

ATTACHMENT 1

ARB-Approved Engine Families for the Johnson Matthey CRT particulate filter system

CATERPILLAR

Model Year	Engine Family	Series
1994	RCP403DZDAAA	--
	RCP403DZDABA	--
	RCP629EZDARA	--
	RCP638EZDARA	--
	RCP893EZDARA	--
1995	SCP403DZDAAA	--
	SCP403DZDABA	--
	SCP403DZDARK	--
	SCP442DZDARK	3126
	SCP629EZDARK	--
	SCP629EZDARM	C-10, 3176
	SCP638EZDARA	--
	SCP729EZDARL	C-12
SCP893EZDARK	--	
1996	TCP403DZDAAA	3116
	TCP403DZDABA	3116
	TCP403DZDARK	3116
	TCP442DZDAAK	3126
	TCP442DZDARK	3126
	TCP629EZDARK	3176
	TCP629EZDARM	C-10
	TCP638EZDARA	3306
	TCP729EZDARL	C-12
	TCP893EZDARK	3406
1997	VCP403DZDAAA	3116
	VCP403DZDABA	3116
	VCP403DZDARK	3116
	VCP442DZDAAK	3126
	VCP442DZDARK	3126
	VCP629EZDARK	3176
	VCP629EZDARX	C-10
	VCP638EZDARA	3306
	VCP729EZDARX	C-12
	VCP893EZDARA	3406
	VCP893EZDARX	3406
	VCP967EZDARK	3406

Model Year	Engine Family	Series
1998	WCPXH0442HRK	3126
	WCPXH0442HRK	3126
	WCPXH0442HSK	3126
	WCPXH0442HSK	3126
	WCPXH0629ERK	C-10
	WCPXH0629ERK	C-10
	WCPXH0729ERK	C-12
	WCPXH0729ERK	C-12
	WCPXH0893ERK	3406
	WCPXH0893ERK	3406
1999	WCPXH0967ERK	3406
	WCPXH0967ERK	3406
	XCPXH0442HRK	3126
	XCPXH0442HSK	3126
	XCPXH0629ERK	C10
2000	XCPXH0729ERK	C12
	XCPXH0893ERK	3406
	XCPXH0967ERK	3406
	YCPXH0442HRK	3126
	YCPXH0629ERK	C-10
2001	YCPXH0729ERK	C-12
	YCPXH0893ERK	C-15
	YCPXH0967ERK	C-16
	1CPXH0442HAK	3126
2001	1CPXH0442HBK	3126
	1CPXH0442HRK	3126
	1CPXH0629ERK	C-10
	1CPXH0729ERK	C-12
	1CPXH0893ERK	C-15
	1CPXH0967ERK	C-16

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CUMMINS

Model Year	Engine Family	Series
1994	RCE359D6DAAB	B5.9
	RCE359D6DAAW	B5.9
	RCE359D6DABW	B5.9
	RCE505D6DAAA	C8.3
	RCE505D6DAAB	C8.3
	RCE505D6DAAC	C8.3
	RCE505F6DAAW	C8.3
	RCE611EGDARW	L10
	RCE661EJDARA	M11
	RCE661EJDARC	M11
	RCE661EJDARW	M11
	RCE661FJDAAA	M11
	RCE855EJDARW	N14
	RCE855EJDASW	N14
1995	SCE239D6DAAA	B3.9
	SCE359D6DAAA	B5.9
	SCE359D6DAAW	B5.9
	SCE359D6DAAW	B5.9
	SCE359D6DABW	B5.9
	SCE359D6DABW	B5.9
	SCE505D6DAAA	C8.3
	SCE505D6DAAW	C8.3
	SCE505D6DABW	C8.3
	SCE505F6DAAW	C8.3
	SCE611EGDARW	L10
	SCE661EJDARA	M11
	SCE661EJDARC	M11
	SCE661EJDARW	M11
	SCE661EJDASW	M11
	SCE661EJDATW	M11
	SCE661FJDAAA	M11
	SCE855EJDARA	N14
	SCE855EJDARB	N14
	SCE855EJDARW	N14
	SCE855EJDASW	N14
	SCE855EJDATW	N14

