



How to change engine oil  
and filter on **Mercedes**  
**W124** – replacement  
guide

## VIDEO TUTORIAL



### Important!

This replacement procedure can be used for:

MERCEDES-BENZ 190 (W201) D 2.0 (201.122), MERCEDES-BENZ 190 (W201) D 2.5 (201.126), MERCEDES-BENZ 190 (W201) Turbo-D 2.5 (201.128), MERCEDES-BENZ Saloon (W124) 200 D 2.0 (124.120), MERCEDES-BENZ Saloon (W124) 250 D 2.5 (124.125), MERCEDES-BENZ Saloon (W124) 250 2.5 Turbo diesel (124.128), MERCEDES-BENZ Saloon (W124) 300 D 3.0 (124.130), MERCEDES-BENZ Saloon (W124) 300 D 3.0 4-matic (124.330), MERCEDES-BENZ E-Class Saloon (W124) E 300 D (124.131), MERCEDES-BENZ Saloon (W124) 300 Turbo diesel 3.0 4-matic (124.333), MERCEDES-BENZ Saloon (W124) 300 3.0 Turbo diesel (124.133), MERCEDES-BENZ W124 Estate (S124) 200 D 2.0 (124.180), MERCEDES-BENZ W124 Estate (S124) 250 D 2.5 (124.185), MERCEDES-BENZ W124 Estate (S124) 300 D 3.0 (124.190), MERCEDES-BENZ E-Class T-modell (S124) E 300 TD (124.191), (+ 53)

The steps may slightly vary depending on the car design.

**REPLACEMENT: ENGINE OIL AND FILTER – MERCEDES W124. LIST OF THE TOOLS YOU'LL NEED:**



- Wire brush
- All-purpose cleaning spray
- Torque wrench
- Drive socket # 13
- Ratchet wrench
- Flat screwdriver
- Funnel
- Oil drain pan
- Fender cover

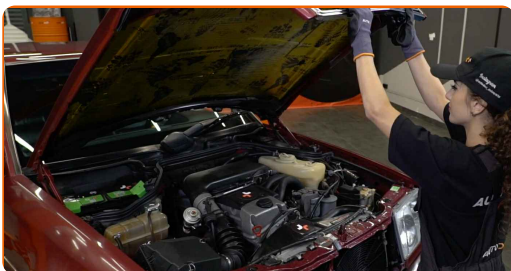
**BUY TOOLS**

**Replacement: engine oil and filter – Mercedes W124. Tip:**

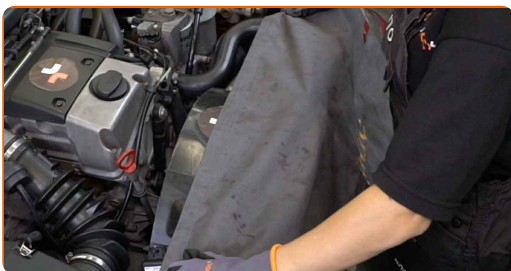
- Replace the oil filter every time when changing motor oil.
- Wear gloves to prevent contact with hot liquid.
- Please note: all work on the car – Mercedes W124 – should be done with the engine switched off.

**CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:**

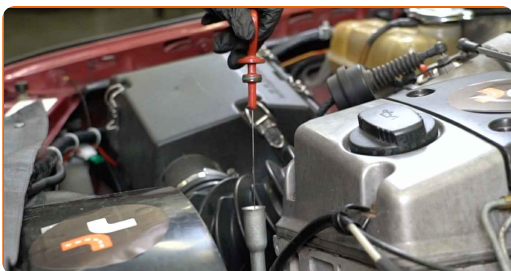
**1** Open the bonnet.



**2** Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.



**3** Pull up the oil dipstick.



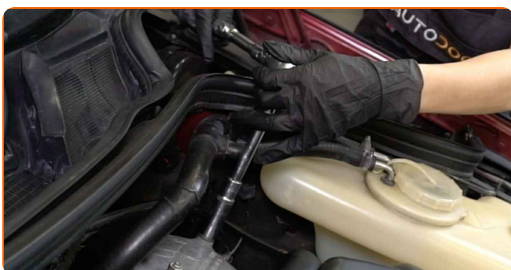
**4** Unscrew the oil filler plug.



