



# Series 460 / 500 / 900 Off-Road Engines

Emission Warranty



Mercedes-Benz



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### Emission Warranty

Your engine is covered by the normal product warranty. In addition, your engine is covered by an emissions warranty specified by the U.S. Environmental Protection Agency and the California Air Resources Board for engines certified to the off-road emission standards

Warranty claims for Daimler off-road engines sold in the U.S.A. are being handled by MTU.

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## Federal Emission Warranty

In accordance with the requirements of the Federal Clean Air Act as amended, Daimler AG warrants to the original and each subsequent owner of a Daimler off-road diesel engine that:

- 1 the engine was designed, built, and equipped so as to conform at the time of sale to the original owner with the then applicable regulations issued by the Federal Environmental Protection Agency under authority of the Federal Clean Air Act as amended and
- 2 the emission-related components of such engine are free from defects in material and workmanship at the time of sale. The emission control system warranty covers these emission-related components over a period of five years or 3000 hours of engine operation from the date of initial operation of the engine, whichever occurs first. Failures, which arise solely as a result of owner abuse and/or lack of proper maintenance are not covered by the warranty.

For further information concerning the emission control system maintenance reference is made in the Operator's Manual and the Maintenance Booklet.

The warranty period shall begin on the date the engine is delivered to the first retail purchaser or, if the engine is first placed in service as a dealer demonstrator prior to sale at retail, on the date the engine is first placed in such service. Emission related defects in the genuine Daimler components listed below, including reasonable related diagnostic costs, are covered by this warranty.

### What is covered?

These components are covered by the above warranty. Some scheduled maintenance is required (refer to the Maintenance Booklet)

- Injection Pump
- Fuel Injector
- Turbocharger
- Electronic Control Module (ECM)
- Intake Manifold Pressure Sensor
- Intake Manifold Temperature Sensor
- Fuel Temperature Sensor
- Timing Synchronization Sensor
- Timing Reference Sensor
- Coolant Temperature Sensor
- Oil Pressure Sensor
- Oil Temperature Sensor
- DEF Compressed Air Pressure Sensor
- DEF Tank Level Sensor<sup>1</sup>
- DEF Tank Temperature Sensor<sup>1</sup>
- DEF Temperature Sensor
- NOx Sensor
- Temperature Sensor before SCR
- Temperature Sensor after SCR
- Manifold Air Humidity Sensor
- DEF Pressure Sensor
- DEF Doser
- DEF Dosing Unit
- DEF Pump Module
- SCR-Framemodule
- DEF Tank<sup>1</sup>
- SCR-Catalyst

### What is not covered?

- Conditions resulting from tampering, misuse, improper adjustment, alteration, accident, failure to use specified fuel or non-performance of maintenance services
- The replacement of non-warranted maintenance parts

<sup>1</sup> if delivered by Daimler AG

- Consequential damages such as loss of time, inconvenience, economic loss, loss of use the engine or equipment
- Any engine in equipment on which the hour meter reading has been changed so that the mileage cannot be readily determined

DAIMLER DOES NOT AUTHORIZE ANY PERSON TO CREATE FOR IT ANY OTHER OBLIGATION OR LIABILITY IN CONNECTION WITH THESE SYSTEMS. THIS WARRANTY IS IN ADDITION TO THE NEW DAIMLER ENGINE WARRANTY FOR OFF-ROAD APPLICATIONS.





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## California Emission Warranty

### Your Warranty Rights And Obligations

The California Air Resources Board and Daimler AG are pleased to explain the emission control system warranty on your 2012 model year heavy-duty offroad diesel engine. In California, new heavy-duty offroad diesel engines must be designed, built and equipped to meet the State's stringent anti-smog standards. Daimler AG must warrant the emission control system on your heavy-duty offroad diesel engine for the periods of time listed below, provided there has been no abuse, neglect or improper maintenance of your engine. Your emission control system may include parts such as fuel-injection, catalytic converter and engine computer. Also included may be hoses, belts, connectors and other emission-related assemblies. Where a warrantable condition exists, MTU will repair your engine at no cost to you including diagnosis, parts and labor.

#### Manufacturer's Warranty Coverage:

The 2012 heavy-duty off-road engines are warranted for 5 years or 3000 hours of engine operation (whichever occurs first): If an emission-related part of your engine is defective, the part will be repaired or replaced by MTU.

