



How to change engine oil  
and filter on **Mercedes**  
**W168 petrol** –  
replacement guide

## VIDEO TUTORIAL

** Important!**

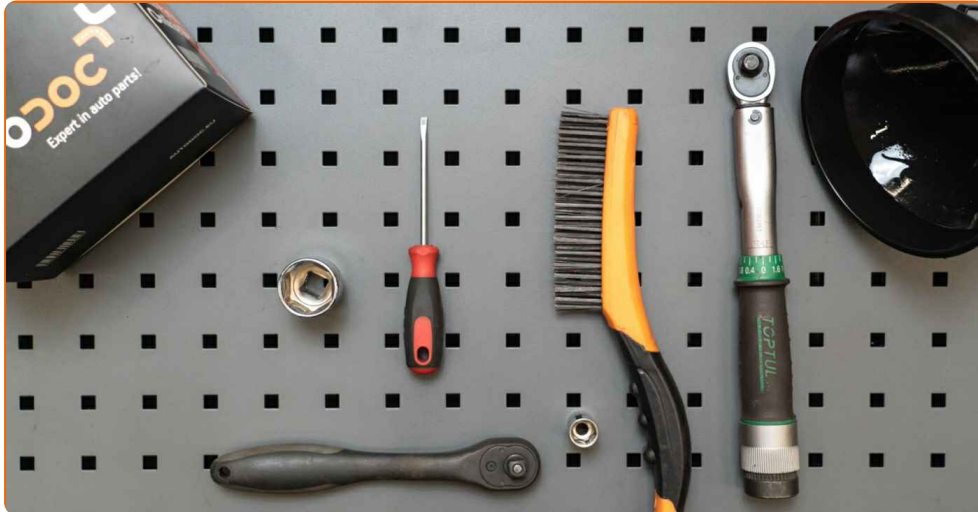
This replacement procedure can be used for:

MERCEDES-BENZ A-Class (W168) A 140 (168.031, 168.131), MERCEDES-BENZ A-Class (W168) A 190 (168.032, 168.132), MERCEDES-BENZ Vaneo (414) 1.6 (414.700), MERCEDES-BENZ Vaneo (414) 1.9 (414.700), MERCEDES-BENZ A-Class (W168) A 210 (168.035, 168.135)

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The steps may slightly vary depending on the car design.

REPLACEMENT: ENGINE OIL AND FILTER – MERCEDES W168. LIST OF THE TOOLS YOU'LL NEED:



- All-purpose cleaning spray
- Drive socket # 13
- Drive socket # 27
- Ratchet wrench
- Torque wrench
- Flat Screwdriver
- Funnel
- Oil drain pan
- Fender cover

**BUY TOOLS**

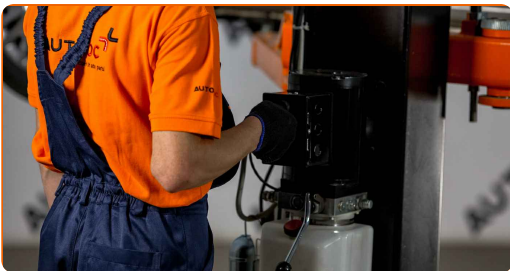
Replacement: engine oil and filter – Mercedes W168. AUTODOC experts recommend:

- Replace the oil filter every time when changing motor oil.
- Wear gloves to prevent contact with hot liquid.
- Use only new O-rings during installation.
- Replacement: engine oil and filter – Mercedes W168. Use the following procedure:

## CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1

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



Replacement: engine oil and filter – Mercedes W168. Tip:

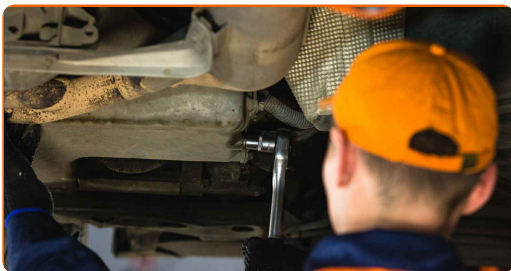
- The vehicle must be on even keel, and if it is at an angle, the drain plug must be at the lowest point.
- All work should be done with the engine stopped.

2

Put a waste oil container with at least 5 l capacity under the drainage hole.

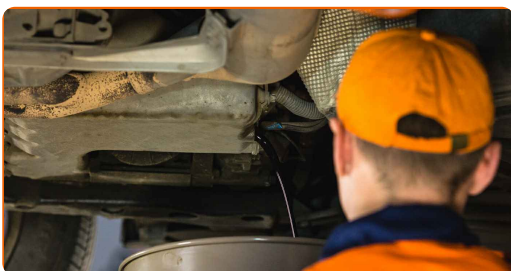
3

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



4

Drain the used oil.

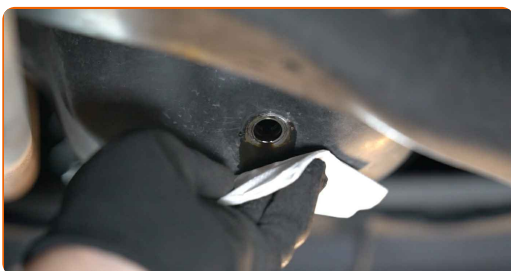


Replacement: engine oil and filter – Mercedes W168. AUTODOC recommends:

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

5

Clean the area of the oil pan drainage hole.