Model Year	Engine Family	Series
1996	TCE239D6DAAA	B3.9
	TCE359D6DAAA	B5.9
	TCE359D6DABW	B5.9
	TCE505D6DAAA	C8.3
	TCE505D6DAAW	C8.3
	TCE505D6DABW	C8.3
	TCE661EJDARA	M11
	TCE661EJDARB	M11
	TCE661EJDARC	M11
	TCE661EJDARW	M11
	TCE661EJDASW	M11
	TCE661EJDATW	M11
	TCE661FJDABA	M11
	TCE855EJDARA	N14
TCE855EJDARB	N14	
TCE855EJDARW	N14	
TCE855EJDASW	N14	
TCE855EJDATW	N14	
1997	VCE239D6DAAA	B3.9
	VCE359D6DAAA	B5.9
	VCE359D6DABW	B5.9
	VCE359DJDARA	--
	VCE505D6DAAA	C8.3
	VCE505D6DAAW	C8.3
	VCE505D6DABW	C8.3
	VCE661EJDARB	M11
	VCE661EJDARC	M11
	VCE661EJDASA	M11
	VCE661EJDATW	M11
	VCE661FJDABA	M11
	VCE855EJDARA	N14
	VCE855EJDARB	N14
VCE855EJDARC	N14	
VCE855EJDATW	N14	

ARB-Approved Engine Families for the Johnson Matthey CRT particulate filter system

CUMMINS (continued)

Model Year	Engine Family	Series
1998	WCEXA0359BAH	ISB
	WCEXH0359BAD	ISB
	WCEXH0359BAE	ISB
	WCEXH0505CAC	ISC
	WCEXH0505CAD	ISC
	WCEXH0505CAE	ISC
	WCEXH0505CAF	ISC
	WCEXH0661MAA	M11
	WCEXH0661MAB	M11
	WCEXH0661MAC	M11
	WCEXH0661MAD	ISM
	WCEXH0661MAE	ISM
	WCEXH0855NAA	N14
	WCEXH0855NAB	N14
	WCEXH0855NAC	N14
	WCEXH0912XAA	Signature
1999	XCEXH0359BAI	ISB
	XCEXH0359BAJ	ISB
	XCEXH0359BAK	ISB
	XCEXA0359BAN	ISB
	XCEXA0359BAT	ISB
	XCEXH0505CAC	ISC
	XCEXH0505CAD	ISC
	XCEXH0505CAE	ISC
	XCEXH0505CAF	ISC
	XCEXH0661MAC	M11
	XCEXH0661MAG	ISM
	XCEXH0661MAH	ISM
	XCEXH0661MAI	ISM
	XCEXH0855NAD	N14
	XCEXH0855NAE	N14
	XCEXH0855NAF	N14
	XCEXH0912XAB	Signature
	XCEXH0912XAD	ISX

Model Year	Engine Family	Series
2000	YCEXH0359BAI	ISB
	YCEXH0359BAI	ISB
	YCEXH0359BAO	ISB
	YCEXH0359BAP	ISB
	YCEXA0359BAZ	ISB
	YCEXH0505CAF	ISC
	YCEXH0505CAG	ISC
	YCEXH0505CAH	ISC
	YCEXH0505CAI	ISC
	YCEXH0540LAA	ISL
	YCEXH0661MAG	ISM
	YCEXH0661MAH	ISM
	YCEXH0661MAI	ISM
	YCEXH0855NAD	N14
YCEXH0855NAE	N14	
YCEXH0855NAF	N14	
YCEXH0912XAC	ISX	
YCEXH0912XAD	ISX	
YCEXH0912XAE	Signature, ISX	
2001	1CEXA0359BAZ	ISB
	1CEXH0239BAD	ISB
	1CEXH0239BAE	ISB
	1CEXH0359BAO	ISB
	1CEXH0359BAU	ISB
	1CEXH0359BAV	ISB
	1CEXH0505CAM	ISC
	1CEXH0505CAN	ISC
	1CEXH0505CAO	ISC
	1CEXH0505CAP	ISC
	1CEXH0540LAA	ISL
	1CEXH0540LAB	ISL
	1CEXH0540LAC	ISL
	1CEXH0661MAP	ISM
	1CEXH0661MAQ	ISM
	1CEXH0661MAR	ISM
	1CEXH0855NAD	N14
	1CEXH0855NAE	N14
	1CEXH0855NAF	N14
	1CEXH0912XAC	ISX
1CEXH0912XAD	ISX	
1CEXH0912XAE	Signature, ISX	

