

## ATTACHMENT 1

### ARB-Approved Engine Families for the Cleaire Lonestar System

Model Year	Manufacturer	Engine Family	Displacement (L)			
			1	2	3	4
1996	Caterpillar	TCP7.2RZDBRK	7.2	*	*	*
1996	Caterpillar	TCP10.RZDBRK	10.3	*	*	*
1996	Caterpillar	TCP10.RZDBRD	10.5	*	*	*
1996	Caterpillar	TCP10.RZDBRF	10.5	*	*	*
1996	Cummins	TCE359R6DTRA	5.9	*	*	*
1996	Cummins	TCE505R6DTRD	8.3	*	*	*
1996	Cummins	TCE661RGDTRA	10.8	*	*	*
1996	Deere	TJD8.1R6DBRB	8.1	*	*	*
1996	Deere	TJD10.RJDBRA	10.5	*	*	*
1996	Deere	TJD10.RJDBRB	10.5	*	*	*
1996	Detroit Diesel Corporation	TDD8.5TJDARE	8.5	*	*	*
1996	Deutz	TDZ7.1R6DARB	7.1	*	*	*
1996	International	TNV466R6DARA	7.6	*	*	*
1996	International	TNV466R6DARB	7.6	*	*	*
1996	International	TNV466R6DASD	7.6	*	*	*
1996	International	TNV530R6DARA	8.7	*	*	*
1996	International	TNV530R6DARB	8.7	*	*	*
1996	International	TNV530R6DASC	8.7	*	*	*
1996	International	TNV530R6DASD	8.7	*	*	*
1996	International	TNV530R8DASE	8.7	*	*	*
1996	Iveco	TVE9.5R6DARA	9.5	*	*	*
1996	Liebherr Machines Bulle SA	TLH9.9R6DARA	10	6.6	*	*
1996	Liebherr Machines Bulle SA	TLH9.9R6DASA	10	6.6	*	*
1996	Mercedes-Benz	TMB13.R6DARA	9.6	*	*	*
1996	Volvo Construction Equipment	TVS6.7R6DARA	6.7	*	*	*
1996	Volvo Construction Equipment	TVS9.6R6DARA	9.6	*	*	*
1997	AB Volvo Penta	VVP6.7R6DARA	6.7	*	*	*
1997	Caterpillar	VCP442DZDARK	7.1	*	*	*
1997	Caterpillar	VCP7.2RZDARK	7.2	*	*	*
1997	Caterpillar	VCP10.RZDARK	10.3	*	*	*
1997	Cummins	VCE359R6DTRB	5.9	*	*	*
1997	Cummins	VCE505R6DTRD	8.3	*	*	*
1997	Cummins	VCE661RGDTRA	10.8	*	*	*
1997	DaimlerChrysler	VMB13.R6DARA	9.6	*	*	*
1997	Deere	VJD10.RJDBRB	10.1	*	*	*
1997	Deere	VJD10.RJDBRA	10.5	*	*	*
1997	Detroit Diesel Corporation	VDD8.5TJDARE	8.5	*	*	*
1997	Deutz	VDZ7.1R6DARB	7.2	*	*	*
1997	International	VNV466R6DASC	7.6	*	*	*
1997	International	VNV466R6DASD	7.6	*	*	*
1997	International	VNV530R6DARA	8.7	7.6	*	*
1997	International	VNV530R6DARB	8.7	7.6	*	*
1997	International	VNV530R6DASC	8.7	*	*	*
1997	International	VNV530R6DASD	8.7	*	*	*
1997	International	VNV530R8DARA	8.7	*	*	*
1997	International	VNV530R8DASC	8.7	*	*	*

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Model Year	Manufacturer	Engine Family	Displacement (L)			
			1	2	3	4
1997	International	VNV530R8DASE	8.7	*	*	*
1997	Iveco	VVE9.5R6DARA	9.5	*	*	*
1997	Liebherr Machines Bulle SA	VLH9.9R6DARA	10	6.6	*	*
1997	Liebherr Machines Bulle SA	VLH9.9R6DASA	10	6.6	*	*
1997	Volvo Construction Equipment	VVS6.7R6DARA	6.7	*	*	*
1997	Volvo Construction Equipment	VVS9.6R6DARA	9.6	*	*	*
1998	AB Volvo Penta	WVPXL06.7ABA	6.7	*	*	*
1998	AB Volvo Penta	WVPXL09.6ABA	9.6	*	*	*
1998	Case	WX9XL0359ABA	5.9	*	*	*
1998	Case	WX9XL0505ABC	8.3	*	*	*
1998	Caterpillar	WCPXL07.2HRK	7.2	*	*	*
1998	Caterpillar	WCPXL10.3ERK	10.3	*	*	*
1998	Caterpillar	WCPXL10.5MRG	10.5	*	*	*
1998	Cummins	WCEXL0359ABA	5.9	*	*	*
1998	Cummins	WCEXL0359ABB	5.9	*	*	*
