

**ARB-Approved Engine Families for the Donaldson LNF System
 Relating to Executive Order Series DE-09-009
 Effective Date: June 29, 2012**

Table 2: ARB-Approved Federal Engine Families for the Donaldson LNF System

| Model Year | Manufacturer | Engine Family | Displacement (L) |
|-------------------|---------------------|----------------------|-------------------------|
| 1994 | Caterpillar | RCP403DZDARW | 6.6 |
| 1994 | Caterpillar | RCP403DZDASW | 6.6 |
| 1994 | Cummins | RCE359D6DASW | 5.9 |
| 1994 | Cummins | RCE505D6DARW | 8.3 |
| 1994 | Cummins | RCE505F6DABW | 8.3 |
| 1994 | Detroit Diesel | RDD12.EJDASW | 12.7 |
| 1994 | Detroit Diesel | RDD8.5FJDARW | 8.5 |
| 1994 | International | RNV444C8DARA | 7.3 |
| 1994 | International | RNV530D6DARW | 8.7 |
| 1994 | General Motors | RGM6.5C6DAAA | 6.5 |
| 1994 | Mack | RMK728EGDATW | 11.9 |
| 1994 | Mack | RMK728EJDARW | 11.9 |
| 1994 | Mack | RMK12.EJDARW | 12 |
| 1994 | Mack | RMK728EGDASW | 11.9 |
| 1994 | Mack | RMK728EJDASW | 11.9 |
| 1994 | Mack | RMK728EJDATW | 11.9 |
| 1994 | Mercedes | RMB10.E6DARA | 10 |
| 1994 | Mercedes | RMB12.E6DARA | 12 |
| 1994 | Perkins | RPK365DGDAAA | 5.9 |
| 1994 | Saab-Scania | RSA673E6DARA | 11 |
| | | | |
| 1995 | Caterpillar | SCP403DZDARW | 6.6 |
| 1995 | Caterpillar | SCP893EZDARW | 14.6 |
| 1995 | Cummins | SCE359D6DARW | 5.9 |
| 1995 | Cummins | SCE505D6DARW | 8.3 |
| 1995 | Cummins | SCE505F6DABW | 8.3 |
| 1995 | Detroit Diesel | SDD12.EJDASW | 12.7 |
| 1995 | International | SNV444C8DAAA | 7.3 |
| 1995 | International | SNV444C8DARW | 7.3 |
| 1995 | International | SNV444C8DASW | 7.3 |
| 1995 | Isuzu | SSZ7.1D6DARW | 7.1 |
| 1995 | Mack | SMK12.EJDARW | 11.9 |
| 1995 | Mack | SMK728EGDASW | 11.9 |
| 1995 | Mack | SMK728EGDATW | 11.9 |
| 1995 | Mack | SMK728EJDARW | 11.9 |
| 1995 | Mack | SMK728EJDASW | 11.9 |
| 1995 | Mack | SMK728EJDATW | 11.9 |
| 1995 | Mercedes Benz | SMB10.E6DARA | 10 |
| 1995 | Mercedes Benz | SMB12.E6DARA | 12 |
| 1995 | Mitsubishi | SMT238B7DAAA | 3.9 |
| 1995 | Mitsubishi | SMT460D7DARW | 7.5 |
| 1995 | Renault | SR3377D8DARW | 6.2 |
| 1995 | Renault | SR3377D8DASW | 6.2 |
| | | | |
| 1997 | Cummins | VCE359D6DARW | 5.9 |
| 1997 | Mack | VMK728EJDARW | 11.9 |
| 1997 | Mack | VMK728EJDASW | 11.9 |
| 1997 | Mack | VMK12.EJDARW | 11.9 |
| 1997 | Mack | VMK602E6DARW | 9.9 |