ARB-Approved Engine Families for the Johnson Matthey CRT particulate filter system

DDC

Model Year	Engine Family	Series
1994	RDD11.EJDARA	Series 60
	RDD12.EJDARA	Series 60
	RDD8.5EJDARA	Series 50
	RDD8.5EJDARW	Series 50
	RDD8.5FJDABA	Series 50
1995	SDD11.EJDARA	Series 60
	SDD12.EJDARA	Series 60
	SDD8.5EJDABA	Series 50
	SDD8.5EJDARA	Series 50
	SDD8.5EJDARW	Series 50
1996	TDD11.EJDARA	Series 60
	TDD12.EJDARA	Series 60
	TDD12.EJDATW	Series 55
	TDD8.5EJDARA	Series 50
	TDD8.5EJDARW	Series 50
	TDD8.5FJDABA	Series 50
1997	VDD11.EJDARA	Series 60
	VDD12.EJDARA	Series 60
	VDD12.EJDATA	Series 55
	VDD3.8C8DABA	Series VM 638
	VDD8.5EJDARA	Series 50
	VDD8.5FJDABA	Series 50
1998	WDDXH11.1EHD	Series 60
	WDDXH12.7EGD	Series 60
	WDDXH08.5EJD	Series 50
	WDDXH08.5FJC	Series 50
1999	XDDXH11.1EHL	Series 60
	XDDXH12.7EGL	Series 60
	XDDXH14.0ELL	Series 60
	XDDXH08.5EJL	Series 50
	XDDXH08.5FJN	Series 50
2000	YDDXH12.7EGL	Series 60
	YDDXH14.0ELL	Series 60
	YDDXH08.5EJB	Series 50
	YDDXH08.5EJL	Series 50
	YDDXH08.5FJN	Series 50
	YDDXH03.8C1N	Turbotronic 638
2001	1DDXH12.7EGL	Series 60
	1DDXH14.0ELL	Series 60
	1DDXH08.5EJB	Series 50
	1DDXH08.5EJL	Series 50

MACK

Model Year	Engine Family	Series
1994	RMK728EGDARA	E7, EM7
	RMK728EJDARA	E7, EM7
1995	SMK728EGDARA	E7, EM7
	SMK728EJDARA	E7
1996	TMK728EGDARA	E7, EM7
	TMK728EJDARA	E7
1997	VMK728EGDARA	E7, EM7
	VMK728EJDARA	E7, EM7
	VMK728EJDAYW	E7, EM7
1998	WMKXH11.9E51	E7
	WMKXH11.9E52	E7
	WMKXH11.9E53	EM7
1999	XMKXH11.9E54	E7
2000	YMKXH11.9H56	E7, EM7
	YMKXH11.9V57	E7, EM7
2001	1MKXH11.9H56	E7, EM7
	1MKXH11.9H59	E7
	1MKXH11.9V57	E7, EM7
	1MKXH11.9V60	E7
	1MKXH11.9V61	EM7

VOLVO

Model Year	Engine Family	Series
1994	RVT12.EJDBRA	VE D12
	RVT6.7D6DBRA	VE D7A
1995	SVT12.EJDBRA	VE D12
	SVT6.7D6DBRA	VE D7A
1996	TVT12.EJDBRA	VE D12
	TVT6.7D6DBRA	VE D7A
1997	VVT12.EJDBRA	VE D12
	VVT6.7D6DBRA	VE D7A
1998	WVTXH12.150S	VE D12B
	WVTXH07.350S	VE D7C
1999	XVTXH12.150S	VE D12B
	XVTXH07.399B	VE D7C
	XVTXH07.350S	VE D7C
2000	YVTXH07.350S	VE D7C
	YVTXH12.150S	VE D12C
2001	1VTXH07.350S	VE D7C
	1VTXH12.150S	VE D12

