

**ARB-Approved Engine Families for the Johnson Matthey, Incorporated,  
Advanced Catalyzed Continuously Regenerating Technology (A<sub>dv</sub>CCRT™) System  
Relating to Executive Order Series DE-09-004  
Effective Date: October 31, 2012**

(Note: Some engines within an approved engine family may not meet horsepower requirements. Check that each engine meets the terms and specifications of the Executive Order.)

Model Year	Manufacturer	Engine Family	Displacement (L)
2002	Caterpillar	2CPXH0729EBX	11.9
2002	Cummins	2CEXH0912XAG	14.9
2002	Mack	2MKXH11.9H64	11.9
2002	Mack	2MKXH11.9V65	11.9
2002	Mack	2MKXH11.9V66	11.9
2002	Mack	2MKXH11.9V67	11.9
2003	Cummins	3CEXH0359BAG	5.9
2003	Cummins	3CEXH0359BAH	5.9
2003	Cummins	3CEXH0661MAT	10.8
2003	Cummins	3CEXH0661MAU	10.8
2003	Cummins	3CEXH0912XAH	14.9
2003	Cummins	3CEXH0912XAJ	14.9
2003	Detroit Diesel Corporation	3DDXH12.7EGY	12.7
2003	Detroit Diesel Corporation	3DDXH14.0ELY	14.0
2003	International	3NVXH06.0AEA	6.0
2003	Isuzu	3SZXH06.63AK	6.6
2003	Mack	3MKXH11.9H64	11.9
2003	Mack	3MKXH11.9H70	11.9
2003	Mack	3MKXH11.9V65	11.9
2003	Mack	3MKXH11.9V67	11.9
2003	Mack	3MKXH11.9V68	11.9
2003	Volvo	3VTXH12.150S	12.1
2004	Caterpillar	4CPXH0442HBK	7.2
2004	Caterpillar	4CPXH0537HBK	8.8
2004	Caterpillar	4CPXH0680EBK	8.8
2004	Caterpillar	4CPXH0763EBK	12.5
2004	Cummins	4CEXH0359BAG	5.9
2004	Cummins	4CEXH0359BAH	5.9
2004	Cummins	4CEXH0661MAT	10.8
2004	Cummins	4CEXH0661MAU	10.8
2004	Cummins	4CEXH0912XAH	14.9
2004	Cummins	4CEXH0912XAJ	14.9
2004	DaimlerChrysler	4MBXH12.8DJA	12.8
2004	DaimlerChrysler	4MBXH6.37DJA	6.4
2004	Detroit Diesel Corporation	4DDXH12.7EGY	12.7
2004	Detroit Diesel Corporation	4DDXH14.0ELY	14.0
2004	Hino	4HMXH07.7JTA	7.7
2004	Hino	4HMXH07.7JTB	7.7
2004	International	4NVXH0365AEB	6.0
2004	International	4NVXH0466AEA	7.6
2004	International	4NVXH0570AEA	9.3
2004	Isuzu	4SZXH06.64AA	6.6
2004	Isuzu	4SZXH06.64AW	6.6

