AB | 7VSXL16.1CE3 |
| Yanmar                          | 7YDXL3.05M4N |
| Yanmar                          | 7YDXL3.05P4N |
| Yanmar                          | 7YDXL3.32J4N |
| Yanmar                          | 7YDXL3.32J4T |
| Yanmar                          | 7YDXL3.32K4T |
| Yanmar                          | 7YDXL3.32P4N |
| Yanmar                          | 7YDXL4.41K4T |

Model Year 2008 Engines

| <b>Manufacturer</b> | <b>Engine Families</b> |
|---------------------|------------------------|
| AB Volvo Penta      | 8VPXL09.4BAA           |
| AB Volvo Penta      | 8VPXL12.1BAA           |
| AB Volvo Penta      | 8VPXL12.8BCA           |
| AB Volvo Penta      | 8VPXL16.1ACB           |

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|----------------|--------------|
| AB Volvo Penta | 8VPXL16.1ACW |
| Caterpillar    | 8CPXL07.2ESL |
| Caterpillar    | 8CPXL08.8ESK |
| Caterpillar    | 8CPXL106.T2E |
| Caterpillar    | 8CPXL11.1ESK |
| Caterpillar    | 8CPXL12.5ESK |
| Caterpillar    | 8CPXL15.2ELW |
| Caterpillar    | 8CPXL15.2ESW |
| Caterpillar    | 8CPXL18.1ESK |
| Caterpillar    | 8CPXL18.1ESW |
| Caterpillar    | 8CPXL18.1ESX |
| Caterpillar    | 8CPXL27.0ESK |
| Caterpillar    | 8CPXL27.0ESW |
| Caterpillar    | 8CPXL27.0ESX |
| Caterpillar    | 8CPXL32.0ESW |
| Caterpillar    | 8CPXL32.0ESX |
| Caterpillar    | 8CPXL34.5E2W |
| Caterpillar    | 8CPXL34.5T2E |
| Caterpillar    | 8CPXL51.8E2W |
| Caterpillar    | 8CPXL58.6T2E |
| Caterpillar    | 8CPXL58.6T2X |
| Caterpillar    | 8CPXL78.1E2W |
| Caterpillar    | 8CPXL78.1T2E |
| CNH Engine     | 8X9XL0540AAB |
| CNH UK LTD     | 8NHXL04.5DAA |
| CNH UK LTD     | 8NHXL04.5DAB |
| CNH UK LTD     | 8NHXL04.5DCA |
| CNH UK LTD     | 8NHXL04.5DCB |
| CNH UK LTD     | 8NHXL06.7DAA |
| CNH UK LTD     | 8NHXL06.7DCA |
| CNH UK LTD     | 8NHXL06.7DCB |
| CNH UK LTD     | 8NHXL06.7DCC |
| Cummins        | 8CEXL015.AAA |
| Cummins        | 8CEXL015.AAB |
| Cummins        | 8CEXL015.AAE |
| Cummins        | 8CEXL015.AAH |
| Cummins        | 8CEXL015.AAJ |

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| Cummins         | 8CEXL019.AAD |
| Cummins         | 8CEXL023.AAA |
| Cummins         | 8CEXL023.AAB |
| Cummins         | 8CEXL023.AAC |
| Cummins         | 8CEXL0275AAG |
| Cummins         | 8CEXL0275AAH |
| Cummins         | 8CEXL0275AAK |
| Cummins         | 8CEXL03.3ACA |
| Cummins         | 8CEXL03.3ACB |
| Cummins         | 8CEXL03.3ACD |
| Cummins         | 8CEXL03.3ACE |
| Cummins         | 8CEXL030.AAB |
| Cummins         | 8CEXL030.AAD |
| Cummins         | 8CEXL030.ABA |
| Cummins         | 8CEXL0409AAB |
| Cummins         | 8CEXL0409AAC |
| Cummins         | 8CEXL0409AAD |
| Cummins         | 8CEXL045.AAA |
| Cummins         | 8CEXL050.AAA |
| Cummins         | 8CEXL050.AAC |
| Cummins         | 8CEXL050.AAD |
| Cummins         | 8CEXL050.ABA |
| Cummins         | 8CEXL0505AAE |
| Cummins         | 8CEXL0540AAB |
| Cummins         | 8CEXL060.AAB |
| Cummins         | 8CEXL060.AAD |
| Cummins         | 8CEXL0661AAF |
| Cummins         | 8CEXL0661AAG |
| Cummins         | 8CEXL0661AAH |
| Cummins         | 8CEXL0661AAJ |
| Cummins         | 8CEXL078.AAA |
| Cummins         | 8CEXL078.AAB |
| Cummins         | 8CEXL2.28A41 |
| DAIMLERCHRYSLER | 8MBXL07.2RJA |
| DAIMLERCHRYSLER | 8MBXL12.8RJB |
| DAIMLERCHRYSLER | 8MBXL15.9RJA |
| Detroit Diesel  | 8DDXL14.0VLD |

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| Deutz            | 8DZXL02.3099 |
| Deutz            | 8DZXL02.7096 |
| Deutz            | 8DZXL03.2088 |
| Deutz            | 8DZXL03.6081 |
| Deutz            | 8DZXL03.6082 |
| Deutz            | 8DZXL03.6084 |
| Deutz            | 8DZXL03.6086 |
| Deutz            | 8DZXL03.6097 |
| Deutz            | 8DZXL03.6098 |
| Deutz            | 8DZXL04.1069 |
| Deutz            | 8DZXL04.1070 |
| Deutz            | 8DZXL04.1076 |
| Deutz            | 8DZXL04.1078 |
| Deutz            | 8DZXL04.1079 |
| Deutz            | 8DZXL04.1080 |
| Deutz            | 8DZXL04.8064 |
| Deutz            | 8DZXL04.8068 |
| Deutz            | 8DZXL04.8071 |
| Deutz            | 8DZXL05.4087 |
| Deutz            | 8DZXL06.1057 |
| Deutz            | 8DZXL06.1059 |
| Deutz            | 8DZXL06.1060 |
| Deutz            | 8DZXL06.1061 |
| Deutz            | 8DZXL06.1063 |
| Deutz            | 8DZXL06.1067 |
| Deutz            | 8DZXL06.1077 |
| Deutz            | 8DZXL06.5074 |
| Deutz            | 8DZXL06.5075 |
| Deutz            | 8DZXL07.1051 |
| Deutz            | 8DZXL07.1053 |
| Deutz            | 8DZXL07.1055 |
| Deutz            | 8DZXL07.1056 |
| Deutz            | 8DZXL15.9065 |
| DOOSAN INFRACORE | 8DWXL05.8UTA |
| DOOSAN INFRACORE | 8DWXL07.6UPA |
| DOOSAN INFRACORE | 8DWXL11.0UJA |
| DOOSAN INFRACORE | 8DWXL21.9UYA |