1998	Cummins	WCEXL0505ABC	8.3	*	*	*
1998	Cummins	WCEXL0661AAA	10.8	*	*	*
1998	Daimler-Benz	WMBXL6.37DJA	6.4	*	*	*
1998	Deere	WJDXL10.5003	10.5	*	*	*
1998	Deere	WJDXL10.5004	10.5	*	*	*
1998	Detroit Diesel Corporation	WDDXL08.5TJD	8.5	*	*	*
1998	Deutz	WDZXL07.1004	7.1	4.8	*	*
1998	International	WNVXL0466BNA	7.8	*	*	*
1998	International	WNVXL0530ANA	8.7	*	*	*
1998	International	WNVXL0530ANB	8.7	*	*	*
1998	International	WNVXL0530BNB	8.7	7.6	*	*
1998	International	WNVXL0530BNC	8.7	*	*	*
1998	International	WNVXL0530BND	8.7	*	*	*
1998	International	WNVXL0530BNA	8.8	7.8	*	*
1998	Iveco	WVEXL09.5DAR	9.5	*	*	*
1998	Komatsu	WKLXL7.15CB1	7.2	*	*	*
1998	Komatsu Dresser	WKDXL0359ABA	5.9	*	*	*
1998	Liebherr Machines Bulle SA	WLHAL9.96ARA	6.6	10	*	*
1998	Liebherr Machines Bulle SA	WLHAL9.96ASA	6.6	10	*	*
1998	Liebherr Machines Bulle SA	WLHAL9.96ATA	10	*	*	*
1998	Mercedes-Benz	WMBXL12.9R6A	10	*	*	*
1998	Volvo Construction Equipment	WVSXL06.7CE1	6.7	*	*	*
1998	Volvo Construction Equipment	WVSXL09.6CE1	9.6	*	*	*
1999	AB Volvo Penta	XVPXL06.7ABA	6.7	*	*	*
1999	AB Volvo Penta	XVPXL07.3ABB	7.3	*	*	*
1999	AB Volvo Penta	XVPXL07.3ACB	7.3	*	*	*
1999	AB Volvo Penta	XVPXL09.6ABA	9.6	*	*	*
1999	Case	XX9XL0359ABA	5.9	*	*	*
1999	Case	XX9XL0505ABC	8.3	*	*	*
1999	Caterpillar	XCPXL07.2HRK	7.2	*	*	*
1999	Caterpillar	XCPXL10.3ERK	10.3	*	*	*
1999	Caterpillar	XCPXL10.5MRD	10.5	*	*	*
1999	Caterpillar	XCPXL10.5MRF	10.5	*	*	*
1999	Cummins	XCEXL0359ABA	5.9	*	*	*
1999	Cummins	XCEXL0359ABB	5.9	*	*	*

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			1	2	3	4
1999	Cummins	XCEXL0505ABC	8.3	*	*	*
1999	Cummins	XCEXL0661AAA	10.8	*	*	*
1999	Cummins	XCEXL0661AAB	10.8	*	*	*
1999	DaimlerChrysler	XMBXL6.37RJA	6.4	*	*	*
1999	DaimlerChrysler	XMBXL12.9R6A	10	*	*	*
1999	Deere	XJDXL10.5003	10.5	*	*	*
1999	Deere	XJDXL10.5004	10.5	*	*	*
1999	Deere	XJDXL10.5022	10.5	*	*	*
1999	Detroit Diesel Corporation	XDDXL08.5TJD	8.5	*	*	*
1999	Deutz	XDZXL07.1004	7.2	4.8	*	*
1999	Deutz	XDZXL07.1005	7.2	4.8	*	*
1999	International	XNVXL0466ANA	7.6	*	*	*
1999	International	XNVXL0466BNA	7.6	*	*	*
1999	International	XNVXL0530ANA	8.7	*	*	*
1999	International	XNVXL0530ANB	8.7	*	*	*
1999	International	XNVXL0530ANC	8.7	*	*	*
1999	International	XNVXL0530AND	8.7	*	*	*
1999	International	XNVXL0530BNA	8.7	7.6	*	*
1999	International	XNVXL0530BNB	8.7	7.6	*	*
1999	International	XNVXL0530BNC	8.7	*	*	*
1999	International	XNVXL0530BND	8.7	*	*	*
1999	Iveco	XEVXL09.5DAR	9.5	*	*	*
1999	Komatsu	XKLXL7.15CB1	7.2	*	*	*
1999	Komatsu	XKLXL11.0DC1	11	*	*	*
1999	Komatsu Dresser	XKDXL0359ABA	5.9	*	*	*
1999	Liebherr Machines Bulle SA	XLHAL9.96ARA	10	6.6	*	*
1999	Liebherr Machines Bulle SA	XLHAL9.96ASA	10	6.6	*	*
1999	Liebherr Machines Bulle SA	XLHAL9.96ATA	10	6.6	*	*
1999	Volvo Construction Equipment	XVFXL09.6CE1	9.6	*	*	*
2000	AB Volvo Penta	YVPXL06.7ABA	6.7	*	*	*
2000	AB Volvo Penta	YVPXL07.3ABB	7.3	*	*	*
