



Mercedes-Benz

star bulletin



DTB

Date: February 9, 2009
Order No.: S-B-18.00/40a
Supersedes: S-B-18.00/40 dated October 28, 2008
Group: 18

Revision History

Revision	Date	Purpose
a	2/909	Revised Work Instructions and Parts Information Updated
-	10/28/08	Initial issue

**SUBJECT: Model 163, 164, 170, 171, 203, 204, 209, 211, 215, 216, 219, 220, 221, 230, 251 and 463
AMG Vehicles
Equipped with Engine 112.96x, 113.98x, 113.99x, 156.98x or 275.98x
Oil Consumption**

If you receive customer reports in the above model AMG vehicles of excessive oil consumption due to repeated oil level messages in the instrument cluster, review the information below and follow instructions accordingly.

Factors which may influence oil consumption:

- Usage related influences that increase oil consumption:
 - The load spectrum is significantly higher than on comparable standard production engines
 - Driving profile (aggressive driving style)
 - Normal engine wear after break in is completed
- Design related influences that increase oil consumption:

Engine 156

 - High RPM design
 - Large piston diameter
 - Low friction design

Engines 112.96x, 113.98x/99x, 275.98x:

 - Increased stroke (113.98x/99x) compared to the standard engine
 - Low friction design
 - Number of cylinders (275.98x)
 - Turbocharging (275.98x)

This bulletin has been created and maintained in accordance with MBUSA-SLP S423QH001, Document and Data Control, and MBUSA-SLP S424HH001, Control of Quality Records.

Before repair actions are taken, please note the following:

1. Oil consumption may be higher if the vehicle is new or frequently driven at high engine speeds.
2. An oil consumption measuring test should only be performed after the engine break-in period of at least 6200 miles (~10000 km).
3. The maximum allowable oil consumption specification is 1.35 quart/1000 mi. (0.8 liter/1000km).
4. Accurate measurement of oil consumption can only be accomplished after driving longer distances, minimum 300 miles (~500 km).
5. An oil consumption measurement must always be performed to substantiate all customer oil consumption complaints.
6. To ensure the most accurate measurement possible, perform the consumption test using the weighing method.

i **Note:** Prior to performing an oil measurement test inspect the engine for any evidence of oil leaks or any malfunctions with the crankcase ventilation system that would contribute to increased oil consumption. An oil consumption test must be completed prior to any major engine repairs for oil consumption complaints.