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| HINO MOTORS  | 8HMXL05.1JTA |
| Ishikawajima | 8H3XL2.00N4T |
| Ishikawajima | 8H3XL2.22N4L |
| Ishikawajima | 8H3XL2.22N4T |
| Isuzu        | 8SZXL02.2UTA |
| Isuzu        | 8SZXL02.2UXA |
| Isuzu        | 8SZXL03.0IXA |
| Isuzu        | 8SZXL03.0JTA |
| Isuzu        | 8SZXL03.0JXA |
| Isuzu        | 8SZXL03.0JXB |
| Isuzu        | 8SZXL03.0UTB |
| Isuzu        | 8SZXL05.2HXA |
| Isuzu        | 8SZXL05.2IXA |
| Isuzu        | 8SZXL05.2IXB |
| Isuzu        | 8SZXL07.8HXA |
| Isuzu        | 8SZXL07.8HXB |
| Isuzu        | 8SZXL09.8HXA |
| Isuzu        | 8SZXL09.8HXB |
| Isuzu        | 8SZXL15.7HXA |
| Isuzu        | 8SZXL15.7HXB |
| IVECO        | 8VEXL03.2TAI |
| IVECO        | 8VEXL03.2TCE |
| IVECO        | 8VEXL03.2TCI |
| IVECO        | 8VEXL04.5DAA |
| IVECO        | 8VEXL04.5DAB |
| IVECO        | 8VEXL04.5DCA |
| IVECO        | 8VEXL04.5DCB |
| IVECO        | 8VEXL06.7DAA |
| IVECO        | 8VEXL06.7DCA |
| IVECO        | 8VEXL06.7DCB |
| IVECO        | 8VEXL06.7DCC |
| IVECO        | 8VEXL06.7DGB |
| IVECO        | 8VEXL06.7DGS |
| IVECO        | 8VEXL08.7TR3 |
| IVECO        | 8VEXL10.3MLR |
| IVECO        | 8VEXL10.3TR3 |
| IVECO        | 8VEXL12.9IGR |

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|-------------------|--------------|
| IVECO             | 8VEXL12.9MLR |
| IVECO             | 8VEXL12.9TCD |
| IVECO             | 8VEXL20.1DSL |
| JCB Power Systems | 8JCBL04.4TA7 |
| JCB Power Systems | 8JCBL04.4TA8 |
| JCB Power Systems | 8JCBL04.4TAE |
| JCB Power Systems | 8JCBL04.4TC6 |
| John Deere Power  | 8JDXL03.0064 |
| John Deere Power  | 8JDXL03.0208 |
| John Deere Power  | 8JDXL04.5075 |
| John Deere Power  | 8JDXL04.5083 |
| John Deere Power  | 8JDXL04.5107 |
| John Deere Power  | 8JDXL06.8038 |
| John Deere Power  | 8JDXL06.8039 |
| John Deere Power  | 8JDXL06.8041 |
| John Deere Power  | 8JDXL06.8049 |
| John Deere Power  | 8JDXL06.8078 |
| John Deere Power  | 8JDXL06.8080 |
| John Deere Power  | 8JDXL06.8101 |
| John Deere Power  | 8JDXL06.8104 |
| John Deere Power  | 8JDXL06.8105 |
| John Deere Power  | 8JDXL06.8106 |
| John Deere Power  | 8JDXL08.1037 |
| John Deere Power  | 8JDXL09.0102 |
| John Deere Power  | 8JDXL09.0114 |
| John Deere Power  | 8JDXL12.5035 |
| John Deere Power  | 8JDXL13.5103 |
| Komatsu           | 8KLXL0275AAG |
| Komatsu           | 8KLXL0275AAH |
| Komatsu           | 8KLXL03.3JA6 |
| Komatsu           | 8KLXL03.3JB6 |
| Komatsu           | 8KLXL03.3JD6 |
| Komatsu           | 8KLXL03.3JD7 |
| Komatsu           | 8KLXL03.3JD9 |
| Komatsu           | 8KLXL0409AAB |
| Komatsu           | 8KLXL0409AAC |
| Komatsu           | 8KLXL050.AAA |

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| Komatsu           | 8KLXL050.AAC |
| Komatsu           | 8KLXL0505AAE |
| Komatsu           | 8KLXL060.AAA |
| Komatsu           | 8KLXL060.AAB |
| Komatsu           | 8KLXL078.AAA |
| Komatsu           | 8KLXL11.0DD6 |
| Komatsu           | 8KLXL15.2ED6 |
| Komatsu           | 8KLXL15.2ED7 |
| Komatsu           | 8KLXL23.2FD5 |
| Komatsu           | 8KLXL23.2FD6 |
| Komatsu           | 8KLXL23.2FD7 |
| Komatsu           | 8KLXL30.5GD3 |
| Kubota            | 8KBXL02.4FAD |
| Kubota            | 8KBXL02.4HAD |
| Kubota            | 8KBXL02.6EAD |
| Kubota            | 8KBXL03.3CAD |
| Kubota            | 8KBXL03.6BAC |
| Kubota            | 8KBXL03.6BAD |
| Kubota            | 8KBXL03.6BCD |
| Kubota            | 8KBXL03.6DAD |
| Kubota            | 8KBXL03.8AAC |
| Kubota            | 8KBXL03.8AGD |
| Kukje Machinery   | 8KMCL2.28A41 |
| M/S. SIMPSON & C. | 8SCLL02.7V50 |
| Liebherr Machines | 8LHAL10.5LPA |
| Liebherr Machines | 8LHAL10.5LPE |
| Liebherr Machines | 8LHAL12.0KPA |
| Liebherr Machines | 8LHAL12.8RMC |
| Liebherr Machines | 8LHAL24.2VCE |
| Liebherr Machines | 8LHAL9.54SPA |
| Liebherr Werk     | 8LHAL21.9VMR |
| Mitsubishi        | 8MVXL02.5HHH |
| Mitsubishi        | 8MVXL03.3AAC |
| Mitsubishi        | 8MVXL04.2BBB |
| Mitsubishi        | 8MVXL04.2CCC |
| Mitsubishi        | 8MVXL05.0AAD |
| Mitsubishi        | 8MVXL05.0AAG |



