

# EMISSION WARRANTIES

MS60017/00E



*Power. Passion. Partnership.*

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This handbook is provided for use by maintenance and operating personnel in order to avoid malfunctions or damage during operation. Subject to alterations and amendments.

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# 1 2013 and Earlier Federal Emission Control Systems Warranty covering MTU Engines

**NOTE: THIS SECTION ONLY APPLIES TO ENGINES CERTIFIED TO THE FEDERAL AND CALIFORNIA EMISSION REGULATIONS FOR NONROAD, MARINE AND RAIL ENGINES.**

MTU warrants to the owners of a MTU compression ignition nonroad, marine and rail engine built with standard exhaust emissions components, that the engine (1) was designed, built and equipped so as to conform, at the time of sale, with applicable regulations of the U.S. Environmental Protection Agency and the California Air Resources Board and (2) is free from defects in material and workmanship which causes the engine to fail to conform with those regulations for the appropriate period of years or hours of operation (as specified below):

ENGINE TYPE	ENGINE CATEGORY	WARRANTY PERIOD (whichever occurs first)	
<b>Nonroad</b> acc. to 40 CFR §§ 60, 89, 1039	var. or const. speed	5 years / 3.000 hours	
<b>Marine</b> acc. to 40 CFR §§ 94, 1042	Cat. 1 Engine	Displacement per cylinder < 5 l	5 years / 5.000 hours
	Cat. 2 Engine	5 l ≤ Displacement per cylinder < 30 l	5 years / 10.000 hours
<b>Rail</b> acc. to 40 CFR §§ 1033	var. or const. speed	1 / 3 Useful life in terms of MW-hrs or years	

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

## 1.1 WHAT IS COVERED

These components are covered by the above warranty. Some scheduled maintenance is required (refer to the Owner's Emission Control Maintenance Service Chart).

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|--|---|
| <ul style="list-style-type: none"> <li>• Injection Pump</li> <li>• Injection NHA</li> <li>• Turbocharger</li> <li>• Electronic Control module (ECM)</li> <li>• Intercooler</li> <li>• Timing Synchronization Sensor</li> <li>• Exhaust Gas Recirculation (EGR) System</li> </ul> | <ul style="list-style-type: none"> <li>• Timing Reference Sensor</li> <li>• Oil Temperature Sensor</li> <li>• Coolant Temperature Sensor</li> <li>• Intake Manifold Pressure Sensor</li> <li>• Intake Manifold Temperature Sensor</li> <li>• Fuel Temperature Sensor</li> <li>• NOx Sensor</li> </ul> |
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## 1.2 WHAT IS NOT COVERED

- Conditions resulting from tampering, misuse, improper adjustment, alteration, accident, failure to use recommended fuel or non-performance of maintenance services;
- The replacement of non-warranted maintenance parts;
- Consequential damages such as: loss of time, inconvenience, economic loss, loss of use of 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.

MTU 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 MTU ENGINE WARRANTY FOR NONROAD, MARINE AND RAIL APPLICATIONS.

## 2 2013 California Emission Control Warranty Statement – Your Warranty Rights and Obligations

### 2.1 YOUR WARRANTY RIGHTS AND OBLIGATIONS

The California Air Resources Board and MTU are pleased to explain the emission control system warranty on your 2013 and earlier model year engine. In California, new heavy-duty off-road diesel engines must be designed, built and equipped to meet the State's stringent anti-smog standards. MTU must warrant the emission control system on your 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 the fuel-injection system and the air induction system. Also included may be hoses, belts, connectors and other emission-related assemblies.

Where a warrantable condition exists, MTU will repair your heavy-duty off-road engine at no cost to you including diagnosis, parts and labor.

### 2.2 MANUFACTURER'S EMISSION CONTROL SYSTEM WARRANTY COVERAGE:

The 2013 and earlier heavy-duty off-road engines are warranted for five (5) years or 3,000 hours of engine operation (whichever occurs first). If any emission-related part on your engine is defective, the part will be repaired or replaced by MTU.

### 2.3 OWNER'S WARRANTY RESPONSIBILITIES:

- As the heavy-duty off-road engine owner, you are responsible for the performance of the required maintenance listed in your owner's manual. MTU recommends that you retain all receipts covering maintenance on your heavy-duty off-road engine, but MTU cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.
- As the heavy-duty off-road engine owner, you should however be aware that MTU may deny you warranty coverage if your heavy-duty off-road engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.
- 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.
- You are responsible for initiating the warranty process. The ARB suggests that you present your heavy-duty off-road engine to an MTU dealer as soon as a problem exists. The warranty repairs should be completed by a factory authorized repair facility as expeditiously as possible.

If you have any questions regarding your warranty rights and responsibilities, you should contact Manager, Technical Service Warranty at 1-313-592-7000.

### 2.4 WHAT IS COVERED:

The following components are covered by the above warranty. Some scheduled maintenance is required (refer to the Owner's Emission Control Maintenance Service Chart).