**5** Clean the oil filter housing cap. Use all-purpose cleaning spray.



**6** Unscrew the fasteners of the oil filter housing cap. Use a drive socket #13. Use a ratchet wrench.



**7** Remove the oil filter housing cap.



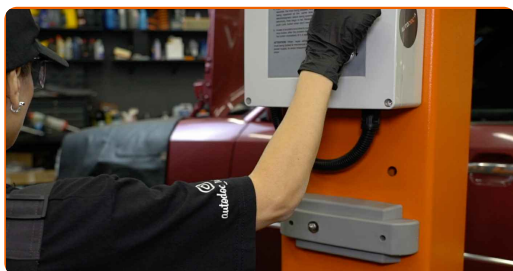
**8** Take the oil filter out of its housing.



**9** Cover the oil filter housing with a microfibre towel to prevent dirt and foreign objects from getting into the system.



**10** Lift the car using a jack or place it over an inspection pit.



**Replacement: engine oil and filter – Mercedes W124. AUTODOC recommends:**

- The vehicle must be on a level surface, but if it is at an angle, the drain plug must be at the lowest point.

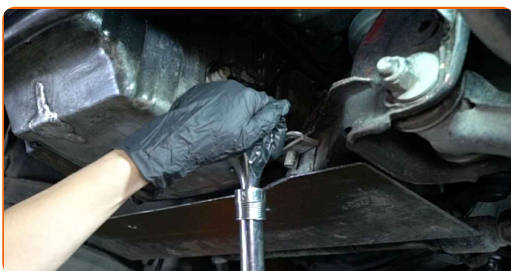
**11** Put a waste oil container with at least 7 l capacity under the drainage hole.



**12** Clean the area of the oil pan drainage hole. Use a wire brush. Use all-purpose cleaning spray.



**13** Unscrew the drain plug. Use a drive socket #13. Use a ratchet wrench.



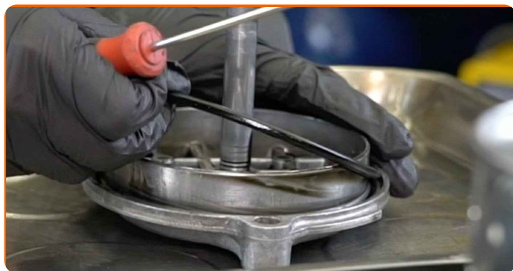
**14** Drain the used oil.



**AUTODOC recommends:**

- Caution! The oil may be hot.
- Wait until the oil has completely drained from the drainage hole.

**15** Remove the old seal of the oil filter cap. Use a flat screwdriver.



**16** Clean the oil filter housing cap. Use all-purpose cleaning spray.



**17** Install a new oil filter cap seal.

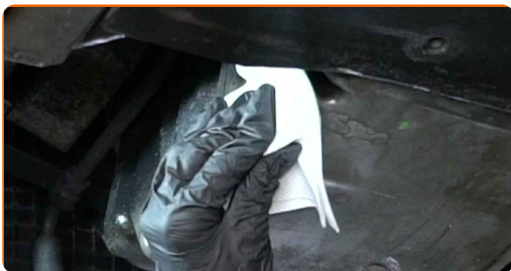


Replacement: engine oil and filter – Mercedes W124. AUTODOC experts recommend:

- Use only new O-rings during installation.



**18** Clean the area of the oil pan drainage hole. Use all-purpose cleaning spray.



**19** Screw in the new drainage plug and tighten it. Use a drive socket #13. Use a torque wrench. Tighten it to 30 Nm torque.



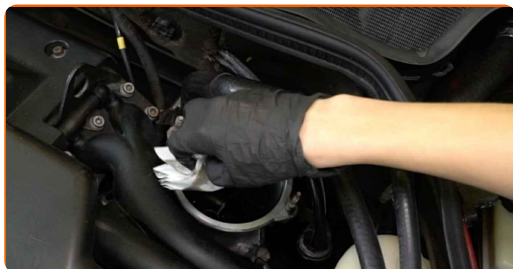
**20** Clean the area of the oil pan drainage hole. Use all-purpose cleaning spray.



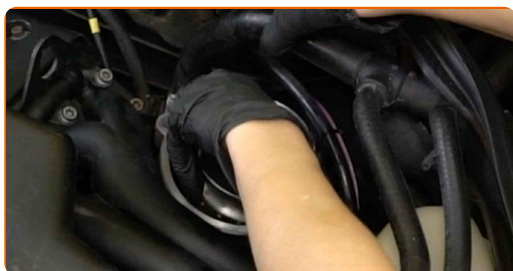
**21** Lower the car.