Model Year	Manufacturer	Engine Family	Displacement (L)
2004	Isuzu	4SZXH07.84RA	7.8
2004	Isuzu	4SZXH07.84RW	7.8
2004	Mack	4MKXH11.9H64	11.9
2004	Mack	4MKXH11.9H70	11.9
2004	Mack	4MKXH11.9H73	11.9
2004	Mack	4MKXH11.9V65	11.9
2004	Mack	4MKXH11.9V67	11.9
2004	Mack	4MKXH11.9V71	11.9
2004	Volvo	4VTXH12.150S	12.1
2005	Caterpillar	5CPXH0442HBK	7.2
2005	Caterpillar	5CPXH0537HBK	8.8
2005	Caterpillar	5CPXH0680EBK	11.1
2005	Caterpillar	5CPXH0763EBK	12.5
2005	Cummins	5CEXH0359BAB	5.9
2005	Cummins	5CEXH0359BAF	5.9
2005	Cummins	5CEXH0359BAG	5.9
2005	Cummins	5CEXH0359BAH	5.9
2005	Cummins	5CEXH0505CAX	8.3
2005	Cummins	5CEXH0505CAY	8.3
2005	Cummins	5CEXH0540LAH	8.9
2005	Cummins	5CEXH0661MAT	10.8
2005	Cummins	5CEXH0661MAU	10.8
2005	Cummins	5CEXH0661MAX	10.8
2005	Cummins	5CEXH0912XAH	14.9
2005	Cummins	5CEXH0912XAJ	14.9
2005	DaimlerChrysler	5MBXH12.8DJA	12.8
2005	DaimlerChrysler	5MBXH6.37DJA	6.4
2005	DaimlerChrysler	5MBXH7.20DJA	7.2
2005	Detroit Diesel Corporation	5DDXH12.7EGY	12.7
2005	Detroit Diesel Corporation	5DDXH14.0ELY	14.0
2005	General Motors	5GMXH06.6592	6.6
2005	General Motors	5GMXH06.6593	6.6
2005	Hino	5HMXH07.7JTA	7.7
2005	Hino	5HMXH07.7JTB	7.7
2005	International	5NVXH0365AEC	6.0
2005	International	5NVXH0466AEA	7.6
2005	International	5NVXH0570AEA	9.3
2005	International	5NVXH06.0AEC	6.0
2005	Isuzu	5SZXH07.84RA	7.8
2005	Isuzu	5SZXH07.84RB	7.8
2005	Isuzu	5SZXH07.84RW	7.8
2005	Mack	5MKXH11.9H70	11.9
2005	Mack	5MKXH11.9H73	11.9
2005	Mack	5MKXH11.9V65	11.9
2005	Mack	5MKXH11.9V67	11.9
2005	Mack	5MKXH11.9V71	11.9
2005	Mack	5MKXH11.9V74	11.9
2005	Mitsubishi	5MFTH07.5M6A	7.5
2005	Volvo	5VTXH12.150S	12.1
2006	Caterpillar	6CPXH0442HBK	7.2
2006	Caterpillar	6CPXH0537HBK	8.8

<b>Model Year</b>	<b>Manufacturer</b>	<b>Engine Family</b>	<b>Displacement (L)</b>
2006	Caterpillar	6CPXH0680EBK	11.1
2006	Caterpillar	6CPXH0763EBK	12.5
2006	Cummins	6CEXH0359BAB	5.9
2006	Cummins	6CEXH0359BAF	5.9
2006	Cummins	6CEXH0359BAG	5.9
2006	Cummins	6CEXH0359BAH	5.9
2006	Cummins	6CEXH0505CAX	8.3
2006	Cummins	6CEXH0505CAY	8.3
2006	Cummins	6CEXH0540LAJ	8.9
2006	Cummins	6CEXH0661MAT	10.8
2006	Cummins	6CEXH0661MAU	10.8
2006	Cummins	6CEXH0661MAX	10.8
2006	Cummins	6CEXH0912XAH	14.9
2006	Cummins	6CEXH0912XAJ	14.9
2006	DaimlerChrysler	6MBXH12.8DJA	12.8
2006	DaimlerChrysler	6MBXH6.37DJA	6.4
2006	DaimlerChrysler	6MBXH7.20DJA	7.2
2006	Detroit Diesel Corporation	6DDXH12.7EGY	12.7
2006	Detroit Diesel Corporation	6DDXH14.0ELY	14.0
2006	Hino	6HMXH07.7JTA	7.7
2006	Hino	6HMXH07.7JTB	7.7
2006	International	6NVXH0466AEA	7.6
2006	International	6NVXH06.0AEC	6.0
2006	Isuzu	6SZXH07.84RW	7.8
2006	Isuzu	6SZXH07.84RA	7.8
2006	Mack	6MKXH10.8C02	10.8
2006	Mack	6MKXH11.9H70	11.9
2006	Mack	6MKXH11.9H73	11.9
2006	Mack	6MKXH11.9V65	11.9
2006	Mack	6MKXH11.9V67	11.9
2006	Mack	6MKXH11.9V71	11.9
2006	Mack	6MKXH11.9V74	11.9
2006	Mitsubishi	6MFTH07.5M6A	7.5
2006	Volvo	6VTXH12.150S	12.1