2000	AB Volvo Penta	YVPXL07.3ACB	7.3	*	*	*
2000	AB Volvo Penta	YVPXL09.6ABA	9.6	*	*	*
2000	Case	YX9XL0359ABA	5.9	*	*	*
2000	Case	YX9XL0359ABB	5.9	*	*	*
2000	Case	YX9XL0505ABC	8.3	*	*	*
2000	Caterpillar	YCPXL07.2HRK	7.2	*	*	*
2000	Caterpillar	YCPXL10.3ERK	10.3	*	*	*
2000	Caterpillar	YCPXL10.5MRG	10.5	*	*	*
2000	Cummins	YCEXL0359ABA	5.9	*	*	*
2000	Cummins	YCEXL0359ABB	5.9	*	*	*
2000	Cummins	YCEXL0505ABC	8.3	*	*	*
2000	Cummins	YCEXL0661AAA	11	*	*	*
2000	Cummins	YCEXL0661AAB	11	*	*	*
2000	DaimlerChrysler	YMBXL6.37RJA	6.4	*	*	*
2000	DaimlerChrysler	YMBXL12.9R6A	10	*	*	*
2000	Deere	YJDXL08.1008	8.1	*	*	*
2000	Deere	YJDXL10.5004	10.5	*	*	*
2000	Deere	YJDXL10.5022	10.5	*	*	*
2000	Detroit Diesel Corporation	YDDXL08.5TJD	8.5	*	*	*

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Model Year	Manufacturer	Engine Family	Displacement (L)			
			1	2	3	4
2000	Deutz	YDZXL07.1005	7.2	4.8	*	*
2000	International	YNVXL0466ANA	7.6	*	*	*
2000	International	YNVXL0530ANA	8.7	*	*	*
2000	International	YNVXL0530ANB	8.7	*	*	*
2000	International	YNVXL0530ANC	8.7	*	*	*
2000	International	YNVXL0530AND	8.7	*	*	*
2000	Isuzu	YSZXL06.5EXA	6.5	*	*	*
2000	Isuzu	YSZXL07.8EXA	7.8	*	*	*
2000	Iveco	YVEXL09.5DAR	9.5	*	*	*
2000	Komatsu	YKLXL0359ABA	5.9	*	*	*
2000	Komatsu	YKLXL7.15CD1	7.15	*	*	*
2000	Komatsu	YKLXL7.15CB1	7.2	*	*	*
2000	Liebherr Machines Bulle SA	YLHAL9.96ARA	10	6.6	*	*
2000	Liebherr Machines Bulle SA	YLHAL9.96ASA	10	6.6	*	*
2000	Liebherr Machines Bulle SA	YLHAL9.96ATA	10	6.6	*	*
2000	Mitsubishi Motors	YMTXL07.5D6A	7.5	*	*	*
2000	Volvo Construction Equipment	YVSXL09.6CE1	9.6	*	*	*
2001	AB Volvo Penta	1VPXL06.7ABA	6.7	*	*	*
2001	AB Volvo Penta	1VPXL07.3ACB	7.3	*	*	*
2001	AB Volvo Penta	1VPXL09.6ABA	9.6	*	*	*
2001	Case	1X9XL0505ABC	8.3	*	*	*
2001	Case	1X9XL0505ACC	8.3	*	*	*
2001	Caterpillar	1CPXL07.2HRK	7.2	*	*	*
2001	Caterpillar	1CPXL07.2HSK	7.2	*	*	*
2001	Caterpillar	1CPXL08.8HSK	8.8	*	*	*
2001	Caterpillar	1CPXL10.3ESK	10.3	*	*	*
2001	Caterpillar	1CPXL10.5MRD	10.5	*	*	*
2001	Cummins	1CEXL0359ABB	5.9	*	*	*
2001	Cummins	1CEXL0359ABC	5.9	*	*	*
2001	Cummins	1CEXL0505ABC	8.3	*	*	*
2001	Cummins	1CEXL0505ACC	8.3	*	*	*
2001	Cummins	1CEXL0661AAA	10.8	*	*	*
2001	Cummins	1CEXL0661AAB	10.8	*	*	*
2001	Cummins	1CEXL0661AAD	10.9	*	*	*
2001	Cummins	1CEXL0661AAC	11	*	*	*
2001	DaimlerChrysler	1MBXL6.37RJA	6.4	*	*	*
2001	DaimlerChrysler	1MBXL6.37RJB	6.4	*	*	*
2001	DaimlerChrysler	1MBXL7.20RJA	7.2	*	*	*
2001	DaimlerChrysler	1MBXL12.9R6A	10	*	*	*
2001	Deere	1JDXL08.1036	8.1	*	*	*
2001	Deere	1JDXL08.1037	8.1	*	*	*
2001	Detroit Diesel Corporation	1DDXL08.5TJD	8.5	*	*	*
2001	Detroit Diesel Corporation	1DDXL08.5YJD	8.5	*	*	*
2001	Deutz	1DZXL07.1004	7.2	4.8	*	*
2001	Deutz	1DZXL07.1005	7.2	4.8	*	*
2001	International	1NVXL0466ANA	7.7	*	*	*
2001	International	1NVXL0530ANA	8.7	*	*	*
2001	International	1NVXL0530ANB	8.7	*	*	*
2001	International	1NVXL0530ANC	8.7	*	*	*