#### Owner's Warranty Responsibilities:

- Your engine is designed to be operated on diesel fuel only. Use of any other fuel may result in your engine no longer operating in compliance with California's emissions requirements.
- As the engine owner, you are responsible for the performance of the required maintenance listed in your owner's manual. Daimler AG recommends that you retain all receipts covering maintenance on your engine. Daimler AG cannot deny warranty solely for the lack of receipts or for the failure to ensure the performance of all required maintenance.

- You are responsible for presenting your engine to a MTU service dealer as soon as a problem exists. The warranty repair should be completed in a reasonable amount of time as expeditiously as possible.

- - As the engine owner you should also be aware that Daimler AG may deny you warranty coverage if your engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

If you have any questions regarding the engine owner's warranty rights and responsibilities, you should contact the:

MTU Warranty

Telephone: 313-592-7000

Email: [mtuddwarranty@mtu-online.com](mailto:mtuddwarranty@mtu-online.com)

#### Owner's Warranty Rights:

Daimler AG warrants to the original and each subsequent owner of a Daimler heavy-duty offroad diesel engine that:

- 1 The engine was designed, built and equipped so as to conform at the time of sale with the applicable regulations adopted by the Federal Environmental Protection Agency and the California Air Resources Board.
- 2 The emission control system of such engine is free from defects in materials and workmanship which would cause it not to conform with those regulations for a period of use of five years or 3000 hours of engine operation, whichever occurs first.

The 5-years /3000-hours warranty period shall begin on the date the engine is delivered to the first retail purchaser or, if the engine is first placed in service as a dealer demonstrator prior to sale at retail, on the date the engine is first placed in such service.

The emission control system of your new Daimler AG heavy-duty offroad diesel engine was designed built and tested using Daimler AG approved parts and the engine is certified

as being in conformity with Federal and California Air Resources Board emission control regulations.

Additional warranty coverage under Federal regulations, differing from California regulations, may be applicable.

Accordingly, it is recommended that any replacement parts used for maintenance, repair or replacement of emission-related components be Daimler Service Parts or Authorized Remanufactured Parts.

The owner may elect to have maintenance, repair or replacement of the emission control devices and systems performed by any automotive repair establishment or individual, and may elect to use parts other than genuine Daimler Service Parts or Authorized Remanufactured Parts for such maintenance, repair or replacement without invalidating this warranty; the cost of such service or parts, however, will not be covered under the warranty, except in an emergency situation.

Use of replacement parts which are not of equivalent quality may impair the effectiveness of emission control systems. If other than Daimler Service Parts or Authorized Remanufactured Parts are used for maintenance, repair or replacement of components affecting emission control, the owner should obtain assurances that such parts are warranted by their manufacturer to be equivalent to genuine Daimler parts in performance and durability. Daimler AG, however, assumes no liability under this warranty with respect to parts other than Daimler Service Parts or Authorized Remanufactured Parts except for consequential damage to a non- Daimler AG warranted part caused by failure of Daimler part. However, the use of non- Daimler replacement parts does not invalidate the warranty on other components unless non-Daimler parts cause damage to warranted parts.

The attached list sets forth the emission-related components covered by this emission control system warranty. You are advised to perform all recommended maintenance or

repairs on your new Daimler engine. You are responsible for the required maintenance. Daimler AG will not deny a warranty claim solely because you have no record of maintenance; however, Daimler AG may deny a warranty claim if your failure to perform required maintenance resulted in the failure of a warranted part.

Receipts covering the performance of regular maintenance should be retained in the event questions arise concerning maintenance. The receipts should be transferred to each subsequent owner of the engine.

### **Exclusions:**

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This warranty does not cover:

- 1 Malfunctions in any part caused by any of the following: misuse, improper adjustment, modification, alteration, tampering, disconnection, improper or inadequate maintenance.
- 2 Damage resulting from accident, acts of nature or other events beyond the control of Daimler AG.
- 3 The repair and replacement of warranted parts which are scheduled for replacement prior to 3000 hours of operation (such as fuel and air filters etc.), once these parts have been replaced at the first replacement interval as a part of required maintenance service.
- 4 Incidental or consequential damages such as loss of time, inconvenience, loss of use of the engine.
- 5 Repairs consisting solely of adjustments to idle speed, valve clearance or injection timing, or any combination thereof.

This warranty is applicable to engines certified for sale and registered in the State of California. In all other states and countries defective parts will be repaired or replaced in accordance with the terms and limitations of the warranty for new Daimler AG engines in effect at the time in such states and countries.

