

Attachment 1: Cummins Pacific eMissions DPF

Off-Road Certified Engine Family List (≤ 0.15 g/bhp-hr PM)

Model Year 2006 Engines

Manufacturer	Engine Families
Cummins	6CEXL030.ABA
Cummins	6CEXL030.AAD
Cummins	6CEXL045.AAA
Cummins	6CEXL050.AAD
Cummins	6CEXL060.AAD
Cummins	6CEXL078.AAB

Model Year 2007 Engines

Manufacturer	Engine Families
Cummins	7CEXL023.AAA
Cummins	7CEXL023.AAB
Cummins	7CEXL023.AAC
Cummins	7CEXL030.AAD
Cummins	7CEXL030.AAE
Cummins	7CEXL030.ABA
Cummins	7CEXL050.AAC
Cummins	7CEXL050.AAD
Cummins	7CEXL050.ABA
Cummins	7CEXL060.AAB
Cummins	7CEXL060.AAD
Cummins	7CEXL060.AAE
Cummins	7CEXL078.AAB
Cummins	7CEXL078.AAE
Komatsu Ltd.	7KLXL23.2FD5
Komatsu Ltd.	7KLXL045.AAA
Mitsubishi Heavy Industries, Ltd.	7MVXL24.5BBA
Mitsubishi Heavy Industries, Ltd.	7MVXL33.9BBA
Mitsubishi Heavy Industries, Ltd.	7MVXL37.1BBA
Mitsubishi Heavy Industries, Ltd.	7MVXL49.0BBA
Mitsubishi Heavy Industries, Ltd.	7MVXL65.4BBA
MTU Detroit Diesel	7MDDL31.8XRR

Model Year 2008 Engines

Manufacturer	Engine Families
Caterpillar	8CPXL27.0ESK
Caterpillar	8CPXL27.0ESW
Caterpillar	8CPXL27.0ESX
Caterpillar	8CPXL32.0ESW
Caterpillar	8CPXL32.0ESX
Caterpillar	8CPXL34.5E2W
Caterpillar	8CPXL51.8E2W
Caterpillar	8CPXL78.1E2W
Cummins	8CEXL023.AAA

Manufacturer	Engine Families
Cummins	8CEXL023.AAB
Cummins	8CEXL023.AAC
Cummins	8CEXL030.AAB
Cummins	8CEXL030.AAD
Cummins	8CEXL030.ABA
Cummins	8CEXL045.AAA
Cummins	8CEXL050.AAC
Cummins	8CEXL050.AAD
Cummins	8CEXL060.AAB
Cummins	8CEXL060.AAD
Cummins	8CEXL060.AAE
Cummins	8CEXL078.AAA
Cummins	8CEXL078.AAB
Cummins	8CEXL078.AAE
Komatsu Ltd.	8KLXL23.2FD5
Komatsu Ltd.	8KLXL23.2FD6
Komatsu Ltd.	8KLXL23.2FD7
Komatsu Ltd.	8KLXL30.5GD3
Komatsu Ltd.	8KLXL050.AAC
Komatsu Ltd.	8KLXL060.AAA
Komatsu Ltd.	8KLXL060.AAB
Komatsu Ltd.	8KLXL078.AAA
Mitsubishi Heavy Industries, Ltd.	8MVXL24.5BBA
Mitsubishi Heavy Industries, Ltd.	8MVXL33.9BBA
Mitsubishi Heavy Industries, Ltd.	8MVXL37.1BBA
Mitsubishi Heavy Industries, Ltd.	8MVXL49.0BBA
Mitsubishi Heavy Industries, Ltd.	8MVXL65.4BBA
MTU Detroit Diesel, Inc.	8MDDL31.8XRR
MTU Detroit Diesel, Inc.	8MDDL35.8GRR

Model Year 2009 Engines

Manufacturer	Engine Families
Caterpillar	9CPXL27.0ESW
Caterpillar	9CPXL27.0ESX
Caterpillar	9CPXL32.0ESW
Cummins	9CEXL023.AAA
Cummins	9CEXL023.AAB
Cummins	9CEXL023.AAC
Cummins	9CEXL030.AAD
Cummins	9CEXL050.AAD
Cummins	9CEXL060.AAD
Cummins	9CEXL060.AAE
Cummins	9CEXL078.AAB
Komatsu Ltd.	9KLXL23.2FD5
Komatsu Ltd.	9KLXL23.2FD7
Mitsubishi Heavy Industries, Ltd.	9MVXL24.5BBA
Mitsubishi Heavy Industries, Ltd.	9MVXL33.9BBA
Mitsubishi Heavy Industries, Ltd.	9MVXL37.1BBA
Mitsubishi Heavy Industries, Ltd.	9MVXL49.0BBA
Mitsubishi Heavy Industries, Ltd.	9MVXL65.4BBA