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| Mitsubishi          | 8MVXL06.4FFF |
| Mitsubishi          | 8MVXL24.5BBA |
| Mitsubishi          | 8MVXL33.9BBA |
| Mitsubishi          | 8MVXL37.1BBA |
| Mitsubishi          | 8MVXL49.0BBA |
| Mitsubishi          | 8MVXL65.4BBA |
| MAHINDRA & MAHINDRA | 8MMLL02.5N52 |
| MAHINDRA & MAHINDRA | 8MMLL02.5N57 |
| MAHINDRA & MAHINDRA | 8MMLL02.5N59 |
| MAHINDRA & MAHINDRA | 8MMLL02.5N62 |
| MAHINDRA & MAHINDRA | 8MMLL02.5N64 |
| MAHINDRA & MAHINDRA | 8MMLL02.7M30 |
| MAHINDRA & MAHINDRA | 8MMLL03.3N75 |
| MAHINDRA & MAHINDRA | 8MMLL03.3N79 |
| MOTORENFABRIK       | 8HZXL3.43C42 |
| MOTORENFABRIK       | 8HZXL3.43V42 |
| MTU DETROIT DIESEL, | 8MDDL31.8XRR |
| MTU DETROIT DIESEL, | 8MDDL35.8GRR |
| MTU DETROIT DIESEL, | 8MDDL95.4XTR |
| NISSAN DIESEL       | 8NDXL03.2TNA |
| NISSAN DIESEL       | 8NDXL04.2TNA |
| Perkins Engines     | 8PKXL04.4NH1 |
| Perkins Engines     | 8PKXL04.4NJ1 |
| Perkins Engines     | 8PKXL04.4NJ2 |
| Perkins Engines     | 8PKXL04.4NM1 |
| Perkins Engines     | 8PKXL04.4RG3 |
| Perkins Engines     | 8PKXL06.6PJ1 |
| Perkins Engines     | 8PKXL06.6PJ2 |
| Perkins Engines     | 8PKXL15.2TA2 |
| Perkins Engines     | 8PKXL15.2TAG |
| Perkins Engines     | 8PKXL18.1TAG |
| Scania              | 8Y9XL11.7BBA |
| Scania              | 8Y9XL11.7BBB |
| Scania              | 8Y9XL15.6BDE |
| Volvo               | 8VSXL09.4CE3 |
| Volvo               | 8VSXL12.1CE3 |
| Volvo               | 8VSXL16.1CE3 |

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| Yanmar | 8YDXL2.00N4T |
| Yanmar | 8YDXL3.32C4N |
| Yanmar | 8YDXL3.32C4T |
| Yanmar | 8YDXL3.32R4N |
| Yanmar | 8YDXL3.32M4N |
| Yanmar | 8YDXL3.32M4T |

Model Year 2009 Engines

| <b>Manufacturer</b> | <b>Engine Families</b> |
|---------------------|------------------------|
| AB Volvo Penta      | 9VPXL09.4BAA           |
| AB Volvo Penta      | 9VPXL12.1BAA           |
| AB Volvo Penta      | 9VPXL12.8BCA           |
| AB Volvo Penta      | 9VPXL16.1ACB           |
| AB Volvo Penta      | 9VPXL16.1ACW           |
| AB Volvo Penta      | 9VPXL16.1BEA           |
| AB Volvo Penta      | 9VSXL09.4CE3           |
| AB Volvo Penta      | 9VSXL12.1CE3           |
| AB Volvo Penta      | 9VSXL16.1CE3           |
| Caterpillar         | 9CPXL07.2ESL           |
| Caterpillar         | 9CPXL08.8ESK           |
| Caterpillar         | 9CPXL106.T2E           |
| Caterpillar         | 9CPXL11.1ESK           |
| Caterpillar         | 9CPXL12.5ESK           |
| Caterpillar         | 9CPXL12.5ESX           |
| Caterpillar         | 9CPXL14.2ELW           |
| Caterpillar         | 9CPXL15.2ESW           |
| Caterpillar         | 9CPXL18.1ESK           |
| Caterpillar         | 9CPXL18.1ESW           |
| Caterpillar         | 9CPXL18.1ESX           |
| Caterpillar         | 9CPXL27.0ESK           |
| Caterpillar         | 9CPXL27.0ESW           |
| Caterpillar         | 9CPXL27.0ESX           |
| Caterpillar         | 9CPXL27.0ESX           |
| Caterpillar         | 9CPXL32.0ESP           |
| Caterpillar         | 9CPXL32.0ESW           |
| Caterpillar         | 9CPXL32.0ESX           |
| Caterpillar         | 9CPXL34.5T2C           |