ARB-Approved Engine Families for the Johnson Matthey CRT particulate filter system

NAVISTAR (INTERNATIONAL)

Model Year	Engine Family	Series
1994	RNV408D6DAAW	--
	RNV444C8DABA	--
	RNV466D6D0TW	--
	RNV466D6DAAA	--
	RNV466D6DABA	--
	RNV466D6DARW	DT 466HT, DT 466
	RNV466D6DASW	DT 466HT, DT 466
	RNV530D6DAAA	--
1995	SNV444C8DOAA	--
	SNV444C8DORA	--
	SNV444C8DOSA	--
	SNV466D6DARA	DT 466HT, DT 466
	SNV466D6DASA	DT 466
	SNV466D6DATA	--
	SNV466D8DARB	DT 466HT, DT 466
	SNV466D8DASB	DT 466
	SNV466D8DATB	--
	SNV530D6DARA	--
	SNV530E6DASA	--
	SNV530F6DATA	530 Bus
1996	TNV444C8DORA	--
	TNV444C8DOSA	--
	TNV466D6DARB	DT 466, DT 466HT
	TNV466D6DATB	--
	TNV466D8DARB	DT 466, DT 466HT
	TNV466D8DATB	--
	TNV530D6DARA	--
	TNV530D8DARA	--
	TNV530E6DASA	--
	TNV530E8DASA	--
	TNV7.3B8DOAA	--
1997	VNV444C8DARW	T444E
	VNV444C8DASW	T444E HT
	VNV466D6DARA	DT 466HT, DT 466
	VNV466D8DARW	DT 466E, DT 466 HT
	VNV466D8DASA	--
	VNV530D6DARA	530 MGD
	VNV530D8DARA	530E
	VNV530E6DASA	530 HVY
	VNV530E8DASA	530E
	VNV7.3C8DAAA	--
	VNV7.3C8DAAW	--
	VNV7.3W8DOAK	7.3 DIT

Model Year	Engine Family	Series
1998	WNVXH0444CCB	T 444E
	WNVXH0444CCD	T 444E
	WNVXH0466CCB	DT 466E
	WNVXH0466CCD	DT 466E
	WNVXH0530CCB	530E
	WNVXH0530CCD	530E
1999	XNVXH0444ANA	T 444E
	XNVXH0444ANB	T 444E
	XNVXH0466ANA	DT 466E
	XNVXH0466ANB	DT 466E
	XNVXH0530ACT	530E
	XNVXH0530ANA	530E
	XNVXH0530ANB	530E
	XNVXH07.3ACA	7.3 DIT
	XNVXH07.3ACB	7.3 DIT
	XNVXH07.3ANE	7.3 DIT
XNVXH07.3ANF	7.3 DIT	
XNVXA07.3CCD	7.3 DIT	
2000	YNVXH0444ACT	T 444E
	YNVXH0444ANA	444 P
	YNVXH0444ANB	T 444E
	YNVXH0444ANC	T 444E
	YNVXH0466ANA	DT 466E, DT 466E HT
	YNVXH0466ANB	DT 466E, DT 466E HT
	YNVXH0530ACT	530E
	YNVXH0530ANA	DT 530E
	YNVXH0530ANB	DT 530E, DT 530E HT
	YNVXH07.3ANA	7.3 DIT
2001	1NVXH0444ANA	444 P
	1NVXH0444ANB	T 444E
	1NVXH0444ANC	T 444E
	1NVXH0466ANA	DT 466, DT 466 HT
	1NVXH0466ANB	DT 466, DT 466 HT
	1NVXH0466ANB	DT 466, DT 466 HT
	1NVXH0530ACT	DT 530
	1NVXH0530ANA	DT 530
	1NVXH0530ANB	DT 530, DT 530 HT
	1NVXH07.3ACE	7.3 DIT
	1NVXH07.3ACF	7.3 DIT
	1NVXH07.3ANA	7.3 DIT
	1NVXH07.3ANC	7.3 DIT
1NVXA07.3CND	7.3 DIT	