

ATTACHMENT 1

Engine Families EXCLUDED from the Cleaire Horizon™ Electric Particulate Filter Verification

Table 1. Excluded Engine Families

Model Year	Engine Family	Engine Manufacturer
1988	JDD0426FWF7	Detroit Diesel Corporation
1988	JDD0552FZG8	Detroit Diesel Corporation
1988	JDD0736FZH5	Detroit Diesel Corporation
1988	JGM0552FZG2	General Motors
1988	JGM0426FWF1	General Motors
1988	JGM0736FZH9	General Motors
1989	KDD0426FWF6	Detroit Diesel Corporation
1989	KDD0552FZG7	Detroit Diesel Corporation
1989	KDD0736FZH4	Detroit Diesel Corporation
1989	KDD0736FWH9	Detroit Diesel Corporation
1990	LDD0426FAF6	Detroit Diesel Corporation
1990	LDD0426FZF0	Detroit Diesel Corporation
1990	LDD0552FZL2	Detroit Diesel Corporation
1990	LDD0552FAG1	Detroit Diesel Corporation
1990	LDD0552FZG6	Detroit Diesel Corporation
1990	LDD0736FAH9	Detroit Diesel Corporation
1990	LDD0736FZH3	Detroit Diesel Corporation
1991	MDD0426FZFX	Detroit Diesel Corporation
1991	MDD0552FZG5	Detroit Diesel Corporation
1991	MDD0736FZH2	Detroit Diesel Corporation
1992	NDD0426FZF9	Detroit Diesel Corporation
1992	NDD0552FZG4	Detroit Diesel Corporation
1992	NDD0736FZH1	Detroit Diesel Corporation
1993	PCE0611FZE3	Cummins
1993	PDD0426FZF7	Detroit Diesel Corporation
1993	PDD0552FZG2	Detroit Diesel Corporation
1993	PDD0552FZP2	Detroit Diesel Corporation
1993	PDD0736FZH9	Detroit Diesel Corporation
1997	VCP967E2DARK	Caterpillar
1998	WCPXH0967ERK	Caterpillar
1999	XCPXH0967ERK	Caterpillar
2000	YCPXH0967ERK	Caterpillar
2001	1CPXH0967ERK	Caterpillar
2001	1NVXH0530ATA	International (Navistar)
2002	2CPXH0442H3K	Caterpillar
2002	2CPXH0967ERK	Caterpillar
2002	2MBXH15.9DJB	Daimler Chrysler
2002	2NVXH0530ACT	International (Navistar)
2002	2NVXH0530ATA	International (Navistar)
2003	3CPXH0442H3K	Caterpillar
2003	3CPXH0537H3K	Caterpillar
2003	3DDXH08.5FJA	Detroit Diesel Corporation
2003	3NVXH0530ATA	International (Navistar)

**Engine Families EXCLUDED from the Cleaire Horizon™ Electric Particulate Filter Verification**

**Table 1. Excluded Engine Families (continued)**

<b>Model Year</b>	<b>Engine Family</b>	<b>Engine Manufacturer</b>
2004	4CPXH0442H3K	Caterpillar
2004	4CPXH0537H3K	Caterpillar
2004	4CPXH0928EBK	Caterpillar
2004	4NVXH0466AGA	International (Navistar)
2005	5CPXH0442H3K	Caterpillar
2005	5CPXH0537H3K	Caterpillar
2005	5CPXH0928EBK	Caterpillar
2005	5NVXH0466AGA	International (Navistar)
2006	6CPXH0442H3K	Caterpillar
2006	6CPXH0537H3K	Caterpillar
2006	6CPXH0928EBK	Caterpillar
2006	6CEXH0359BAC	Cummins
2006	6CEXH0661MAW	Cummins
2006	6NVXH0466AGA	International (Navistar)
2006	6VTXH16.1C01	Volvo

