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## Oil ejection from transmission breather or oil pump whistling during dynamic driving style

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|-------------------|-----------------------------------------------------------------------------------------------------------------|
| Topic number      | LI27.10-P-059642                                                                                                |
| Version           | 1                                                                                                               |
| Design group      | 27.10 Complete transmission                                                                                     |
| Date              | 08-11-2014                                                                                                      |
| Validity          | AMG vehicles with transmission 722.905/722.907/722.909/722.930/722.931/722.932/722.971 as of production 06/2012 |
| Reason for change |                                                                                                                 |
| Reason for block  |                                                                                                                 |

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### Complaint:

Smoke formation because of oil overflow or oil pump whistling from transmission breather during dynamic driving style

### Cause:

Oil overflow: When vehicle is delivered with an excessively high oil level, and when driven with a sporty driving style and higher gear oil temperature, the gear oil can foam up enough to exit at the transmission breather.

Oil pump screeching: When vehicle is delivered with an excessively low oil level, and when in dynamic driving situations the oil supply to the pump may be insufficient, thus generating the whistling sound.

### Remedy:

#### Note:

Oil overflow caused by foaming can be counteracted by replacing oil because of a different chemical composition of the Shell ATF 134FE (available from PDCs) in comparison to the Fuchs ATF 134FE (filled at the factory). Furthermore the correct oil level can be set to help avoid the oil pump screeching effect. Therefore, if either complaint occurs, it is advisable to replace the oil by switching to the Shell version.

Before starting the repair, make sure that any leaked oil was actually ejected through the breather (i.e. there are no true oil leaks)

#### Procedure for replacing oil:

- 1) Completely drain off gear oil (remove transmission oil pan to remove all oil)
- 2) Mount transmission oil pan using old bolts and add Shell oil to transmission
- 3) Start engine and let it idle for approx. 1 minute
- 4) Completely drain off gear oil again (dismantle transmission oil pan)
- 5) Mount transmission oil pan using new bolts and new seal
- 6) Add Shell oil to transmission and adjust oil level at 40°C (screw in drain screw, as soon as thicker oil stream starts to separate)

|                                                                                                   |
|---------------------------------------------------------------------------------------------------|
| Symptoms                                                                                          |
| Power transmission / Automatic transmission / Automatic transmission - noises / Howling/whistling |
| Power transmission / Automatic transmission / Automatic transmission, leaks / Leaks               |

|       |
|-------|
| Parts |
|-------|

| Part number     | ES1 | ES2 | Designation              | Quantity | Note                                              | EPC | Other<br>ma-<br>ke<br>part |
|-----------------|-----|-----|--------------------------|----------|---------------------------------------------------|-----|----------------------------|
| A 220 271 03 80 |     |     | Oil pan gasket           | 1        |                                                   | X   |                            |
| A 004 990 35 12 |     |     | Bolt                     | 6        |                                                   | X   |                            |
| A 001 989 78 03 |     |     | Shell ATF 134FE gear oil |          | Part Number with extension: A<br>001 989 78 03 09 | X   |                            |

## WIS-References

| Document number  | Title                                                                | Note | Allocation |
|------------------|----------------------------------------------------------------------|------|------------|
| GI27.55-P-058816 | Procedure in case of slight<br>oil traces on TRANSMIS-<br>SION 722.9 |      | Remedy     |

## Validity

| Vehicle | Engine | Transmission |
|---------|--------|--------------|
| 166.074 | 157    | 722.905      |
| 166.874 | 157    | 722.905      |
| 172.475 | 152    | 722.909      |
| 204.077 | 156    | 722.930      |
| 204.277 | 156    | 722.930      |
| 204.377 | 156    | 722.930      |
| 212.074 | 157    | 722.931      |
| 212.075 | 157    | 722.931      |
| 212.076 | 157    | 722.971      |
| 212.092 | 157    | 722.971      |
| 212.274 | 157    | 722.931      |
| 212.275 | 157    | 722.931      |
| 212.276 | 157    | 722.971      |
| 212.292 | 157    | 722.971      |
| 216.374 | 157    | 722.931      |
| 217.377 | 157    | 722.931      |
| 217.378 | 157    | 722.971      |
| 217.379 | 279    | 722.932      |
| 218.374 | 157    | 722.931      |
| 218.375 | 157    | 722.931      |
| 218.376 | 157    | 722.971      |
| 218.392 | 157    | 722.971      |
| 218.974 | 157    | 722.931      |
| 218.975 | 157    | 722.931      |
| 218.976 | 157    | 722.971      |

# XENTRY

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|---------|-----|---------|
| 218.992 | 157 | 722.971 |
| 221.074 | 157 | 722.931 |
| 221.174 | 157 | 722.931 |
| 222.077 | 157 | 722.931 |
| 222.177 | 157 | 722.931 |
| 222.178 | 157 | 722.971 |
| 222.179 | 279 | 722.932 |
| 231.474 | 157 | 722.931 |
| 231.479 | 279 | 722.932 |
| 463.272 | 157 | 722.905 |
| 463.273 | 157 | 722.905 |
| 463.274 | 279 | 722.932 |