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| Caterpillar | 9CPXL34.5T2E |
| Caterpillar | 9CPXL58.6T2E |
| Caterpillar | 9CPXL58.6T2X |
| Caterpillar | 9CPXL58.6T2Y |
| Caterpillar | 9CPXL78.1E2W |
| Caterpillar | 9CPXL78.1T2E |
| CNH UK LTD  | 9NHXL04.5DAA |
| CNH UK LTD  | 9NHXL04.5DAB |
| CNH UK LTD  | 9NHXL04.5DCA |
| CNH UK LTD  | 9NHXL04.5DCB |
| CNH UK LTD  | 9NHXL06.7DAA |
| CNH UK LTD  | 9NHXL06.7DCA |
| CNH UK LTD  | 9NHXL06.7DCB |
| CNH UK LTD  | 9NHXL06.7DCC |
| Cummins     | 9CEXL015.AAA |
| Cummins     | 9CEXL015.AAE |
| Cummins     | 9CEXL015.AAH |
| Cummins     | 9CEXL015.AAJ |
| Cummins     | 9CEXL019.AAD |
| Cummins     | 9CEXL023.AAA |
| Cummins     | 9CEXL023.AAB |
| Cummins     | 9CEXL023.AAC |
| Cummins     | 9CEXL0275AAG |
| Cummins     | 9CEXL0275AAH |
| Cummins     | 9CEXL0275AAK |
| Cummins     | 9CEXL03.3ACA |
| Cummins     | 9CEXL03.3ACB |
| Cummins     | 9CEXL03.3ACD |
| Cummins     | 9CEXL03.ACE  |
| Cummins     | 9CEXL030.AAB |
| Cummins     | 9CEXL030.AAD |
| Cummins     | 9CEXL030.ABA |
| Cummins     | 9CEXL0409AAB |
| Cummins     | 9CEXL0409AAC |
| Cummins     | 9CEXL0409AAD |
| Cummins     | 9CEXL045.AAA |
| Cummins     | 9CEXL050.AAA |

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| Cummins        | 9CEXL050.AAC |
| Cummins        | 9CEXL050.AAD |
| Cummins        | 9CEXL050.AAF |
| Cummins        | 9CEXL050.ABA |
| Cummins        | 9CEXL0505AAE |
| Cummins        | 9CEXL0540AAB |
| Cummins        | 9CEXL0540AAD |
| Cummins        | 9CEXL060.AAB |
| Cummins        | 9CEXL060.AAD |
| Cummins        | 9CEXL0661AAF |
| Cummins        | 9CEXL0661AAG |
| Cummins        | 9CEXL0661AAH |
| Cummins        | 9CEXL0661AAJ |
| Cummins        | 9CEXL078.AAA |
| Cummins        | 9CEXL2.28A41 |
| Detroit Diesel | 9DDXL14.DVLD |
| Deutz          | 9DXZL04.8071 |
| Deutz          | 9DZL04.8073  |
| Deutz          | 9DZXL02.3048 |
| Deutz          | 9DZXL02.3099 |
| Deutz          | 9DZXL02.7096 |
| Deutz          | 9DZXL03.2088 |
| Deutz          | 9DZXL03.6081 |
| Deutz          | 9DZXL03.6082 |
| Deutz          | 9DZXL03.6084 |
| Deutz          | 9DZXL03.6086 |
| Deutz          | 9DZXL03.6097 |
| Deutz          | 9DZXL03.6098 |
| Deutz          | 9DZXL04.1069 |
| Deutz          | 9DZXL04.1070 |
| Deutz          | 9DZXL04.1072 |
| Deutz          | 9DZXL04.1076 |
| Deutz          | 9DZXL04.1078 |
| Deutz          | 9DZXL04.1079 |
| Deutz          | 9DZXL04.1080 |
| Deutz          | 9DZXL04.8064 |
| Deutz          | 9DZXL04.8068 |

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| Deutz            | 9DZXL06.1057 |
| Deutz            | 9DZXL06.1059 |
| Deutz            | 9DZXL06.1060 |
| Deutz            | 9DZXL06.1061 |
| Deutz            | 9DZXL06.1063 |
| Deutz            | 9DZXL06.1067 |
| Deutz            | 9DZXL06.1077 |
| Deutz            | 9DZXL06.5074 |
| Deutz            | 9DZXL07.1051 |
| Deutz            | 9DZXL07.1053 |
| Deutz            | 9DZXL07.1055 |
| Deutz            | 9DZXL07.1056 |
| Deutz            | 9DZXL15.9065 |
| DOOSAN INFRACORE | 9DICL05.8UTA |
| DOOSAN INFRACORE | 9DICL07.6UPA |
| DOOSAN INFRACORE | 9DICL11.0UJA |
| HINO MOTORS      | 9HMXL04.0NUA |
| HINO MOTORS      | 9HMXL05.1JTA |
| HINO MOTORS      | 9HMXL07.7JTM |
| HINO MOTORS      | 9HMXL10.5PUN |
| HINO MOTORS      | 9HMXL10.5PUP |
| HINO MOTORS      | 9HXML12.9EUV |
| Isuzu            | 9SZXL02.2UXA |
| Isuzu            | 9SZXL03.0IXA |
| Isuzu            | 9SZXL03.0JTA |
| Isuzu            | 9SZXL03.0JXA |
| Isuzu            | 9SZXL03.0JXB |
| Isuzu            | 9SZXL03.0UTB |
| Isuzu            | 9SZXL05.2HXA |
| Isuzu            | 9SZXL05.2IXA |
| Isuzu            | 9SZXL05.2IXB |
| Isuzu            | 9SZXL07.8HXA |
| Isuzu            | 9SZXL07.8HXB |
| Isuzu            | 9SZXL09,8HXA |
| Isuzu            | 9SZXL09.8HXB |
| Isuzu            | 9SZXL15.7HXA |
| Isuzu            | 9SZXL15.7HXB |

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| IVECO             | 9VEXL03.2TCE |
| IVECO             | 9VEXL03.2TCI |
| IVECO             | 9VEXL04.4DCB |
| IVECO             | 9VEXL04.5DAA |
| IVECO             | 9VEXL04.5DAB |
| IVECO             | 9VEXL04.5DCA |
| IVECO             | 9VEXL06.7DAA |
| IVECO             | 9VEXL06.7DCA |
| IVECO             | 9VEXL06.7DCB |
| IVECO             | 9VEXL06.7DCC |
| IVECO             | 9VEXL06.7DGB |
| IVECO             | 9VEXL06.7DGS |
| IVECO             | 9VEXL08.7TR3 |
| IVECO             | 9VEXL10.3MLR |
| IVECO             | 9VEXL10.3TR3 |
| IVECO             | 9VEXL12.9IGR |
| IVECO             | 9VEXL12.9MLR |
| IVECO             | 9VEXL12.9TCD |
| IVECO             | 9VEXL20.1DSL |
| JCB Power Systems | 9JCBL04.4TA7 |
| JCB Power Systems | 9JCBL04.4TA8 |
| JCB Power Systems | 9JCBL04.4TAE |
| JCB Power Systems | 9JCBL04.4TC6 |
| John Deere Power  | 9JDXL03.0064 |
| John Deere Power  | 9JDXL03.0113 |
| John Deere Power  | 9JDXL03.0203 |
| John Deere Power  | 9JDXL03.0208 |
| John Deere Power  | 9JDXL04.5083 |
| John Deere Power  | 9JDXL04.5107 |
| John Deere Power  | 9JDXL06.8049 |
| John Deere Power  | 9JDXL06.8080 |
| John Deere Power  | 9JDXL06.8101 |
| John Deere Power  | 9JDXL06.8104 |
| John Deere Power  | 9JDXL06.8105 |
| John Deere Power  | 9JDXL06.8106 |
| John Deere Power  | 9JDXL08.1037 |
| John Deere Power  | 9JDXL09.0102 |