**Table 2. Provisionally Excluded Engine Families**

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<b>MY</b>	<b>Engine Family Name</b>	<b>Manufacturer</b>
1993	PCE0505FDA5	Cummins
1993	PCE0359FDA1	Cummins
1993	PCE0505FDD8	Cummins
1994	RCP403DZDAAA	Caterpillar
1994	RCP403DZDABA	Caterpillar
1994	RCE505D6DAAB	Cummins
1994	RCE359D6DAAB	Cummins
1994	RCE359D6DAAW	Cummins
1994	RCE505D6DAAC	Cummins
1994	RCE505F6DAAW	Cummins
1994	RCE505D6DAAA	Cummins
1994	RCE359D6DABW	Cummins
1994	RCE661FJDAAA	Cummins
1994	RDD8.5FJDABA	Detroit Diesel Corporation
1994	RGM6.5C6DAAA	General Motors
1994	RGM6.5C6DAAB	General Motors
1994	RGM6.5C6DAAC	General Motors
1994	RNV7.3C8DAAA	International
1994	RNV408D6DAAW	International
1994	RNV466D6DAAA	International
1994	RNV466D6DABA	International
1994	RNV530D6DAAA	International
1994	RNV444C8DABA	International
1994	RMB6.0D6DAAA	Mercedes-Benz
1994	RMT238B7DAAA	Mitsubishi
1994	RND423D6DAAA	Nissan
1994	RND254C6DAAA	Nissan
1994	RPK365D6DAAA	Perkins
1994	RPK243C6DAAA	Perkins
1995	SCP403DZDAAA	Caterpillar
1995	SCP403DZDABA	Caterpillar
1995	SCE505D6DABW	Cummins
1995	SCE505D6DAAW	Cummins
1995	SCE505D6DAAA	Cummins
1995	SCE505F6DAAW	Cummins
1995	SCE359D6DABW	Cummins
1995	SCE359D6DAAA	Cummins
1995	SCE359D6DAAW	Cummins
1995	SCE661FJDAAA	Cummins
1995	SCE239D6DAAA	Cummins
1995	SDD8.5FJDABA	Detroit Diesel Corporation
1995	SGM6.5C6DAAB	General Motors
1995	SGM6.5C6DAAW	General Motors
1995	SGM6.5C6DAAC	General Motors
1995	SNV7.3C8DAAA	International
1995	SNV444C8D0AA	International
1995	SNV530F6DATA	International
1995	SSZ7.1D6DAAA	Isuzu
1995	SMB6.0D6DAAA	Mercedes-Benz

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<b>MY</b>	<b>Engine Family Name</b>	<b>Manufacturer</b>
1995	SMT460D7DAAA	Mitsubishi
1995	SND423D6DAAA	Nissan
1995	SND254C6DAAA	Nissan
1995	SPK243C6DAAA	Perkins
1995	SPK365D6DAAA	Perkins
1995	SR3377D8DAAW	Renault
1995	SR3377D8DABW	Renault
1996	TCP403DZDAAA	Caterpillar
1996	TCP403DZDABA	Caterpillar
1996	TCP442DZDAAK	Caterpillar
1996	TCE359D6DABW	Cummins
1996	TCE239D6DAAA	Cummins
1996	TCE359D6DAAA	Cummins
1996	TCE505D6DAAA	Cummins
1996	TCE505D6DAAW	Cummins
1996	TCE505D6DABW	Cummins
1996	TCE661FJDABA	Cummins
1996	TDD8.5FJDABA	Detroit Diesel Corporation
1996	TGM6.5C6DABA	General Motors
1996	TGM6.5C6DAAA	General Motors
1996	TGM6.5C6DABW	General Motors
1996	TNV7.3C8DAAA	International
1996	TSZ7.1D6DAAA	Isuzu
1996	TMT238C7DBAA	Mitsubishi
1996	TMT358D7DBAA	Mitsubishi
1996	TMT460D7DBAA	Mitsubishi
1996	TND254C6DAAA	Nissan
1996	TND423D6DAAA	Nissan
1996	TPK243C6DAAA	Perkins
1996	TPK365D6DAAA	Perkins
1996	TR3377D8DABW	Renault
1996	TR3377D8DAAW	Renault
1997	VCP403DZDAAA	Caterpillar
1997	VCP403DZDABA	Caterpillar
1997	VCP442DZDAAK	Caterpillar
1997	VCE661FJDABA	Cummins
1997	VCE505D6DAAA	Cummins
1997	VCE505D6DABW	Cummins
1997	VCE239D6DAAA	Cummins
1997	VCE359D6DAAA	Cummins
1997	VCE359D6DABW	Cummins
1997	VCE505D6DAAW	Cummins
1997	VDD8.5FJDABA	Detroit Diesel Corporation
1997	VDD3.8C8DABA	Detroit Diesel Corporation
1997	VGM6.5C6DAAA	General Motors
1997	VGM6.5C6DABA	General Motors
1997	VGM6.5C6DABW	General Motors
1997	VNV7.3C8DAAW	International
1997	VNV7.3C8DAAA	International