(1)	Fuel Metering System (A) Fuel injection system. (B) Air/fuel ratio feedback and control system. (C) Cold start enrichment system.
(2)	Air induction System (A) Controlled hot air intake system. (B) Intake manifold (C) Heat Riser Valve and Assembly. (D) Turbocharger/Supercharger Systems. (E) Charge Air Cooling Systems.
(3)	Exhaust Gas Recirculation (EGR) System (A) EGR valve body, and carburetor spacer if applicable. (B) EGR rate feedback and control system
(4)	Air injection System (A) Air pump or pulse valve. (B) Valves affecting distribution of flow. (C) Distribution manifold.
(5)	Positive Crankcase Ventilation (PCV) System. (A) PCV Valve. (B) Oil Filler Cap.

(6)	<p>Miscellaneous items Used in Above Systems</p> <ul style="list-style-type: none"> <li>(A) Vacuum, temperature, and time sensitive valves and switches.</li> <li>(B) Electronic control units, sensors, solenoids, and wiring harnesses.</li> <li>(C) Hoses, belts, connectors, assemblies, clamps, fittings, tubing, sealing gaskets or devices, and mounting hardware.</li> <li>(D) Pulleys, belts and idlers.</li> <li>(E) Emission Control Information Labels.</li> <li>(F) Any other part with the primary purpose of reducing emissions or that can increase emissions during failure without significantly degrading engine performance.</li> </ul>
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## 2.5 WHAT IS NOT COVERED:

- Conditions resulting from tampering, misuse, improper adjustments, alteration, accident, failure to use recommended fuel or failure to comply with tasks listed under “Owner’s Warranty Responsibilities”;
- The replacement of non-warranted maintenance parts, except noted in the next section;
- Consequential damages such as: loss of time, inconvenience, economic loss, loss of use of the engine or equipment;
- Any engine in equipment on which the hour meter reading has been changed so that the engine’s usage cannot be readily determined.
- Add-on or modified parts may not be used in the emission control system. Such use shall be grounds for disallowing a warranty claim. The engine manufacturer shall not be liable to warrant failures of warranted parts caused by the use of such an add-on or modified part.

## 2.6 ADDITIONAL WARRANTY INFORMATION:

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

- 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.
- 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.
- 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:

## 3 THINGS YOU SHOULD KNOW ABOUT THE EMISSION CONTROL SYSTEMS WARRANTY

### 3.1 REPLACEMENT PARTS

The emission control systems of your new MTU engine were designed, built and tested using genuine MTU parts\* and the engine is certified as being in conformity with applicable regulations of the U.S. (Federal) Environmental Protection Agency and the California Air Resources Board. Accordingly, it is recommended that any replacement parts used for maintenance or for the repair of emission control systems be new, genuine MTU parts.

THE WARRANTY OBLIGATIONS ARE NOT DEPENDENT UPON THE USE OF ANY PARTICULAR BRAND OF REPLACEMENT PARTS. THE OWNER MAY ELECT TO USE NON-GENUINE MTU PARTS FOR REPLACEMENT PURPOSE. USE OF REPLACEMENT PARTS WHICH ARE NOT OF EQUIVALENT QUALITY MAY IMPAIR THE EFFECTIVENESS OF EMISSION CONTROL SYSTEMS.

If other than genuine MTU parts are used for maintenance, replacements or for the repair of components affecting emission controls, the owner should assure himself/herself that such parts are warranted by their manufacturer to be equivalent to genuine MTU parts in performance durability.

### 3.2 MAINTENANCE AND REPAIRS

MAINTENANCE AND REPAIRS CAN BE PERFORMED BY ANY QUALIFIED SERVICE OUTLET: HOWEVER, WARRANTY REPAIRS MUST BE PERFORMED BY AN AUTHORIZED MTU SERVICE OUTLET.

Receipts covering the performance of regular maintenance should be retained in the event questions arise concerning maintenance. These receipts should be transferred to each subsequent owner of this equipment. MTU reserves the right to deny warranty coverage if the required maintenance has not been performed. However, this decision would not be based solely on the absence of maintenance records. Repairs covered by this warranty will be made at no charge by an authorized MTU Service Outlet.

\* *“GENUINE MTU PARTS” when used in connection with MTU Engines, means parts manufactured by or for MTU, designed for use on MTU Engines and distributed by MTU. This definition includes remanufactured assemblies designated reliable<sup>®</sup> and sold by authorized MTU Distributors that may be used in performing warranty repairs.*

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## 4 U.S. CLEAN AIR ACT

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### 4.1 U.S. CLEAN AIR ACT

The U.S. Clean Air Act requires the engine manufacturer to furnish, with each new diesel engine to be installed in nonroad equipment, written instructions for proper maintenance and use of the equipment or engine by the ultimate purchaser. The instruction shall correspond to regulations which the Administrator of the Environmental Protection Agency (EPA) shall promulgate. This booklet provides these instructions to owners in compliance with the law.

### 4.2 NORMAL ENGINE USE

The owner's maintenance instructions contained in this booklet are based on the assumption that the engine will be used to power nonroad equipment which will be used as designed:

- To operate within the specifications as provided by the equipment manufacturer,
- To operate on a daily basis, as a general rule, for at least several hours,
- To operate on specified fuel and lubricating oils as covered in the Owner's/Operator's Manual

Unusual operating conditions will require more frequent engine maintenance as specified in the Section "Explanation of Owner's Emission Control Maintenance Services."





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