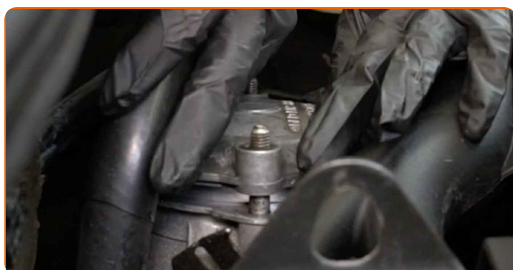
**22** Remove the microfibre towel from the oil filter housing.



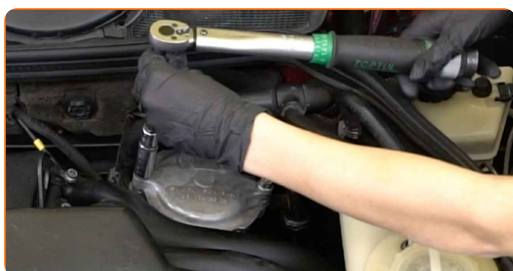
**23** Install a new oil filter.



**24** Install the oil filter housing cap.



**25** Tighten the fasteners of the oil filter housing cap. Use a drive socket #13. Use a torque wrench. Tighten it to 25 Nm torque.



**26** Remove the oil filler cap.



**27** Insert the funnel.



**28** Pour oil into the engine through the filler. Required amount of oil: 6.5 l.



**AUTODOC recommends:**

- Use the oil recommended by the manufacturer.

**29** Check the oil level using the dipstick.

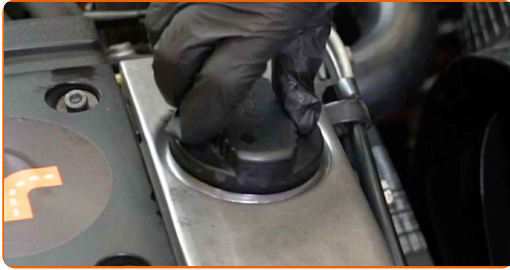


**Replacement: engine oil and filter – Mercedes W124. Professionals recommend:**

- Top up oil if necessary.
- The oil level should be between the Min and Max marks.

**30**

Install the oil filler cap.



**31**

Tighten the oil filler cap.



**32**

Run the engine for a few minutes. After the oil pressure warning light goes out, stop the engine.



**Replacement: engine oil and filter – Mercedes W124. Tip from AUTODOC experts:**

- Note that oil pressure warning light, which indicates insufficient pressure in the lubrication system, may be on for a longer time than usual. After a few seconds, the oil will fill all the channels, and the light will go out.

33

Check the oil level with a dipstick 5 minutes after turning the engine off and add oil if necessary.



Please note!

- The oil level should be between the Min and Max marks.

34

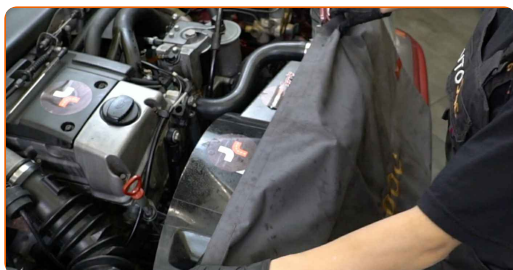
Make sure that the oil filler cap is properly tightened.

35

Check the threaded plug of the drainage hole and the oil filter seal for tightness. If necessary, carefully tighten them up.

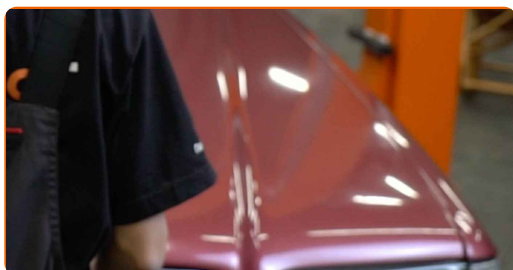
36

Remove the fender protection cover.



37

Close the bonnet.



**AUTODOC recommends:**

- To protect the environment from pollution, be sure to dispose of the used filters at special collection points.

**WELL DONE!** 

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