2001	International	1NVXL0530AND	8.7	*	*	*

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Model Year	Manufacturer	Engine Family	Displacement (L)			
			1	2	3	4
2001	International	1NVXL0530ANF	8.7	*	*	*
2001	Isuzu	1SZXL06.5EXA	6.5	*	*	*
2001	Isuzu	1SZXL07.8EXA	7.8	*	*	*
2001	Komatsu	1KLXL0359ABC	5.9	*	*	*
2001	Komatsu	1KLXL11.0DD3	11	*	*	*
2001	Komatsu	1KLXL11.0DD4	11	*	*	*
2001	Liebherr Machines Bulle SA	1LHAL9.96ARA	6.6	10	*	*
2001	Liebherr Machines Bulle SA	1LHAL9.96ASA	6.6	10	*	*
2001	Liebherr Machines Bulle SA	1LHAL9.96ATA	6.6	10	*	*
2001	Mitsubishi Motors	1MTXL07.5D6A	7.5	*	*	*
2001	Volvo Construction Equipment	1VSXL09.6CE1	9.6	*	*	*
2001	Volvo Construction Equipment	1VSXL09.6CE2	9.6	*	*	*
2002	AB Volvo Penta	2VPXL06.7ABA	6.7	*	*	*
2002	AB Volvo Penta	2VPXL07.3ACB	7.3	*	*	*
2002	AB Volvo Penta	2VPXL09.6ABA	9.6	*	*	*
2002	Case	2X9XL0359ABB	5.9	*	*	*
2002	Case	2X9XL0359ABE	5.9	*	*	*
2002	Case	2X9XL0505ABC	8.3	*	*	*
2002	Case	2X9XL0505ACC	8.3	*	*	*
2002	Case	2X9XL0540AAA	8.8	*	*	*
2002	Caterpillar	2CPXL07.2HRK	7.2	*	*	*
2002	Caterpillar	2CPXL08.8HSK	8.8	*	*	*
2002	Caterpillar	2CPXL08.8HSX	8.8	*	*	*
2002	Caterpillar	2CPXL10.3ESK	10.3	*	*	*
2002	Caterpillar	2CPXL10.3ESX	10.3	*	*	*
2002	Caterpillar	2CPXL10.5MRD	10.5	*	*	*
2002	Cummins	2CEXL0359ABB	5.9	*	*	*
2002	Cummins	2CEXL0359ABC	5.9	*	*	*
2002	Cummins	2CEXL0359ABE	5.9	*	*	*
2002	Cummins	2CEXL0505ABC	8.3	*	*	*
2002	Cummins	2CEXL0505ACB	8.3	*	*	*
2002	Cummins	2CEXL0505ACC	8.3	*	*	*
2002	Cummins	2CEXL0540AAA	8.8	*	*	*
2002	Cummins	2CEXL0661AAD	10.3	*	*	*
2002	Cummins	2CEXL0661AAA	10.8	*	*	*
2002	Cummins	2CEXL0661AAB	10.8	*	*	*
2002	Cummins	2CEXL0661AAC	10.8	*	*	*
2002	Deere	2JDXL06.8049	6.8	*	*	*
2002	Deere	2JDXL08.1036	8.1	*	*	*
2002	Deere	2JDXL08.1037	8.1	*	*	*
2002	Detroit Diesel Corporation	2DDXL08.5YJD	8.5	*	*	*
2002	Deutz	2DZXL06.1028	4	6.1	*	*
2002	Deutz	2DZXL07.1004	7.1	4.8	*	*
2002	Deutz	2DZXL07.1005	7.1	4.8	*	*
2002	Deutz	2DZXL07.1032	7.1	4.8	*	*
2002	International	2NVXL0444ANA	7.3	*	*	*
2002	International	2NVXL0466ANA	7.6	*	*	*
2002	International	2NVXL0530ANA	8.7	*	*	*
2002	International	2NVXL0530ANB	8.7	*	*	*
2002	International	2NVXL0530ANC	8.7	*	*	*

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Model Year	Manufacturer	Engine Family	Displacement (L)			
			1	2	3	4
2002	International	2NVXL0530AND	8.7	*	*	*
2002	International	2NVXL0530ANF	8.7	*	*	*
2002	Isuzu	2SZXL06.5EXA	6.5	*	*	*
2002	Isuzu	2SZXL07.8EXA	7.8	*	*	*
2002	Iveco	2VEXL05.9DCR	5.9	*	*	*
2002	Komatsu	2KLXL0359ABC	5.9	*	*	*
2002	Komatsu	2KLXL11.0DC3	11	*	*	*
2002	Komatsu	2KLXL11.0DD3	11	*	*	*
2002	Komatsu	2KLXL11.0DD4	11	*	*	*
2002	Komatsu	2KLXL11.0DD5	11	*	*	*
2002	Liebherr Machines Bulle SA	2LHAL9.96ARA	6.6	10	*	*
2002	Liebherr Machines Bulle SA	2LHAL9.96ASA	6.6	10	*	*
2002	Liebherr Machines Bulle SA	2LHAL9.96ATA	6.6	10	*	*
2002	Mitsubishi Motors	2MTXL07.5D6A	7.5	*	*	*