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| John Deere Power  | 9JDXL09.0114 |
| John Deere Power  | 9JDXL13.5103 |
| Komatsu           | 9KLXL0275AAG |
| Komatsu           | 9KLXL0275AAH |
| Komatsu           | 9KLXL03.3JA6 |
| Komatsu           | 9KLXL03.3JB6 |
| Komatsu           | 9KLXL03.3JD6 |
| Komatsu           | 9KLXL03.3JD7 |
| Komatsu           | 9KLXL0409AAB |
| Komatsu           | 9KLXL0409AAC |
| Komatsu           | 9KLXL050.AAA |
| Komatsu           | 9KLXL050.AAC |
| Komatsu           | 9KLXL0505AAE |
| Komatsu           | 9KLXL060.AAA |
| Komatsu           | 9KLXL060.AAB |
| Komatsu           | 9KLXL11.0DD6 |
| Komatsu           | 9KLXL15,2ED7 |
| Komatsu           | 9KLXL15.2ED6 |
| Komatsu           | 9KLXL23.2FD5 |
| Komatsu           | 9KLXL23.2FD6 |
| Komatsu           | 9KLXL23.2FD7 |
| Komatsu           | 9KLXL30.5GD3 |
| Komatsu           | 9XLXL03.3JD9 |
| Kubota            | 9KBXL02.4FAD |
| Kubota            | 9KBXL02.4HAD |
| Kubota            | 9KBXL02.6EAD |
| Kubota            | 9KBXL03.3CAD |
| Kubota            | 9KBXL03.6BAC |
| Kubota            | 9KBXL03.6BAD |
| Kubota            | 9KBXL03.6BCD |
| Kubota            | 9KBXL03.6DAD |
| Kubota            | 9KBXL03.8AAC |
| Kubota            | 9KBXL03.8AGD |
| Kubota            | 9KBXL03.8AHD |
| Kubota            | 9KBXL06.1AHD |
| Kukje Machinery   | 9KMCL2.28A41 |
| Liebherr Machines | 9LHAL10.5LPA |

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| Liebherr Machines  | 9LHAL10.5LPE |
| Liebherr Machines  | 9LHAL12.0KPA |
| Liebherr Machines  | 9LHAL12/8RMC |
| Liebherr Machines  | 9LHAL24.2VCE |
| Liebherr Machines  | 9LHAL24.2VCI |
| LOMBARDINI MOTORI  | 9LBDL2.19CH2 |
| Mitsubishi         | 9MFTL02.8M4B |
| Mitsubishi         | 9MFTL04.9M5A |
| Mitsubishi         | 9MFTL07.5M6A |
| Mitsubishi         | 9MFTL12.9M7A |
| Mitsubishi         | 9MVXL03.3AAC |
| Mitsubishi         | 9MVXL03.3AAH |
| Mitsubishi         | 9MVXL04.2BBB |
| Mitsubishi         | 9MVXL04.2CCC |
| Mitsubishi         | 9MVXL05.0AAD |
| Mitsubishi         | 9MVXL06.4FFF |
| Mitsubishi         | 9MVXL24.5BBA |
| Mitsubishi         | 9MVXL33.9BBA |
| Mitsubishi         | 9MVXL37.1BBA |
| Mitsubishi         | 9MVXL49.0BBA |
| Mitsubishi         | 9MVXL65.4BBA |
| MOTORENFABRIK      | 9HZXL2.57C41 |
| MOTORENFABRIK      | 9HZXL2.57V41 |
| MOTORENFABRIK      | 9HZXL3.43C42 |
| MOTORENFABRIK      | 9HZXL3.43V42 |
| MTU DETROIT DIESEL | 9MDDL31.8XRR |
| MTU DETROIT DIESEL | 9MDDL35.8GRR |
| NAVISTAR           | 9NVXL0466ANA |
| NISSAN DIESEL      | 9NDXL03.2TNA |
| NISSAN DIESEL      | 9NDXL04.2TNA |
| Perkins Engines    | 9PKXL04.4NJ1 |
| Perkins Engines    | 9PKXL04.4NJ2 |
| Perkins Engines    | 9PKXL04.4NM1 |
| Perkins Engines    | 9PKXL04.4NM2 |
| Perkins Engines    | 9PKXL04.4RG3 |
| Perkins Engines    | 9PKXL06.6PJ1 |
| Perkins Engines    | 9PKXL06.6PJ2 |



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| Perkins Engines   | 9PKXL12.5TAG |
| Perkins Engines   | 9PKXL15.2TAG |
| Perkins Engines   | 9PKXL15.2TAG |
| Perkins Engines   | 9PKXL18.1TAG |
| Scania            | 9Y9XL11.7BBA |
| Scania            | 9Y9XL11.7BBB |
| Scania            | 9Y9XL15.6BDE |
| TOYOTA INDUSTRIAL | 9TALL02.51DZ |
| Yanmar            | 9YDXL2.00N4T |
| Yanmar            | 9YDXL3.05K4N |
| Yanmar            | 9YDXL3.32C4N |
| Yanmar            | 9YDXL3.32C4T |
| Yanmar            | 9YDXL3.32M4N |
| Yanmar            | 9YDXL3.32M4T |