Manufacturer	Engine Families
Mitsubishi Heavy Industries, Ltd.	9MVXL65.4BBB
MTU Detroit Diesel	9MDDL31.8XRR
MTU Detroit Diesel	9MDDL35.8GRR

Model Year 2010 Engines

Manufacturer	Engine Families
Caterpillar	ACPXL27.0ESW
Caterpillar	ACPXL27.0ESX
Caterpillar	ACPXL32.0ESP
Caterpillar	ACPXL32.0ESW
Cummins	ACEXL023.AAA
Cummins	ACEXL023.AAB
Cummins	ACEXL023.AAC
Cummins	ACEXL030.AAD
Cummins	ACEXL050.AAD
Cummins	ACEXL060.AAD
Cummins	ACEXL060.AAE
Cummins	ACEXL078.AAE
Komatsu Ltd.	AKLXL23.2FD5
Komatsu Ltd.	AKLXL23.2FD7
Komatsu Ltd.	AKLXL078.AAF
Mitsubishi Heavy Industries, Ltd.	AMVXL24.5BBA
Mitsubishi Heavy Industries, Ltd.	AMVXL33.9BBA
Mitsubishi Heavy Industries, Ltd.	AMVXL37.1BBA
Mitsubishi Heavy Industries, Ltd.	AMVXL49.0BBA
Mitsubishi Heavy Industries, Ltd.	AMVXL65.4BBA
Mitsubishi Heavy Industries, Ltd.	AMVXL65.4BBB
MTU Detroit Diesel	AMDDL31.8XRR
MTU Detroit Diesel	AMDDL35.8GRR

Model Year 2011 Engines

Manufacturer	Engine Families
Caterpillar	BCPXL27.0NZS
Caterpillar	BCPXL32.0NZS
Caterpillar	BCPXL78.1NZS
Cummins	BCEXL023.AAB
Cummins	BCEXL030.AAD
Cummins	BCEXL050.AAD
Cummins	BCEXL060.AAD
Komatsu Ltd.	BKLXL23.2FD5
Mitsubishi Heavy Industries, Ltd.	BMVXL24.5BBA
Mitsubishi Heavy Industries, Ltd.	BMVXL33.9BBA
Mitsubishi Heavy Industries, Ltd.	BMVXL37.1BBA
Mitsubishi Heavy Industries, Ltd.	BMVXL49.0BBA
Mitsubishi Heavy Industries, Ltd.	BMVXL65.4BBA
Mitsubishi Heavy Industries, Ltd.	BMVXL65.4BBB
MTU Detroit Diesel	BMDDL31.8XRR
MTU Detroit Diesel	BMDDL35.8GRR

Model Year 2012 Engines

Manufacturer	Engine Families
Caterpillar	CCPXL27.0NZS
Caterpillar	CCPXL32.0NZS
Caterpillar	CCPXL78.1NZS
Cummins	CCEXL023.AAB
Cummins	CCEXL030.AAD
Cummins	CCEXL050.AAD
Cummins	CCEXL060.AAD
Komatsu Ltd.	CKLXL23.2FD5
Mitsubishi Heavy Industries, Ltd.	CMVXL24.5BBA
Mitsubishi Heavy Industries, Ltd.	CMVXL33.9BBA
Mitsubishi Heavy Industries, Ltd.	CMVXL37.1BBA
Mitsubishi Heavy Industries, Ltd.	CMVXL49.0BBA
Mitsubishi Heavy Industries, Ltd.	CMVXL65.4BBA
Mitsubishi Heavy Industries, Ltd.	CMVXL65.4BBB
MTU Detroit Diesel	CMDDL31.8XRR
MTU Detroit Diesel	CMDDL35.8GRR

Model Year 2013 Engines

Manufacturer	Engine Families
Caterpillar	DCPXL27.0NZS
Caterpillar	DCPXL32.0NZS
Caterpillar	DCPXL78.1NZS
Cummins	DCEXL023.AAB
Cummins	DCEXL030.AAD
Cummins	DCEXL050.AAD
Cummins	DCEXL060.AAD
Komatsu Ltd.	DKLXL23.2FD5
Mitsubishi Heavy Industries, Ltd.	DMVXL24.5BBA
Mitsubishi Heavy Industries, Ltd.	DMVXL33.9BBA
Mitsubishi Heavy Industries, Ltd.	DMVXL37.1BBA
Mitsubishi Heavy Industries, Ltd.	DMVXL49.0BBA
Mitsubishi Heavy Industries, Ltd.	DMVXL65.4BBA
Mitsubishi Heavy Industries, Ltd.	DMVXL65.4BBB
MTU Detroit Diesel	DMDDL31.8XRR
MTU Detroit Diesel	DMDDL35.8GRR