2002	Mitsubishi Motors	2MTXL07.5D6D	7.5	*	*	*
2002	Volvo Construction Equipment	2VSVL09.6CE2	9.6	*	*	*
2003	AB Volvo Penta	3VPXL07.3ACB	7.3	*	*	*
2003	Caterpillar	3CPXL08.8HSK	8.8	*	*	*
2003	Caterpillar	3CPXL10.3ESK	10.3	*	*	*
2003	CNH Engine Corporation	3X9XL0359AAC	5.9	*	*	*
2003	CNH Engine Corporation	3X9XL0505ABC	8.3	*	*	*
2003	CNH Engine Corporation	3X9XL0505ACC	8.3	*	*	*
2003	CNH Engine Corporation	3X9XL0540AAA	8.8	*	*	*
2003	CNH UK Limited	3NHXL06.7DCR	3.9	4.5	5.9	6.7
2003	Cummins	3CEXL0359AAB	5.9	*	*	*
2003	Cummins	3CEXL0359AAC	5.9	*	*	*
2003	Cummins	3CEXL0359ABE	5.9	*	*	*
2003	Cummins	3CEXL0505ABC	8.3	*	*	*
2003	Cummins	3CEXL0505ACB	8.3	*	*	*
2003	Cummins	3CEXL0505ACC	8.3	*	*	*
2003	Cummins	3CEXL0540AAA	8.8	*	*	*
2003	Cummins	3CEXL0661AAC	10.8	*	*	*
2003	Cummins	3CEXL0661AAD	10.8	*	*	*
2003	Cummins	3CEXL0661AAE	10.8	*	*	*
2003	DaimlerChrysler	3MBXL6.37RJB	6.4	*	*	*
2003	DaimlerChrysler	3MBXL7.20RJA	7.2	*	*	*
2003	Deere	3JDXL06.8048	6.8	*	*	*
2003	Deere	3JDXL06.8049	6.8	*	*	*
2003	Deere	3JDXL08.1037	8.1	*	*	*
2003	Detroit Diesel Corporation	3DDXL08.5YJD	8.5	*	*	*
2003	Deutz	3DZXL06.1028	4	6.1	*	*
2003	Deutz	3DZXL07.1032	7.2	4.8	*	*
2003	Deutz	3DZXL07.1034	7.2	*	*	*
2003	International	3NVXL0365AFA	6	*	*	*
2003	International	3NVXL0530ANF	8.7	*	*	*
2003	Isuzu	3SZXL07.8EXA	7.8	*	*	*
2003	Iveco	3VEXL06.7DCR	3.9	4.5	5.9	6.7
2003	Komatsu	3KLXL11.0DC3	11	*	*	*
2003	Komatsu	3KLXL11.0DD3	11	*	*	*
2003	Komatsu	3KLXL11.0DD5	11	*	*	*

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			1	2	3	4
2003	Liebherr Machines Bulle SA	3LHAL9.96ARA	6.6	10	*	*
2003	Liebherr Machines Bulle SA	3LHAL9.96ATA	6.6	10	*	*
2003	Mitsubishi Fuso	3MFTL07.5D6A	7.5	*	*	*
2003	Mitsubishi Fuso	3MFTL07.5D6D	7.5	*	*	*
2003	Volvo Construction Equipment	3VSXL09.6CE2	9.6	*	*	*
2004	AB Volvo Penta	4VPXL07.3ACB	7.3	*	*	*
2004	AB Volvo Penta	4VPXL09.4ACB	9.4	*	*	*
2004	AB Volvo Penta	4VPXL09.4ACC	9.4	*	*	*
2004	AB Volvo Penta	4VPXL09.6ACC	9.4	*	*	*
2004	AB Volvo Penta	4VPXL09.6ACB	9.6	*	*	*
2004	Caterpillar	4CPXL07.2HSL	7.2	*	*	*
2004	Caterpillar	4CPXL08.8ESK	8.8	*	*	*
2004	Caterpillar	4CPXL08.8HSK	8.8	*	*	*
2004	Caterpillar	4CPXL10.3ESK	10.3	*	*	*
2004	CNH Engine Corporation	4X9XL0359ABE	5.9	*	*	*
2004	CNH Engine Corporation	4X9XL0505ABC	8.3	*	*	*
2004	CNH Engine Corporation	4X9XL0505ACC	8.3	*	*	*
2004	CNH Engine Corporation	4X9XL0540AAA	8.8	*	*	*
2004	CNH UK Limited	4NHXL06.7DCR	6.7	5.9	4.5	3.9
2004	Cummins	4CEXL0359AAB	5.9	*	*	*
2004	Cummins	4CEXL0359AAC	5.9	*	*	*
2004	Cummins	4CEXL0359ABC	5.9	*	*	*
2004	Cummins	4CEXL0359ABE	5.9	*	*	*
2004	Cummins	4CEXL0505ABC	8.3	*	*	*
2004	Cummins	4CEXL0505ACB	8.3	*	*	*
2004	Cummins	4CEXL0505ACC	8.3	*	*	*
2004	Cummins	4CEXL0540AAA	8.8	*	*	*
2004	Cummins	4CEXL0661AAC	10.8	*	*	*
2004	Cummins	4CEXL0661AAD	10.8	*	*	*
2004	Cummins	4CEXL0661AAE	10.8	*	*	*
2004	Daewoo	4DWXL08.1CPA	8.1	*	*	*
