

## ALS Diesel Fuel Test Information

---

Topic number	LI47.00-N-062649
Version	2
Design group	47.00 General
Date	04-01-2016
Validity	Model 906 with OM642 or OM651 engines
Reason for change	Updated Attachments
Reason for block	

---

### Complaint:

Diagnosis of poor engine running conditions which may be fuel related, laboratory testing required

### Cause:

The fuel used in the vehicle may be incorrect (Gasoline, high biodiesel content > 5% ) or may have contamination present (water, oil, Diesel Exhaust Fluid) in the fuel.

### Remedy:

MBUSA in cooperation with ALS Tribology Laboratory Group has offered a Diesel fuel laboratory test kit since April 8, 2010. This service allows dealers to accurately determine the quality of the fuel in the vehicle at the time of service.

The benefits of ALS Laboratory Group include:

- Reduced turnaround time
- Reduced fuel testing cost (\$62.40 + outbound shipping)
- Wider scope of testing including:
  - FAME content (%biodiesel content)
  - Appearance
  - Cetane index
  - Distillation
  - API gravity
  - Viscosity
  - Sulfur
  - Cloud point
  - Water by Karl Fischer
  - Total acid number
  - Flash point

# XENTRY TIPS

---

Test kits can be ordered and stocked by dealers to be readily available for use by filling out the attached ALS "Diesel Fuel Test Order Form." ALS has two testing centers located in Eastern and Western USA. Test results are electronically sent to the dealer contact information provided on the "Diesel Fuel Test Order Form." Submit completed form via email or fax to either the Eastern or Western Test Center, whichever test center is closest to your dealership.

ALS will ship the test kits ordered to your dealership upon payment processing. The purchase of a test kit includes the cost of testing the diesel fuel sample so no additional charge is incurred at time of fuel analysis.

Note: The cost of this test may be claimed under MBUSA "sublet repair" policy when used to diagnose a warrantable manufacturer defect.

Shipment Contents Include:

Sample Bottle, UN- shipping box with packing tape, absorbent lined bag, shipping labels, "Instructions for Returning Fuel Samples" sheet, "Closing Instructions," and "Fuel Sample Information Form."

There seems to be some confusion about the proper way to fill out the "Fuel Sample Information Form." In order to be provided with more accurate and timely test results from ALS Testing Laboratories, it is important that dealers fill out the "Fuel Sample Information Form" in the proper manner.

Attached is a completed sample of the "Fuel Sample Information Form." Please note that both the PTSS Case number and VIN number **MUST** be filled out. Failure to provide either of these numbers will result in MBUSA's inability to properly process the diesel fuel test result that are received from the ALS Laboratories with the technical history of the vehicle in our system. In addition, the "Instructions for Returning Fuel Samples" is also attaches showing how to ship the fuel sample to ALS

A PTSS Case number is required for this repair/test; please open an online PTSS Case in order to receive a PTSS Case number for the "Fuel Sample Information Form." Provide details of customer complaint, why the test is being submitted, and which, if any, component is suspected.

When you receive the ALS Tribology "Fuel Sample Analysis" results, attach the test result to the PTSS case.

Mercedes-Benz specification values are listed in the attached "Example of ALS Fuel Test Analysis"

Should the test results be out of specification, please refer to service bulletin V-B-47.10/01b "MY-All, Model 902 with Engine 612, 903, 904, and 906 with Engine 642, 647, and 651 Procedure for When Diesel Fuel Tank is Filled with Incorrect Fuel Type" found in CV TekInfo under under CV Bulletins-->Service Bulletins

Attachments	
File	Description
MBUSA Order Form11_18_15.pdf	Mercedes Benz Diesel Fuel Test Order Form
ALS Shipping Instructions- Mercedes Benz.pdf	Instructions for Returning Fuel Samples
Closing Insturctions.pdf	Closing Instructions
image2015-11-19-113115.pdf	Fuel Sample Information Form
Example of ALS Fuel Test 1.jpg	Example of ALS Fuel Test Analysis

Symptoms
----------

# XENTRY TIPS

Power generation / Engine management / Engine running / Stalls/goes out
Power generation / Engine management / Engine running / Cuts out intermittently
Power generation / Engine management / Engine running / Runs rough/shakes
Power generation / Fuel system / Fuel tank / Corrosion / Corrosion
Power generation / Engine management / Engine performance / Goes into limp-home mode
Power generation / Engine management / Engine performance / No/poor output

Validity		
Vehicle	Engine	Transmission
Sprinter III	651	*
Sprinter III	642	*