#### Model Year 2010 Engines

| <b>Manufacturer</b> | <b>Engine Families</b> |
|---------------------|------------------------|
| AB Volvo Penta      | AVPXL16.1ACB           |
| AB Volvo Penta      | AVPXL16.1ACG           |
| AB Volvo Penta      | AVPXL16.1ACW           |
| AGCO Sisu           | ASIDL07.4G5C           |
| CATERPILLAR         | ACPXL07.2ESL           |
| CATERPILLAR         | ACPXL08.8ESK           |
| CATERPILLAR         | ACPXL08.8ESL           |
| CATERPILLAR         | ACPXL08.8ESX           |
| CATERPILLAR         | ACPXL10.3ESL           |
| CATERPILLAR         | ACPXL11.1ESK           |
| CATERPILLAR         | ACPXL12.5ESK           |
| CATERPILLAR         | ACPXL12.5ESX           |
| CATERPILLAR         | ACPXL14.6ESK           |
| CATERPILLAR         | ACPXL15.2ELW           |
| CATERPILLAR         | ACPXL15.2ESW           |
| CATERPILLAR         | ACPXL15.2ESX           |
| CATERPILLAR         | ACPXL18.1ESK           |
| CATERPILLAR         | ACPXL18.1ESW           |
| CATERPILLAR         | ACPXL18.1ESX           |

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| CATERPILLAR | ACPXL27.0ESK |
| CATERPILLAR | ACPXL27.0ESW |
| CATERPILLAR | ACPXL27.0ESX |
| CATERPILLAR | ACPXL32.0ESP |
| CATERPILLAR | ACPXL32.0ESW |
| CATERPILLAR | ACPXL32.0ESX |
| CATERPILLAR | ACPXL34.5T2C |
| CATERPILLAR | ACPXL34.5T2E |
| CATERPILLAR | ACPXL58.6T2E |
| CATERPILLAR | ACPXL58.6T2X |
| CATERPILLAR | ACPXL58.6T2Y |
| CATERPILLAR | ACPXL78.1E2W |
| CATERPILLAR | ACPXL78.1ERK |
| CATERPILLAR | ACPXL78.1T2E |
| CATERPILLAR | ACPXL78.1T2X |
| CATERPILLAR | ACPXL106.T2E |
| CATERPILLAR | ACPXL106.T2M |
| CNH UK      | ANHXL04.5DCB |
| Cummins     | ACEXL2.28A41 |
| Cummins     | ACEXL03.3ACA |
| Cummins     | ACEXL03.3ACB |
| Cummins     | ACEXL03.3ACD |
| Cummins     | ACEXL03.3ACE |
| Cummins     | ACEXL03.3BAA |
| Cummins     | ACEXL015.AAE |
| Cummins     | ACEXL015.AAH |
| Cummins     | ACEXL015.AAJ |
| Cummins     | ACEXL019.AAD |
| Cummins     | ACEXL023.AAA |
| Cummins     | ACEXL023.AAB |
| Cummins     | ACEXL023.AAC |
| Cummins     | ACEXL030.AAB |
| Cummins     | ACEXL030.AAD |
| Cummins     | ACEXL030.ABA |
| Cummins     | ACEXL045.AAA |
| Cummins     | ACEXL050.AAA |
| Cummins     | ACEXL050.AAC |

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| Cummins          | ACEXL050.AAD |
| Cummins          | ACEXL050.AAF |
| Cummins          | ACEXL050.ABA |
| Cummins          | ACEXL060.AAB |
| Cummins          | ACEXL060.AAD |
| Cummins          | ACEXL060.AAE |
| Cummins          | ACEXL078.AAA |
| Cummins          | ACEXL078.AAE |
| Cummins          | ACEXL0275AAG |
| Cummins          | ACEXL0275AAH |
| Cummins          | ACEXL0275AAK |
| Cummins          | ACEXL0409AAB |
| Cummins          | ACEXL0409AAC |
| Cummins          | ACEXL0409AAD |
| Cummins          | ACEXL0505AAE |
| Cummins          | ACEXL0540AAB |
| Cummins          | ACEXL0540AAC |
| Cummins          | ACEXL0540AAD |
| Cummins          | ACEXL0661AAF |
| Cummins          | ACEXL0661AAG |
| Cummins          | ACEXL0661AAJ |
| Daimler AG       | AMBXL07.2RJA |
| Daimler AG       | AMBXL12.8RJB |
| Daimler AG       | AMBXL15.9RJA |
| Detroit Diesel   | ADDXL14.0WLD |
| DEUTZ AG         | ADZXL07.1052 |
| Doosan Infracore | ADICL05.8UTA |
| Doosan Infracore | ADICL07.6UPA |
| Doosan Infracore | ADICL11.0UJA |
| Doosan Infracore | ADICL18.3USA |
| Doosan Infracore | ADICL21.9UYA |
| Hyundai          | AHYXL03.9TDI |
| IHI Shibaura     | AH3XL2.00N4T |
| IHI Shibaura     | AH3XL2.22N4L |
| IVECO            | AVEXL04.5DCB |
| IVECO            | AVEXL06.7DGB |
| IVECO            | AVEXL06.7DGS |

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| IVECO      | AVEXL08.7TR3 |
| IVECO      | AVEXL10.3MLR |
| IVECO      | AVEXL10.3TR3 |
| IVECO      | AVEXL12.9IGR |
| IVECO      | AVEXL12.9MLR |
| IVECO      | AVEXL12.9TCD |
| IVECO      | AVEXL20.1DSL |
| JCB        | AJCBL04.4TA7 |
| JCB        | AJCBL04.4TA8 |
| JCB        | AJCBL04.4TAE |
| JCB        | AJCBL04.4TC6 |
| John Deere | AJDXL03.0064 |
| John Deere | AJDXL03.0113 |
| John Deere | AJDXL03.0203 |
| John Deere | AJDXL03.0206 |
| John Deere | AJDXL03.0208 |
| John Deere | AJDXL04.5083 |
| John Deere | AJDXL04.5107 |
| John Deere | AJDXL06.8049 |
| John Deere | AJDXL06.8078 |
| John Deere | AJDXL06.8080 |
| John Deere | AJDXL06.8104 |
| John Deere | AJDXL06.8105 |
| John Deere | AJDXL06.8106 |
| John Deere | AJDXL06.8117 |
| John Deere | AJDXL08.1037 |
| John Deere | AJDXL09.0114 |
| Komatsu    | AKLXL0409AAB |
| Komatsu    | AKLXL050.AAC |
| Komatsu    | AKLXL0505AAE |
| Komatsu    | AKLXL060.AAB |
| Komatsu    | AKLXL0275AAG |
| Komatsu    | AKLXL0275AAH |
| Komatsu    | AKLXL03.3JA6 |
| Komatsu    | AKLXL03.3JB6 |
| Komatsu    | AKLXL03.3JD6 |
| Komatsu    | AKLXL03.3JD7 |