2004	DaimlerChrysler	4MBXL6.37RJB	6.4	*	*	*
2004	DaimlerChrysler	4MBXL7.20RJA	7.2	*	*	*
2004	Deere	4JDXL06.8048	4.5	6.8	*	*
2004	Deere	4JDXL06.8049	4.5	6.8	*	*
2004	Deere	4JDXL06.8072	6.8	*	*	*
2004	Deere	4JDXL08.1037	8.1	*	*	*
2004	Detroit Diesel Corporation	4DDXL08.5YJD	8.5	*	*	*
2004	Deutz	4DZXL06.1028	4	6	*	*
2004	Deutz	4DZXL07.1032	7.2	4.8	*	*
2004	Deutz	4DZXL07.1034	7.2	*	*	*
2004	International	4NVXL0365AFA	6	*	*	*
2004	International	4NVXL0530ANF	8.7	*	*	*
2004	Isuzu	4SZXL07.8EXA	7.8	*	*	*
2004	Iveco	4VEXL05.9DGS	5.9	*	*	*
2004	Iveco	4VEXL06.7DCR	6.7	5.9	4.5	3.9
2004	Iveco	4VEXL07.8CRS	7.8	*	*	*
2004	Iveco	4VEXL10.3CRS	10.3	*	*	*
2004	Komatsu	4KLXL0359AAB	5.9	*	*	*
2004	Komatsu	4KLXL0359ABC	5.9	*	*	*

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Model Year	Manufacturer	Engine Family	Displacement (L)			
			1	2	3	4
2004	Komatsu	4KLXL0505ABC	8.3	*	*	*
2004	Komatsu	4KLXL11.0DC3	11	*	*	*
2004	Komatsu	4KLXL11.0DD3	11	*	*	*
2004	Komatsu	4KLXL11.0DD5	11	*	*	*
2004	Liebherr Machines Bulle SA	4LHAL9.96ARA	6.6	10	*	*
2004	Liebherr Machines Bulle SA	4LHAL9.96ATA	6.6	10	*	*
2004	Mitsubishi Fuso	4MFTL07.5D6A	7.5	*	*	*
2004	Mitsubishi Fuso	4MFTL07.5D6D	7.5	*	*	*
2004	Volvo Construction Equipment	4VSXL09.6CE2	9.6	*	*	*
2005	AB Volvo Penta	5VPXL07.3ACB	7.3	*	*	*
2005	AB Volvo Penta	5VPXL09.4ACB	9.4	*	*	*
2005	AB Volvo Penta	5VPXL09.4ACC	9.4	*	*	*
2005	AB Volvo Penta	5VPXL09.6ACB	9.6	*	*	*
2005	Caterpillar	5CPXL07.2HSL	7.2	*	*	*
2005	Caterpillar	5CPXL08.8ESK	8.8	*	*	*
2005	Caterpillar	5CPXL08.8ESL	8.8	*	*	*
2005	Caterpillar	5CPXL08.8HSL	8.8	*	*	*
2005	Caterpillar	5CPXL10.3ESK	10.3	*	*	*
2005	CNH Engine Corporation	5X9XL0359ABE	5.9	*	*	*
2005	CNH Engine Corporation	5X9XL0505ABC	8.3	*	*	*
2005	CNH Engine Corporation	5X9XL0505ACC	8.3	*	*	*
2005	CNH Engine Corporation	5X9XL0540AAA	8.8	*	*	*
2005	CNH Engine Corporation	5X9XL0540AAB	8.8	*	*	*
2005	CNH UK Limited	5NHXL06.7DCR	3.9	4.5	5.9	6.7
2005	Cummins	5CEXL0359AAB	5.9	*	*	*
2005	Cummins	5CEXL0359AAC	5.9	*	*	*
2005	Cummins	5CEXL0359AAG	5.9	*	*	*
2005	Cummins	5CEXL0359ABC	5.9	*	*	*
2005	Cummins	5CEXL0359ABE	5.9	*	*	*
2005	Cummins	5CEXL0409AAC	6.7	*	*	*
2005	Cummins	5CEXL0505ABC	8.3	*	*	*
2005	Cummins	5CEXL0505ACB	8.3	*	*	*
2005	Cummins	5CEXL0540AAA	8.8	*	*	*
2005	Cummins	5CEXL0540AAB	8.8	*	*	*
2005	Cummins	5CEXL0661AAE	10.8	*	*	*
2005	Cummins	5CEXL0661AAF	10.8	*	*	*
2005	DaimlerChrysler	5MBXL6.37RJB	6.4	*	*	*
2005	DaimlerChrysler	5MBXL7.20RJA	7.2	*	*	*
2005	Deere	5JDXL06.8049	4.5	6.8	*	*
2005	Deere	5JDXL06.8048	6.8	*	*	*
2005	Deere	5JDXL06.8072	6.8	*	*	*
2005	Deere	5JDXL06.8080	6.8	*	*	*
2005	Deere	5JDXL08.1037	8.1	*	*	*
2005	Detroit Diesel Corporation	5DDXL08.5YJD	8.5	*	*	*
2005	Deutz	5DZXL06.1028	4	6	*	*
2005	Deutz	5DZXL07.1032	7.2	4.8	*	*
2005	Deutz	5DZXL07.1034	7.2	*	*	*
2005	International	5NVXL0365AFA	6	*	*	*
2005	Isuzu	5SZXL07.8EXA	7.8	*	*	*
2005	Iveco	5VEXL06.7DCR	3.9	4.5	5.9	6.7



