Procedure for When Diesel Fuel Tank is Filled with Incorrect Fuel Type

Topic number LI47.10-N-079010

Version

Function group 47.10 - Fuel tank

Date 3/10/25

Validity All Diesel Engines

Reason for change

Complaint

Procedure for When Diesel Fuel Tank is Filled with Incorrect Fuel Type (e.g., gasoline, water, biodiesel, AdBlue/DEF)

Cause

The incorrect fuel type, such as gasoline, water, biodiesel, or AdBlue/DEF has been added to the fuel system.

Remedy

We would like to notify you of the following procedure regarding incorrectly refueling a vehicle with spark-ignition engine fuel or AdBlue®:

Incorrect refueling with spark-ignition engine fuel or AdBlue® is the customer's responsibility and may not be covered under warranty.

If a vehicle with a common rail diesel injection system is incorrectly refueled with spark-ignition engine fuel or Ad-Blue®, follow these steps:

- 1. Check Engine Status:
- Determine whether the engine was started after the incorrect refueling.
- 2. If the Engine Was Not Started:
- Empty the fuel tank.
- Clean the fuel low-pressure lines.
- 3. If the Engine Was Started:
- Disconnect the Y-Distributor Unit:
- Disconnect the Y-distributor unit (return line to high-pressure pump/rail) at the output.
- With the ignition ON, collect the fuel in a clean container.
- Check the collected fuel for metal shavings.
- 4. If No Shavings Are Found:

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- Provided there are no shavings in the injection system and the high-pressure pump is undamaged, proceed as follows:
- Empty the fuel tank.
- Clean the low-pressure lines.
- Replace the fuel filter.
- 5. If Metal Shavings Are Found:
- If metal shavings are found in the injection system or the high-pressure pump is damaged, replace the following components to ensure there are no remaining metal particles in the fuel system (refer to XPI for applicable part numbers):
- Fuel Tank
- Low-Pressure Fuel Pump
- Fuel Filter
- High-Pressure Pump
- Rail/s (including Pressure Regulating Valve and Rail Pressure Sensor)
- · High-Pressure Lines and Leak Lines
- Injectors
- Additionally, thoroughly clean the low-pressure lines.
- 6. If No Shavings Are Found but the High-Pressure Pump Is Damaged:
- Identify and resolve the cause of the high-pressure pump damage before replacing the high-pressure pump.

NOTE: Always refer to the WIS document 'SI47.10-S-0004B - Service Information: Procedure when the Fuel Tank is Filled with Incorrect Fuel' for the most up-to-date work instructions.

WIS-References				
Document number	Title	Note		
SI47.10-S-0004B	Service Information: Procedure when fuel tank is filled with incorrect fuel			

Disclaimer

NOTE: The information contained in this document is intended for use by trained, professional technicians with the knowledge to properly and safely perform diagnosis and repairs on Mercedes-Benz vehicles, using Mercedes-Benz approved tools and equipment. It informs service technicians about conditions that could occur in certain vehicles and provides information that could assist in proper vehicle diagnosis, service, or repair. It does not indicate that a defect is present in any vehicle referenced in this document nor does it imply warranty coverage. DO NOT assume that a symptom or condition, or a described cause of a symptom or condition, affects any particular vehicle or groups of vehicles, or that a described repair applies to any particular vehicle or groups of vehicles. There can be multiple causes resulting in the same or similar symptoms or conditions described in this document, and trained professional service technicians must use their diagnostic skills to make evaluations on a case-by-case basis. The information contained in this document does not quarantee warranty coverage nor does it extend the vehicle's warranty in any way.

Symptoms		
Power generation > Fuel system > Fuel pump > Malfunction		
Power generation > Fuel system > Godor		

Operation numbers/damage codes

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Op. no.	Operation text	Time	Damage	Note
			code	