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|-------------------|-------------------------|----------------------|-------------------------|
| 1998 | Caterpillar | WCPXH0638MRW | 10.5 |
| 1998 | Caterpillar | WCPXH0893MRW | 14.6 |
| 1998 | Cummins | WCEXH0239BAA | 3.9 |
| 1998 | Cummins | WCEXH0359BAB | 5.9 |
| 1998 | Cummins | WCEXH0359BAC | 5.9 |
| 1998 | Cummins | WCEXH0359BAG | 5.9 |
| 1998 | Cummins | WCEXH0505CAA | 8.3 |
| 1998 | Cummins | WCEXH0661MAF | 10.8 |
| 1998 | Mack | WMKXH0602M48 | 9.8 |
| 1998 | Mack | WMKXH0728V40 | 11.9 |
| 1998 | Mack | WMKXH0728V41 | 11.9 |
| 1998 | Mack | WMKXH0728V43 | 11.9 |
| 1998 | Mack | WMKXH0728M44 | 11.9 |
| 1998 | International | WNVXH0466ENE | 7.6 |
| 1998 | International | WNVXH0466FNA | 7.6 |
| 1998 | International | WNVXH0466FNC | 7.6 |
| 1998 | International | WNVXH0530FNA | 8.7 |
| 1998 | International | WNVXH0530FNC | 8.7 |
| 1998 | International | WNVXH0444FNA | 7.3 |
| 1998 | International | WNVXH0444FNC | 7.3 |
| 1998 | Renault | WR3XH0377BNF | 6.2 |
| 1998 | Scania | WY9XH11.7203 | 11.7 |
| 1999 | | | |
| 1999 | Caterpillar | XCPXH0638MRW | 10.5 |
| 1999 | Caterpillar | XCPXH0893MRW | 14.6 |
| 1999 | Cummins | XCEXH0239BAA | 3.9 |
| 1999 | Cummins | XCEXH0359BAM | 5.9 |
| 1999 | Cummins | XCEXH0359BAQ | 5.9 |
| 1999 | Cummins | XCEXH0359BAR | 5.9 |
| 1999 | General Motors | XGMXH06.5522 | 6.5 |
| 1999 | International | XNVXH0444ACC | 7.3 |
| 1999 | International | XNVXH07.3FCC | 7.3 |
| 1999 | International | XNVXH07.3FNH | 7.3 |
| 1999 | Renault | XR3XH0377BNF | 6.2 |
| 1999 | Renault | XR3XH0377BWF | 6.2 |
| 2000 | | | |
| 2000 | Cummins | YCEXH0239BAA | 3.9 |
| 2000 | Cummins | YCEXH0359BAA | 5.9 |
| 2000 | Cummins | YCEXH0359BAX | 5.9 |
| 2000 | Cummins | YCEXH0359BAY | 5.9 |
| 2000 | Mercedes | YMBXH12.0DJA | 12 |
| 2000 | General Engine Products | YGEPH06.5524 | 6.5 |
| 2000 | General Motors | YGMXH06.5528 | 6.5 |
| 2000 | General Motors | YGMXH06.5529 | 6.5 |
| 2000 | General Motors | YGMXH06.5522 | 6.5 |
| 2000 | International | YNVXA07.3CND | 7.3 |
| 2000 | International | YNVXH07.3ANC | 7.3 |
| 2000 | International | YNVXH07.3FNB | 7.3 |
| 2000 | Renault | YR3XH0377BWF | 6.2 |
| 2000 | Scania | YY9XH10.6106 | 10.6 |
| 2000 | Scania | YY9XH11.7202 | 11.7 |

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|-------------------|-------------------------|----------------------|-------------------------|
| 2001 | Cummins | 1CEXH0359BAX | 5.9 |
| 2001 | Cummins | 1CEXH0359BAA | 5.9 |
| 2001 | Cummins | 1CEXH0359BAY | 5.9 |
| 2001 | General Engine Products | 1GEPH06.5522 | 6.5 |
| 2001 | General Motors | 1GMXH06.5528 | 6.5 |
| 2001 | General Motors | 1GMXH06.5529 | 6.5 |
| 2001 | International | 1NVXH07.3FNB | 7.3 |
| 2001 | Isuzu | 1SZXH06.63RA | 6.6 |
| 2001 | Renault | 1R3XH0377BWF | 6.2 |
| 2001 | Scania | 1Y9XH11.7202 | 11.7 |
| 2001 | Scania | 1Y9XH10.6106 | 10.6 |
| | | | |
| 2002 | Cummins | 2CEXH0359BAD | 5.9 |
| 2002 | Cummins | 2CEXH0359BAX | 5.9 |
| 2002 | Cummins | 2CEXH0359BAE | 5.9 |
| 2002 | General Motors | 2GMXH06.5528 | 6.5 |
| 2002 | General Motors | 2GMXH06.5529 | 6.5 |
| 2002 | International | 2NVXH0530ACT | 8.7 |
| 2002 | International | 2NVXH07.3FNB | 7.3 |
| 2002 | Isuzu | 2SZXH06.63RA | 6.6 |
| 2002 | Scania | 2Y9XH10.6106 | 10.6 |
| 2002 | Scania | 2Y9XH11.7202 | 11.7 |
| | | | |
| 2003 | Cummins | 3CEXH0359BAE | 5.9 |
| 2003 | Cummins | 3CEXH0359BAI | 5.9 |
| 2003 | Cummins | 3CEXH0505CAM | 8.3 |
| 2003 | Cummins | 3CEXH0505CAQ | 8.3 |
| 2003 | Cummins | 3CEXH0540LAB | 8.8 |
| 2003 | International | 3NVXH0530ACT | 8.7 |
| | | | |
| 2004 | Cummins | 4CEXH0239BAD | 3.9 |
| | | | |
| 2005 | General Engine Products | 5GEPH06.5CRD | 6.5 |