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			1	2	3	4
2005	Iveco	5VEXL05.9DGS	5.9	*	*	*
2005	Iveco	5VEXL06.7DGA	6.7	*	*	*
2005	Iveco	5VEXL07.8CRS	7.8	*	*	*
2005	Iveco	5VEXL10.3CRS	10.3	*	*	*
2005	Iveco	5VEXL10.3VGT	10.3	*	*	*
2005	Komatsu	5KLXL0359AAB	5.9	*	*	*
2005	Komatsu	5KLXL0359AAL	5.9	*	*	*
2005	Komatsu	5KLXL0359ABC	5.9	*	*	*
2005	Komatsu	5KLXL0409AAC	6.7	*	*	*
2005	Komatsu	5KLXL0505ABC	8.3	*	*	*
2005	Komatsu	5KLXL11.0DC3	11	*	*	*
2005	Komatsu	5KLXL11.0DD3	11	*	*	*
2005	Komatsu	5KLXL11.0DD5	11	*	*	*
2005	Liebherr Machines Bulle SA	5LHAL9.96ARA	6.6	10	*	*
2005	Liebherr Machines Bulle SA	5LHAL9.96ATA	6.6	10	*	*
2005	Liebherr Machines Bulle SA	5LHAL10.5LPA	10.5	*	*	*
2005	Mitsubishi Fuso	5MFTL07.5D6D	7.5	*	*	*
2005	Perkins	5PKXL06.6PJ1	6.6	*	*	*
2005	Sisu Diesel	5SIDL07.4G4A	7.4	*	*	*
2005	Sisu Diesel	5SIDL07.4G4B	7.4	*	*	*
2005	Sisu Diesel	5SIDL07.4G5A	7.4	*	*	*
2005	Sisu Diesel	5SIDL07.4G5B	7.4	*	*	*
2005	Sisu Diesel	5SIDL08.4H4A	8.4	*	*	*
2005	Sisu Diesel	5SIDL08.4H5A	8.4	*	*	*
2005	Volvo Construction Equipment	5VSXL09.4CE2	9.4	*	*	*
2006	AB Volvo Penta	6VPXL9.4BAA	9.4	*	*	*
2006	Caterpillar	6CPXL08.8ESK	8.8	*	*	*
2006	CNH Engine Corporation	6X9XL0359AAM	5.9	*	*	*
2006	CNH Engine Corporation	6X9XL0359ABE	5.9	*	*	*
2006	CNH Engine Corporation	6X9XL0540AAB	8.8	*	*	*
2006	CNH UK Limited	6NHXL06.7DCR	3.9	4.5	5.9	6.7
2006	CNH UK Limited	6NHXL06.7DCA	6.7	*	*	*
2006	Cummins	6CEXL0359AAB	5.9	*	*	*
2006	Cummins	6CEXL0359AAC	5.9	*	*	*
2006	Cummins	6CEXL0359ABC	5.9	*	*	*
2006	Cummins	6CEXL0359ABE	5.9	*	*	*
2006	Cummins	6CEXL0409AAC	6.7	*	*	*
2006	Cummins	6CEXL0540AAB	8.8	*	*	*
2006	Cummins	6CEXL0661AAF	10.8	*	*	*
2006	DaimlerChrysler	6MBXL7.20RJA	4.3	7.2	6.4	*
2006	Deere	6JDXL06.8049	4.5	6.8	*	*
2006	Deere	6JDXL06.8048	6.8	*	*	*
2006	Deere	6JDXL06.8080	6.8	*	*	*
2006	Deere	6JDXL08.1037	8.1	*	*	*
2006	Deutz	6DZXL06.1028	6.1	4	*	*
2006	Deutz	6DZXL06.1061	6.1	*	*	*
2006	Deutz	6DZXL07.1053	7.1	*	*	*
2006	Deutz	6DZXL07.1034	7.2	*	*	*
2006	Doosan Infracore	6DWXL07.6UPA	7.6	*	*	*
2006	Doosan Infracore	6DWXL11.0UJA	11	*	*	*

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Model Year	Manufacturer	Engine Family	Displacement (L)			
			1	2	3	4
2006	Iveco	6VEXL06.7DCR	3.9	4.5	5.9	6.7
2006	Iveco	6VEXL06.7DCA	6.7	*	*	*
2006	Iveco	6VEXL06.7DGB	6.7	*	*	*
2006	Iveco	6VEXL06.7DGS	6.7	*	*	*
2006	Iveco	6VEXL08.7TR3	8.7	*	*	*
2006	Iveco	6VEXL10.3MLR	10.3	*	*	*
2006	Komatsu	6KLXL0359AAB	5.9	*	*	*
2006	Komatsu	6KLXL0359AAL	5.9	*	*	*
2006	Komatsu	6KLXL0359ABC	5.9	*	*	*
2006	Komatsu	6KLXL0409AAC	6.7	*	*	*
2006	Liebherr Machines Bulle SA	6LHAL9.96ARA	6.6	10	*	*
2006	Liebherr Machines Bulle SA	6LHAL9.96ATA	6.6	10	*	*
2006	Liebherr Machines Bulle SA	6LHAL9.54SPA	9.5	*	*	*
2006	Liebherr Machines Bulle SA	6LHAL10.5LPA	10.5	*	*	*
2006	Perkins	6PKXL06.6PJ1	6.6	*	*	*
2006	Sisu Diesel	6SIDL07.4G4B	7.4	*	*	*