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| Komatsu            | AKLXL03.3JD9 |
| Komatsu            | AKLXL0409AAC |
| Komatsu            | AKLXL050.AAA |
| Komatsu            | AKLXL060.AAA |
| Komatsu            | AKLXL078.AAA |
| Komatsu            | AKLXL23.2FD5 |
| Komatsu            | AKLXL23.2FD6 |
| Komatsu            | AKLXL23.2FD7 |
| Komatsu            | AKLXL30.5GD3 |
| KUBOTA             | AKBXL02.4HAD |
| KUBOTA             | AKBXL03.6BCD |
| Kukje              | AKMCL2.28A41 |
| Kukje              | AKMCL2.39A44 |
| Liebherr           | ALHAL10.5LPA |
| Liebherr           | ALHAL12.0KPA |
| Liebherr           | ALHAL24.2VCI |
| Liebherr           | ALHAL9.54SPA |
| Mitsubishi Fuso    | AMFTL02.8M4B |
| Mitsubishi         | AMVXL02.5HHH |
| Mitsubishi         | AMVXL03.3AAC |
| Mitsubishi         | AMVXL03.3AAE |
| Mitsubishi         | AMVXL03.3AAH |
| Mitsubishi         | AMVXL04.2BBB |
| Mitsubishi         | AMVXL04.2CCC |
| Mitsubishi         | AMVXL05.0AAD |
| Mitsubishi         | AMVXL05.0AAG |
| Mitsubishi         | AMVXL06.4FFF |
| Mitsubishi         | AMVXL24.5BBA |
| Mitsubishi         | AMVXL33.9BBA |
| Mitsubishi         | AMVXL37.1BBA |
| Mitsubishi         | AMVXL49.0BBA |
| Mitsubishi         | AMVXL65.4BBA |
| Mitsubishi         | AMVXL65.4BBB |
| MTU Detroit Diesel | AMDDL21.0GWR |
| MTU Detroit Diesel | AMDDL31.8XRR |
| MTU Detroit Diesel | AMDDL35.8GRR |
| MTU Detroit Diesel | AMDDL90.0GTP |

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| MTU Detroit Diesel | AMDDL95.4GTP |
| MTU Detroit Diesel | AMDDL95.4XTR |
| Nissan Diesel      | ANDXL02.7TNA |
| Nissan Diesel      | ANDXL03.2TNA |
| Nissan Diesel      | ANDXL04.2TNA |
| Perkins            | APKXL04.4NJ1 |
| Perkins            | APKXL04.4NJ2 |
| Perkins            | APKXL04.4NM1 |
| Perkins            | APKXL04.4NM2 |
| Perkins            | APKXL04.4RG3 |
| Perkins            | APKXL06.6PJ1 |
| Perkins            | APKXL06.6PJ2 |
| Perkins            | APKXL12.5TAG |
| Perkins            | APKXL15.2TA2 |
| Perkins            | APKXL15.2TAG |
| Perkins            | APKXL18.1TAG |
| SCANIA             | AY9XL11.7BBA |
| SCANIA             | AY9XL11.7BBB |
| SCANIA             | AY9XL15.6BDE |
| TOYOTA             | ATALL02.51DZ |
| TOYOTA             | ATALL03.503Z |
| TOYOTA             | ATALL05.215Z |
| VM Motori          | AV5XL04.5T60 |
| Yanmar             | AYDXL3.32R4N |
| Zhejiang Xinchai   | AZHXL3.17AAA |

Model Year 2011 Engines

| <b>Manufacturer</b> | <b>Engine Families</b> |
|---------------------|------------------------|
| AB Volvo Penta      | BVPXL16.1ACB           |
| AB Volvo Penta      | BVPXL16.1ACG           |
| AB Volvo Penta      | BVPXL16.1ACW           |
| AGCO Sisu           | BSIDL07.4G4E           |
| AGCO Sisu           | BSIDL07.4G5C           |
| Caterpillar Inc.    | BCPXL08.8NZS           |
| Caterpillar Inc.    | BCPXL106.NZS           |
| Caterpillar Inc.    | BCPXL11.1ESK           |
| Caterpillar Inc.    | BCPXL12.5ESK           |

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| Caterpillar Inc. | BCPXL15.2ESW |
| Caterpillar Inc. | BCPXL15.2NYS |
| Caterpillar Inc. | BCPXL15.2NZS |
| Caterpillar Inc. | BCPXL18.1ESK |
| Caterpillar Inc. | BCPXL18.1NYS |
| Caterpillar Inc. | BCPXL18.1NZS |
| Caterpillar Inc. | BCPXL27.0NZS |
| Caterpillar Inc. | BCPXL32.0NZS |
| Caterpillar Inc. | BCPXL78.1NZS |
| CNH UK LTD       | BNHXL04.5DCB |
| CNH UK LTD       | BNHXL06.7DCA |
| CNH UK LTD       | BNHXL06.7DCB |
| Cummins Inc.     | BCEXL015.AAH |
| Cummins Inc.     | BCEXL015.AAJ |
| Cummins Inc.     | BCEXL023.AAB |
| Cummins Inc.     | BCEXL0275AAG |
| Cummins Inc.     | BCEXL0275AAH |
| Cummins Inc.     | BCEXL0275AAK |
| Cummins Inc.     | BCEXL03.3ACA |
| Cummins Inc.     | BCEXL03.3ACB |
| Cummins Inc.     | BCEXL03.3ACD |
| Cummins Inc.     | BCEXL03.3ACE |
| Cummins Inc.     | BCEXL030.AAD |
| Cummins Inc.     | BCEXL0409AAB |
| Cummins Inc.     | BCEXL0409AAC |
| Cummins Inc.     | BCEXL0409AAD |
| Cummins Inc.     | BCEXL050.AAC |
| Cummins Inc.     | BCEXL050.AAD |
| Cummins Inc.     | BCEXL0505AAE |
| Cummins Inc.     | BCEXL0540AAB |
| Cummins Inc.     | BCEXL060.AAB |
| Cummins Inc.     | BCEXL060.AAD |
| Daimler AG       | BMBXL04.3RJA |
| Detroit Diesel   | BDDXL14.0WLD |
| Doosan Infracore | BDICL05.8UTA |
| Doosan Infracore | BDICL18.3USA |
| Doosan Infracore | BDICL21.9UYA |
| Hyundai          | BHYXL03.9TDI |
| IHI Shibaura     | BH3XL2.00N4T |