Model Year 2014 Engines

Manufacturer	Engine Families
Caterpillar	ECPXL27.0NZS
Caterpillar	ECPXL32.0NZS
Caterpillar	ECPXL78.1NZS
Cummins	ECEXL023.AAB
Cummins	ECEXL030.AAD
Cummins	ECEXL050.AAD
Cummins	ECEXL060.AAD
Komatsu Ltd.	EKLXL23.2FD5
Mitsubishi Heavy Industries, Ltd.	EMVXL24.5BBA
Mitsubishi Heavy Industries, Ltd.	EMVXL33.9BBA

Manufacturer	Engine Families
Mitsubishi Heavy Industries, Ltd.	EMVXL37.1BBA
Mitsubishi Heavy Industries, Ltd.	EMVXL49.0BBA
Mitsubishi Heavy Industries, Ltd.	EMVXL65.4BBA
Mitsubishi Heavy Industries, Ltd.	EMVXL65.4BBB
MTU Detroit Diesel	EMDDL31.8XRR
MTU Detroit Diesel	EMDDL35.8GRR

Model Year 2015 Engines

Manufacturer	Engine Families
Caterpillar	FCPXL27.0NZS
Caterpillar	FCPXL32.0NZS
Caterpillar	FCPXL78.1NZS
Cummins	FCEXL023.AAB
Cummins	FCEXL030.AAD
Cummins	FCEXL050.AAD
Cummins	FCEXL060.AAD
Komatsu Ltd.	FKLXL23.2FD5
Mitsubishi Heavy Industries, Ltd.	FMVXL24.5BBA
Mitsubishi Heavy Industries, Ltd.	FMVXL33.9BBA
Mitsubishi Heavy Industries, Ltd.	FMVXL37.1BBA
Mitsubishi Heavy Industries, Ltd.	FMVXL49.0BBA
Mitsubishi Heavy Industries, Ltd.	FMVXL65.4BBA
MTU Detroit Diesel	FMDDL31.8XRR
MTU Detroit Diesel	FMDDL35.8GRR
MTU Detroit Diesel	FMDDL40.1GNR

Model Year 2016 Engines

Manufacturer	Engine Families
Caterpillar	GCPXL27.0NZS
Caterpillar	GCPXL32.0NZS
Caterpillar	GCPXL78.1NZS
Cummins	GCEXL023.AAB
Cummins	GCEXL030.AAD
Cummins	GCEXL050.AAD
Cummins	GCEXL060.AAD

Model Year 2017 Engines

Manufacturer	Engine Families
Caterpillar	HCPXL27.0NZS
Caterpillar	HCPXL32.0NZS
Caterpillar	HCPXL78.1NZS
Cummins	HCEXL023.AAB
Cummins	HCEXL030.AAD
Cummins	HCEXL050.AAD
Cummins	HCEXL060.AAD

Model Year 2018 Engines

Manufacturer	Engine Families
Caterpillar	JCPXL27.0NZS
Caterpillar	JCPXL32.0NZS
Caterpillar	JCPXL78.1NZS
Cummins	JCEXL023.AAB
Cummins	JCEXL030.AAD
Cummins	JCEXL050.AAD
Cummins	JCEXL060.AAD

Model Year 2019 Engines

Manufacturer	Engine Families
Caterpillar	KCPXL27.0NZS
Caterpillar	KCPXL32.0NZS
Caterpillar	KCPXL78.1NZS
Cummins	KCEXL023.AAB
Cummins	KCEXL030.AAD
Cummins	KCEXL050.AAD
Cummins	KCEXL060.AAD

Model Year 2020 Engines

Manufacturer	Engine Families
Caterpillar	LCPXL27.0NZS
Caterpillar	LCPXL32.0NZS
Caterpillar	LCPXL78.1NZS
Cummins	LCEXL023.AAB
Cummins	LCEXL030.AAD
Cummins	LCEXL050.AAD
Cummins	LCEXL060.AAD

Model Year 2021 Engines

Manufacturer	Engine Families
Caterpillar	MCPXL27.0NZS
Caterpillar	MCPXL32.0NZS
Caterpillar	MCPXL78.1NZS
Cummins	MCEXL023.AAB
Cummins	MCEXL030.AAD
Cummins	MCEXL050.AAD
Cummins	MCEXL060.AAD

Model Year 2022 Engines

Manufacturer	Engine Families
Caterpillar	NCPXL27.0NZS
Caterpillar	NCPXL32.0NZS
Caterpillar	NCPXL78.1NZS
Cummins	NCEXL023.AAB
Cummins	NCEXL030.AAD
Cummins	NCEXL050.AAD
Cummins	NCEXL060.AAD