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<b>MY</b>	<b>Engine Family Name</b>	<b>Manufacturer</b>
1997	VSZ7.1D6DAAA	Isuzu
1997	VSZ7.1D6DAAW	Isuzu
1997	VMT460D7DBAA	Mitsubishi
1997	VMT358D7DBAA	Mitsubishi
1997	VMT238C7DBAA	Mitsubishi
1997	VND254C6DAAA	Nissan
1997	VND423D6DAAA	Nissan
1997	VR3377D8DAAW	Renault
1997	VR3377D8DABW	Renault
1998	WCEXH0661MAC	Cummins
1998	WDDXH03.8C1C	Detroit Diesel Corporation
1998	WDDXH08.5FJC	Detroit Diesel Corporation
1998	WGMXH06.5526	General Motors
1998	WGMXH06.5521	General Motors
1998	WGMXH06.5522	General Motors
1998	WHMXH08.0JTR	Hino
1998	WNVXH0530CCB	International
1998	WNVXH0530CCD	International
1998	WNVXH0466CCB	International
1998	WNVXH0466CCD	International
1998	WNVXH0444CCB	International
1998	WNVXH0444CCD	International
1998	WNDXH04.2TAB	Nissan
1998	WNDXH06.9FAB	Nissan
1999	XCEXH0359BAI	Cummins
1999	XCEXH0505CAF	Cummins
1999	XCEXH0661MAG	Cummins
1999	XCEXH0661MAC	Cummins
1999	XDDXH08.5FJN	Detroit Diesel Corporation
1999	XDDXH03.8C1N	Detroit Diesel Corporation
1999	XGMXH06.5521	General Motors
1999	XGMXH06.5526	General Motors
1999	XHMXH08.0JTR	Hino
1999	XNVXH07.3ACA	International
1999	XNVXH0530ACT	International
1999	XSZXH04.83AA	Isuzu
1999	XMTXH03.9D4A	Mitsubishi
1999	XMTXH05.8D6A	Mitsubishi
1999	XMTXH07.5D6A	Mitsubishi
1999	XNDXH04.6FAB	Nissan
1999	XNDXH06.9FAB	Nissan
1999	XR3XH0377LWC	Renault
1999	XR3XH0377KWC	Renault
2000	YCEXH0661MAG	Cummins
2000	YCEXH0505CAF	Cummins
2000	YCEXH0359BAI	Cummins
2000	YDDXH03.8C1N	Detroit Diesel Corporation
2000	YDDXH08.5FJN	Detroit Diesel Corporation
2000	YGMXH06.5521	General Motors