2006	Sisu Diesel	6SIDL07.4G5B	7.4	*	*	*
2007	AB Volvo Penta	7VPXL09.4BAA	9.4	*	*	*
2007	Caterpillar	7CPXL07.2ESL	7.2	*	*	*
2007	Caterpillar	7CPXL08.8ESK	8.8	*	*	*
2007	CNH Engine Corporation	7X9XL0505AAE	8.3	*	*	*
2007	CNH Engine Corporation	7X9XL0540AAB	8.8	*	*	*
2007	CNH UK Limited	7NHXL06.7DCA	6.7	*	*	*
2007	Cummins	7CEXL0409AAC	6.7	*	*	*
2007	Cummins	7CEXL0409AAD	6.7	*	*	*
2007	Cummins	7CEXL0505AAE	8.3	*	*	*
2007	Cummins	7CEXL0540AAB	8.8	*	*	*
2007	Cummins	7CEXL0661AAJ	10.8	*	*	*
2007	Cummins	7CEXL0661AAF	11	*	*	*
2007	Deere	7JDXL06.8048	6.8	*	*	*
2007	Deere	7JDXL06.8049	6.8	*	*	*
2007	Deere	7JDXL06.8080	6.8	*	*	*
2007	Deere	7JDXL08.1037	8.1	*	*	*
2007	Detroit Diesel Corporation	7DDXL7.20RJA	4.3	6.4	7.2	*
2007	Deutz	7DZXL07.1034	7.2	*	*	*
2007	Doosan Infracore	7DWXL05.8UTA	5.9	*	*	*
2007	Doosan Infracore	7DWXL07.6UPA	7.6	*	*	*
2007	Doosan Infracore	7DWXL11.0UJA	11	*	*	*
2007	Iveco	7VEXL06.7DGB	4.5	6.7	*	*
2007	Iveco	7VEXL06.7DCA	6.7	*	*	*
2007	Iveco	7VEXL06.7DGS	6.7	*	*	*
2007	Iveco	7VEXL08.7TR3	8.7	*	*	*
2007	Iveco	7VEXL10.3MLR	10.3	*	*	*
2007	Komatsu	7KLXL0409AAC	6.7	*	*	*
2007	Komatsu	7KLXL0505AAE	8.3	*	*	*
2007	Liebherr Machines Bulle SA	7LHAL9.54SPA	9.5	*	*	*
2007	Liebherr Machines Bulle SA	7LHAL10.5LPA	10.5	*	*	*
2007	Sisu Diesel	7SIDL07.4G5B	7.4	*	*	*
2008	Caterpillar	8CPXL07.2ESL	7.2	*	*	*
2008	CNH Engine Corporation	8X9XL0505AAE	8.3	*	*	*

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			1	2	3	4
2008	CNH Engine Corporation	8X9XL0540AAB	8.8	*	*	*
2008	Cummins	8CEXL0409AAC	6.7	*	*	*
2008	Cummins	8CEXL0409AAD	6.7	*	*	*
2008	Cummins	8CEXL0540AAB	8.8	*	*	*
2008	Cummins	8CEXL0661AAF	11	*	*	*
2008	Cummins	8CEXL0661AAJ	11	*	*	*
2008	Deere	8JDXL06.8049	6.8	*	*	*
2008	Deere	8JDXL06.8080	6.8	*	*	*
2008	Deere	8JDXL08.1037	8.1	*	*	*
2008	Deere	8JDXL09.0114	9	*	*	*
2008	Deutz	8DZXL06.1063	5.7	6.1	*	*
2008	Doosan Infracore	8DWXL05.8UTA	5.9	*	*	*
2008	Doosan Infracore	8DWXL07.6UPA	7.6	*	*	*
2008	Iveco	8VEXL06.7DGB	4.5	6.7	*	*
2008	Iveco	8VEXL06.7DGS	6.7	*	*	*
2008	Iveco	8VEXL08.7TR3	8.7	*	*	*
2008	Iveco	8VEXL10.3MLR	10.3	*	*	*
2008	Komatsu	8KLXL0409AAC	6.7	*	*	*
2008	Liebherr Machines Bulle SA	8LHAL10.5LPA	10.5	*	*	*
2009	Caterpillar	9CPXL07.2ESL	7.2	*	*	*
2009	Cummins	9CEXL0409AAC	6.7	*	*	*
2009	Cummins	9CEXL0409AAD	6.7	*	*	*
2009	Cummins	9CEXL0505AAE	8.3	*	*	*
2009	Cummins	9CEXL0661AAF	11	*	*	*
2009	Cummins	9CEXL0661AAJ	11	*	*	*
2009	Deere	9JDXL06.8049	6.8	*	*	*
2009	Deere	9JDXL06.8080	6.8	*	*	*
2009	Deere	9JDXL08.1037	8.1	*	*	*
2009	Deere	9JDXL09.0114	9	*	*	*
2009	Doosan Infracore	9DICL05.8UTA	5.9	*	*	*
2009	Doosan Infracore	9DICL07.6UPA	7.6	*	*	*
2009	Iveco	9VEXL06.7DGB	6.7	4.5	*	*
2009	Iveco	9VEXL06.7DGS	6.7	*	*	*
2009	Iveco	9VEXL08.7TR3	8.7	*	*	*
2009	Iveco	9VEXL10.3MLR	10.3	*	*	*
2009	Komatsu	9KLXL0409AAC	6.7	*	*	*
2009	Liebherr Machines Bulle SA	9LHAL10.5LPA	10.5	*	*	*
2009	Perkins	9PKXL06.6PJ2	6.6	*	*	*