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| IHI Shibaura    | BH3XL2.22N4L |
| Iseki Matsuyama | BICLL2.96D4H |
| Iseki Matsuyama | BICLL3.37D4H |
| Iseki Matsuyama | BICLL3.37D4I |
| IVECO S.p.A.    | BVEXL03.2TAI |
| IVECO S.p.A.    | BVEXL04.5DAA |
| IVECO S.p.A.    | BVEXL04.5DAB |
| IVECO S.p.A.    | BVEXL04.5DCA |
| IVECO S.p.A.    | BVEXL04.5DCB |
| IVECO S.p.A.    | BVEXL06.7DAA |
| IVECO S.p.A.    | BVEXL06.7DCA |
| IVECO S.p.A.    | BVEXL06.7DCB |
| IVECO S.p.A.    | BVEXL06.7DCC |
| IVECO S.p.A.    | BVEXL06.7DGB |
| IVECO S.p.A.    | BVEXL06.7DGS |
| IVECO S.p.A.    | BVEXL08.7TR3 |
| IVECO S.p.A.    | BVEXL10.3TR3 |
| IVECO S.p.A.    | BVEXL12.9IGR |
| JCB             | BJCBL04.4TA7 |
| JCB             | BJCBL04.4TA8 |
| JCB             | BJCBL04.4TAE |
| JCB             | BJCBL04.4TC6 |
| John Deere      | BJDXL03.0064 |
| John Deere      | BJDXL03.0113 |
| John Deere      | BJDXL03.0203 |
| John Deere      | BJDXL03.0206 |
| John Deere      | BJDXL03.0208 |
| John Deere      | BJDXL04.5107 |
| John Deere      | BJDXL04.5130 |
| John Deere      | BJDXL06.8078 |
| John Deere      | BJDXL06.8104 |
| John Deere      | BJDXL06.8105 |
| John Deere      | BJDXL06.8106 |
| John Deere      | BJDXL06.8117 |
| John Deere      | BJDXL06.8120 |
| John Deere      | BJDXL09.0114 |
| John Deere      | BJDXL13.5132 |
| Komatsu Ltd     | BKLXL0275AAG |
| Komatsu Ltd     | BKLXL0275AAH |



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| Komatsu Ltd        | BKLXL03.3JA6 |
| Komatsu Ltd        | BKLXL03.3JB6 |
| Komatsu Ltd        | BKLXL03.3JD6 |
| Komatsu Ltd        | BKLXL03.3JD7 |
| Komatsu Ltd        | BKLXL03.3JD9 |
| Komatsu Ltd        | BKLXL0409AAC |
| Komatsu Ltd        | BKLXL050.AAC |
| Komatsu Ltd        | BKLXL060.AAB |
| Komatsu Ltd        | BKLXL23.2FD5 |
| KUBOTA             | BKBXL02.4HAD |
| KUBOTA             | BKBXL03.6BCD |
| Kukje              | BKMCL2.28A41 |
| Kukje              | BKMCL2.39A44 |
| Kukje              | BKMCL3.41D42 |
| Mitsubishi         | BMVXL02.5HHH |
| Mitsubishi         | BMVXL03.3AAC |
| Mitsubishi         | BMVXL03.3AAH |
| Mitsubishi         | BMVXL04.2BBB |
| Mitsubishi         | BMVXL04.2CCC |
| Mitsubishi         | BMVXL05.0AAD |
| Mitsubishi         | BMVXL05.0AAG |
| Mitsubishi         | BMVXL06.4FFF |
| Mitsubishi         | BMVXL24.5BBA |
| Mitsubishi         | BMVXL33.9BBA |
| Mitsubishi         | BMVXL37.1BBA |
| Mitsubishi         | BMVXL49.0BBA |
| Mitsubishi         | BMVXL65.4BBA |
| Mitsubishi         | BMVXL65.4BBB |
| Mitsubishi Fuso    | BMFTL02.8M4B |
| MTU Detroit Diesel | BMDDL14.0ZWK |
| MTU Detroit Diesel | BMDDL21.0ZWR |
| MTU Detroit Diesel | BMDDL31.8XRR |
| MTU Detroit Diesel | BMDDL35.8GRR |
| MTU Detroit Diesel | BMDDL95.4XTR |
| Perkins            | BPKXL04.4NJ1 |
| Perkins            | BPKXL04.4NJ2 |
| Perkins            | BPKXL04.4NM1 |
| Perkins            | BPKXL04.4NM2 |
| Perkins            | BPKXL04.4RG3 |

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| Perkins      | BPKXL06.6PJ1 |
| Perkins      | BPKXL06.6PJ2 |
| Perkins      | BPKXL06.6PJ3 |
| Perkins      | BPKXL12.5TAG |
| Perkins      | BPKXL15.2TA2 |
| Perkins      | BPKXL15.2TAG |
| Perkins      | BPKXL18.1TAG |
| Simpson & Co | BSCLL02.7V58 |
| Simpson & Co | BSCLL03.6V74 |
| TOYOTA       | BTALL02.51DZ |
| TOYOTA       | BTALL05.215Z |
| UD Trucks    | BNDXL02.7TNA |
| UD Trucks    | BNDXL03.2TNA |
| UD Trucks    | BNDXL04.2TNA |
| VM Motori    | BV5XL04.5T60 |
| Yanmar       | BYDXL3.32R4N |