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<b>MY</b>	<b>Engine Family Name</b>	<b>Manufacturer</b>
2000	YGMXH06.5526	General Motors
2000	YHMXH05.3JTD	Hino
2000	YHMXH08.0JTP	Hino
2000	YHMXH08.0JTR	Hino
2000	YNVXH0444ACT	International
2000	YNVXH0530ACT	International
2000	YSZXH04.83AA	Isuzu
2000	YMTXH03.9D4A	Mitsubishi
2000	YMTXH05.8D6A	Mitsubishi
2000	YMTXH07.5D6A	Mitsubishi
2000	YNDXH04.6FAB	Nissan
2000	YNDXH06.9FAB	Nissan
2000	YR3XH0377KWC	Renault
2001	1CPXH0442HAK	Caterpillar
2001	1CPXH0442HBK	Caterpillar
2001	1CEXH0505CAM	Cummins
2001	1CEXH0359BAO	Cummins
2001	1CEXH0661MAP	Cummins
2001	1CEXH0540LAB	Cummins
2001	1DDXH08.5FJY	Detroit Diesel Corporation
2001	1GEPH06.5CFF	General Engine Products
2001	1GMXH06.5521	General Motors
2001	1GMXH06.5526	General Motors
2001	1HMXH08.0JTR	Hino
2001	1HMXH05.3JTD	Hino
2001	1HMXH08.0JTP	Hino
2001	1NVXH07.3ACE	International
2001	1NVXH0530ACT	International
2001	1SZXH04.83AA	Isuzu
2001	1MTXH03.9D4A	Mitsubishi
2001	1MTXH05.8D6A	Mitsubishi
2001	1MTXH07.5D6A	Mitsubishi
2001	1MTXH04.8M5A	Mitsubishi
2001	1NDXH06.9FAB	Nissan
2001	1NDXH04.6FAB	Nissan
2002	2CPXH0442HAK	Caterpillar
2002	2CPXH0442HBX	Caterpillar
2002	2CPXH0442HBV	Caterpillar
2002	2CPXH0629EBX	Caterpillar
2002	2CPXH0729EBX	Caterpillar
2002	2CPXH0893EBX	Caterpillar
2002	2CEXH0359BAO	Cummins
2002	2CEXH0505CAM	Cummins
2002	2CEXH0540LAB	Cummins
2002	2CEXH0661MAP	Cummins
2002	2DDXH12.7FGN	Detroit Diesel Corporation
2002	2DDXH08.5FJY	Detroit Diesel Corporation
2002	2GEPH06.5CFF	General Engine Products
2002	2GEPH06.5521	General Engine Products

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<b>MY</b>	<b>Engine Family Name</b>	<b>Manufacturer</b>
2002	2GEPH06.5527	General Engine Products
2002	2GMXH06.5521	General Motors
2002	2HMXH05.3JTD	Hino
2002	2HMXH08.0JTP	Hino
2002	2HMXH08.0JTR	Hino
2002	2NVXH07.3ACE	International
2002	2NVXH0365AEA	International
2002	2SZXH04.83AA	Isuzu
2002	2MTXH07.5D6A	Mitsubishi
2002	2MTXH03.9D4A	Mitsubishi
2002	2MTXH04.8M5A	Mitsubishi
2002	2MTXH05.8D6A	Mitsubishi
2002	2NDXH04.6FAB	Nissan
2002	2NDXH06.9FAB	Nissan
2003	3CPXH0442HBV	Caterpillar
2003	3CPXH0629EBV	Caterpillar
2003	3CPXH0729EBV	Caterpillar
2003	3CPXH0893EBV	Caterpillar
2003	3CPXH0442HBX	Caterpillar
2003	3CPXH0629EBX	Caterpillar
2003	3CPXH0729EBX	Caterpillar
2003	3GEPH06.5CFF	General Engine Products
2003	3GEPH06.5527	General Engine Products
2003	3GEPH06.5521	General Engine Products
2003	3HMXH05.3JTD	Hino
2003	3HMXH08.0JTP	Hino
2003	3HMXH08.0JTR	Hino
2003	3NVXH06.0AEA	International
2003	3NVXH0365AEA	International
2003	3SZXH04.83AA	Isuzu
2003	3SZXH07.84AA	Isuzu
2003	3SZXH06.63AK	Isuzu
2003	3MTXH03.9D4A	Mitsubishi
2003	3MTXH05.8D6A	Mitsubishi
2003	3MTXH07.5D6A	Mitsubishi
2003	3MTXH04.8M5A	Mitsubishi
2003	3NDXH04.6FAB	Nissan
2003	3NDXH06.9FAB	Nissan
2004	4CPXH0442HBK	Caterpillar
2004	4CPXH0537HBX	Caterpillar
2004	4CPXH0928EBK	Caterpillar
2004	4CPXH0763EBK	Caterpillar
2004	4CPXH0680EBK	Caterpillar
2004	4CPXH0537HBK	Caterpillar
2004	4MBXH2.69DJB	DaimlerChrysler
2004	4GEPH06.5527	General Engine Products
2004	4HMXH04.7JTA	Hino
2004	4HMXH07.7JTA	Hino