With respect to emission-related components, this warranty is expressly in lieu of all other warranties and representations, expressed or implied including, but not limited to, implied warranties of merchantability or fitness for a particular purpose, and all other obligations or liabilities on the part of the warrantor. Daimler AG neither assumes nor authorizes any other person to assume for it any other liability in connection with such emission-related components.

### **California Emission Warranty Parts List:**

Warranted emission-related components on engines of above family:

- 1 **Fuel Metering system**
  - (A) Injection Pump
  - (B) Fuel Injector
- 2 **Air Induction System**
  - (A) Turbocharger
  - (B) Intake manifold
- 3 **Aftertreatment System**
  - (A) DEF Compressed Air Pressure Sensor
  - (B) DEF Tank Level Sensor
  - (C) DEF Tank Temperature Sensor
  - (D) DEF Temperature Sensor
  - (E) NOx Sensor
  - (F) Temperature Sensor before SCR
  - (G) Temperature Sensor after SCR
  - (H) DEF Pressure Sensor
  - (I) DEF Doser
  - (J) DEF Dosing Unit
  - (K) DEF Pump Module
  - (L) SCR- Framemodule
  - (M) DEF Tank
  - (N) SCR- Catalyst
- 4 **Miscellaneous items used in above systems**
  - (A) Electronic Control Module (ECM)
  - (B) Intake Manifold Pressure Sensor
  - (C) Intake Manifold Temperature Sensor
  - (D) Fuel Temperature Sensor
  - (E) Timing Synchronization Sensor
  - (F) Timing Reference Sensor
  - (G) Coolant Temperature Sensor
  - (H) Oil Pressure Sensor
  - (I) Oil Temperature Sensor
  - (J) Manifold Air Humidity Sensor
  - (K) Hoses, belts, connectors, assemblies, clamps, fittings, tubing, sealing gaskets or devices and mounting hardware
  - (L) Pulleys, belts and idlers
  - (M) Emission Control Information Labels

### **Additional Warranty Information**

The warranty on emissions related parts is interpreted by CARB as follows:

- Any warranted part which is not scheduled for replacement as required maintenance, shall be warranted for the warranty period defined in the above section. If any such part fails during the period of warranty coverage, it shall be repaired or replaced under warranty. Any such part, repaired or replaced, under the warranty shall also be warranted for the remaining warranty period.
- Any warranted part scheduled only for regular inspection in the written instructions shall be warranted for the warranty period defined in the above section. Any statement in the written instruction to repair or replace as necessary shall not reduce the warranty coverage. Any such part, repaired or replaced, under the warranty shall also be warranted for the remaining warranty period.
- Any warranted part scheduled for replacement as required maintenance is warranted for the period of time prior to the first scheduled replacement point for that part. If replaced or repaired under warranty prior to the first scheduled replacement of that part, the new or repaired parts shall be warranted for the time remaining to the first scheduled replacement.

- Repair or replacement of any warranted part under shall be performed at no charge to the owner at an authorized MTU station.
- Notwithstanding the provision mentioned previously, warranty services or repairs shall be provided at all manufacturer distribution centers that are franchised to service the subject engines.
- The owner shall not be charged for diagnostic labor which leads to the determination that a warranted part is in fact defective, provided that such diagnostic work is performed at an authorized repair facility.
- The engine manufacturer shall be liable for damages to other engine components caused by failure under warranty of any warranted part.
- Throughout the engine's warranty period, Daimler AG will maintain a supply of warranted parts in order to meet the demand of such parts.
- Any replacement part may be used on the performance of any maintenance or repairs and must be provided without to the owner. It is not necessary for replacement parts to be the same brand or by the same manufacturer as the original part sold with the engine. Such use shall not reduce the warranty obligations of the engine manufacturer.
- Add-on or modified parts that are not exempted by the California Air Resources Board may not be used. The use of any non-exempted add-on or modified parts shall be grounds for disallowing a warranty claim. Daimler AG is not liable to warrant failures of warrant parts caused by the use of a non-exempted add-on or modified part.
- The Executive Officer may request and, in such cases, Daimler AG shall provide, any documents which describe the Daimler AG warranty procedures or policies.



## **Imprint**

### **Internet**

You will find further information about Mercedes-Benz engines, Daimler AG and Togum AG on the Internet at:

[www.mercedes-benz.com](http://www.mercedes-benz.com)

[www.daimler.com](http://www.daimler.com)

[www.mtu-online.com](http://www.mtu-online.com)

### **Editorial office**

You are welcome to forward any queries or suggestions you might have to the technical documentation team at the following address:

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