Engine 156 in model 164

Modification notes

| 22.02.2016 Add engine oil. Onl | |
|--------------------------------|--|
|--------------------------------|--|

- 1 Oil filter screw-on cover
- 2 Oil filter element
- 3 Sealing ring
- 4 Oil dipstick

7

8 9

10

11

12

Oil pan Drain screw

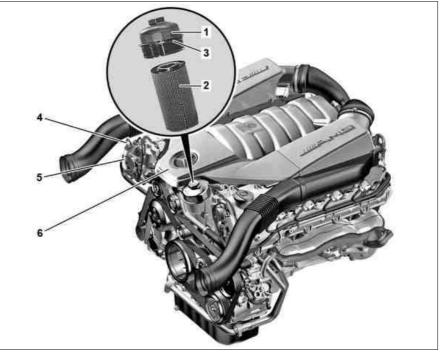
Sealing ring

Drain screw

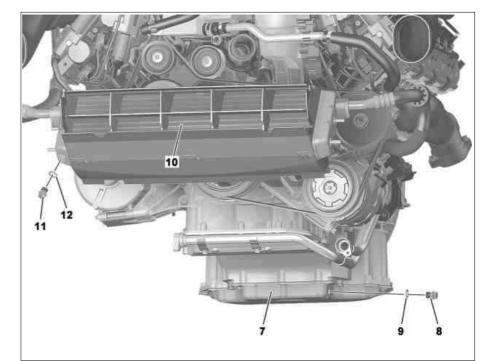
Sealing ring

Oil cooler

- 5 Oil measuring pipe
- 6 Front engine trim panel



P18.00-2360-06



P18.00-2381-06

| ▲ Caution | Risk of injury to skin and eyes due to | Wear protective gloves, protective clothing | AS18.00-Z-0001-01A |
|-----------|---|--|--------------------|
| | handling of engine oil. Risk of poisoning | and safety glasses. | |
| | caused by swallowing engine oil | Do not fill engine oil into beverage containers. | |

| ⚠ Warning | Risk of accident from vehicle starting off by itself when engine running. Risk of injury | Secure vehicle to prevent it from starting off by itself. Wear closed and snug-fitting work | AS00.00-Z-0005-01A |
|--|---|--|--------------------------------------|
| | (bruises and burns) resulting from working on the engine while it is being started or when it is running. | clothes. Do not touch hot or rotating parts. | |
| ⚠ Danger | Risk of death caused by vehicle slipping or toppling off of the lifting platform. | Align vehicle between vehicle lift columns and position the four support plates at the vehicle lift support points specified by the vehicle manufacturer. | AS00.00-Z-0010-01A |
| | Notes on engine oil and filter changes | | AH18.00-P-0104-01A |
| X | Remove | | |
| 1 | Allow engine to warm up | i Coolant temperature at least 80 °C. | |
| 2 | Remove front engine cover (6) | | |
| 3 | Remove oil filter threaded cap (1) | Unscrew oil filter threaded cap (1), depending on version, using socket, and lift only far enough out of oil filter housing so that the engine oil can drain out of the oil filter and the oil filter housing. Socket wrench bit | *642589000900 |
| 4 ₩ • • • • • • • • • • • • • • • • • • • | Detach lower engine compartment paneling | | AR61.20-P-1105GZ |
| 5 | Unscrew drain screw (8) at oil pan (7) and drain engine oil | | |
| 6 | Unscrew drain screw (11) at oil cooler (10) and drain engine oil | | |
| X | Install | | |
| 7 | Replace sealing rings (9, 12) from drain screws (8, 11) | | |
| 8 | Screw in drain screw (8) at oil pan (7) | Nm Oil drain screw to oil pan | *BA01.45-P-1001-01R |
| 9 | Screw in drain screw (11) at oil cooler (10) | Mm Drain plug to oil cooler | *BA18.30-P-1017-01B |
| 10 ⊯∽ar | Install lower engine compartment paneling. | | AR61.20-P-1105GZ |
| 11 | Remove oil filter threaded cap (1) | | |
| 12 | Replace oil filter element (2) | | |
| 13 | Replace sealing ring (3) | | |
| 14 | Install oil filter threaded cap (1) | ⊥ Unscrew the oil filter threaded cap (1) (depending on the version) using 𝔅 socket. № Threaded cap to oil filter housing 𝔅 Socket wrench bit | *BA18.20-P-1001-01V *642589000900 |
| 15 | Pour in engine oil | Oosteet wench bit Only use approved engine oils as per SAE 0W-40 or 5W-40. Engine damage can occur otherwise. Engine oil | *BF18.00-P-1001-01V |
| ব | Check | | |
| 16 | Run engine until it is at operating temperature, and check for leaktightness | i Coolant temperature at least 80 °C. In the event of leakage: ↓ Determine and rectify cause, subject to separate repair order. | |
| 17 | Turn off engine | | |
| 18 | Pull oil dipstick (4) out of oil measuring pipe (5) and wipe with a lint-free cloth | | |
| 19 | Check engine oil level using oil dipstick (4); correct if necessary | i Insert oil dipstick (4) into the oil measuring pipe (5) until the end stop and hold in for a duration of at least 3 seconds. | AP18.00-P-1811MP |
| X | Install | | |
| 20 | Install front engine cover (6) | | |

Nm Oil pan

| Number | Designation | | Engine 156 |
|--------------------|----------------------------|----|------------|
| BA01.45-P-1001-01R | Oil drain screw to oil pan | Nm | 30 |

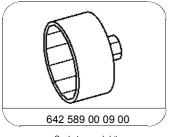
| Number | Designation | | Engine 156 |
|--------------------|------------------------------------|----|------------|
| BA18.20-P-1001-01V | Threaded cap to oil filter housing | Nm | 25 |

Nm Oil cooling system

| Number | Designation | | Engine 156 |
|--------------------|--------------------------|----|------------|
| BA18.30-P-1017-01B | Drain plug to oil cooler | Nm | 15 |

Engine lubrication system

| Number | Designation | | Engine 156 in model 164 |
|--------------------|-------------|--|----------------------------|
| BF18.00-P-1001-01V | Engine oil | Filling capacity (oil Liter and filter change) | 9,7 |
| | | Sheet | BB00.40-P-0229-05 A |
| | | Sheet | - |
| | | Sheet | - |



Socket wrench bit