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<b>MY</b>	<b>Engine Family Name</b>	<b>Manufacturer</b>
2004	4HMXH07.7JTB	Hino
2004	4NVXH06.0AEB	International
2004	4NVXH0365AEB	International
2004	4NVXH0466AEA	International
2004	4NVXH0570AEA	International
2004	4SZXH05.23AA	Isuzu
2004	4SZXH06.64AA	Isuzu
2004	4SZXH06.64AW	Isuzu
2005	5CPXH0928EBK	Caterpillar
2005	5CPXH0537HBK	Caterpillar
2005	5CPXH0442HBK	Caterpillar
2005	5CPXH0680EBK	Caterpillar
2005	5CPXH0763EBK	Caterpillar
2005	5CEXH0359BAB	Cummins
2005	5CEXH0505CAX	Cummins
2005	5CEXH0505CAY	Cummins
2005	5CEXH0540LAH	Cummins
2005	5CEXH0540LAI	Cummins
2005	5GMXH06.6592	General Motors
2005	5GMXH06.6593	General Motors
2005	5HMXH04.7JTA	Hino
2005	5HMXH07.7JTA	Hino
2005	5HMXH07.7JTB	Hino
2005	5NVXH06.0AEC	International
2005	5NVXH0275AEA	International
2005	5NVXH0365AEC	International
2005	5NVXH0466AEA	International
2005	5NVXH0570AEA	International
2005	5SZXH05.23AB	Isuzu
2005	5MFTH04.9M5A	Mitsubishi Fuso
2005	5MFTH07.5M6A	Mitsubishi Fuso
2006	6CPXH0442HBK	Caterpillar
2006	6CPXH0537HBK	Caterpillar
2006	6CPXH0680EBK	Caterpillar
2006	6CPXH0763EBK	Caterpillar
2006	6CPXH0928EBK	Caterpillar
2006	6CEXH0540LAJ	Cummins
2006	6CEXH0505CAX	Cummins
2006	6CEXH0505CAY	Cummins
2006	6CEXH0359BAB	Cummins
2006	6CEXH0540LAI	Cummins
2006	6GMXH06.6591	General Motors
2006	6GMXH06.6590	General Motors
2006	6HMXH04.7JTA	Hino
2006	6HMXH07.7JTA	Hino
2006	6HMXH07.7JTB	Hino
2006	6NVXH06.0AEC	International
2006	6NVXH0275AEA	International



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<b>2006</b>	6NVXH0365AEC	International
<b>2006</b>	6NVXH0466AEA	International
<b>2006</b>	6NVXH0570AEA	International
<b>2006</b>	6SZXH05.23AB	Isuzu
<b>2006</b>	6MFTH04.9M5A	Mitsubishi Fuso
<b>2006</b>	6MFTH07.5M6A	Mitsubishi Fuso