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

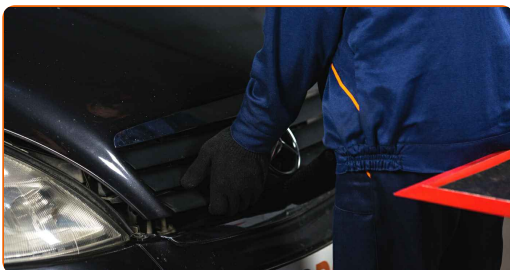


**7** Clean the area of the oil pan drainage hole. Use all-purpose cleaning spray.

**8** Lower the car.

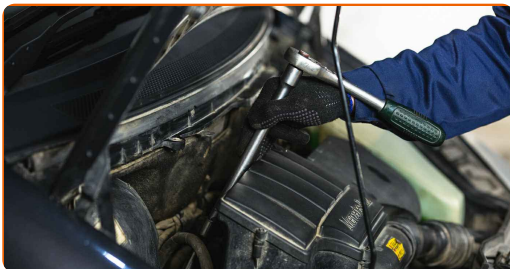


**9** Open the hood.



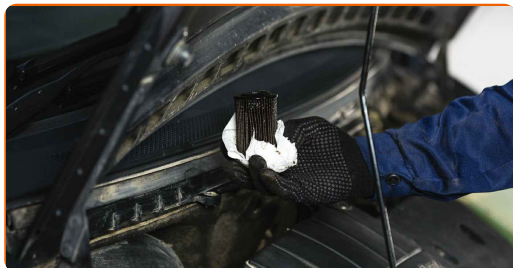
**10** Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.

**11** Unscrew the filter housing cap together with the old filter element. Use a drive socket #27. Use a ratchet wrench.



**12** Prepare a container for the old oil filter.

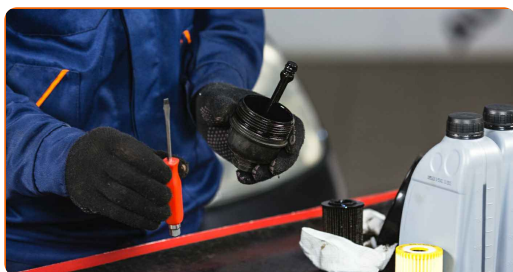
**13** Put the old oil filter in the container.



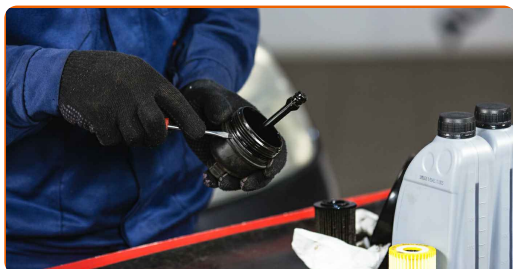
Replacement: engine oil and filter – Mercedes W168. Professionals recommend:

- Move up the container. The oil starts to drain out of the drainage hole immediately after you have removed the oil filter.

**14** Detach the oil filter from the filter cover.

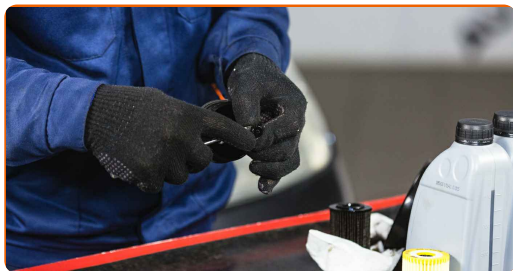


**15.1** Remove old o-rings from the oil filter cover.



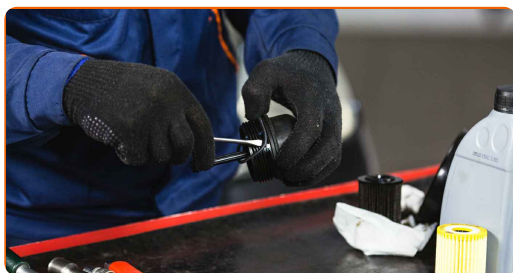
**15.2**

Use a flat screwdriver.



**16**

Install new O-rings (2 pieces) and a new oil filter to their mounting seats on the filter cover. Use a flat screwdriver.

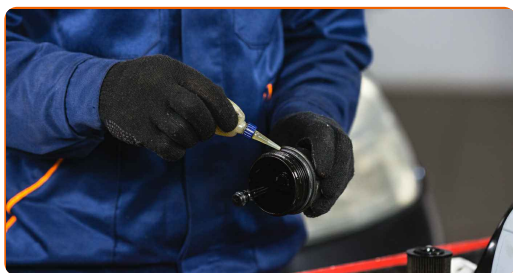


**Please note!**

- Make sure to install the filter correctly. Don't mix up the sides of the part.

**17**

Lubricate the rubber seal of the new filter with a little amount of fresh oil.



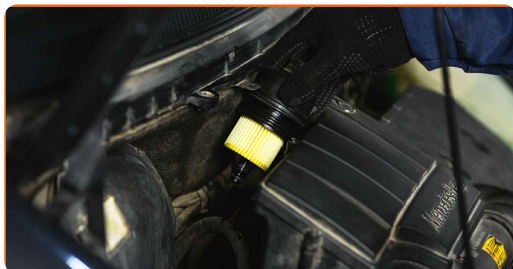
**18**

Clean the oil filter seat.



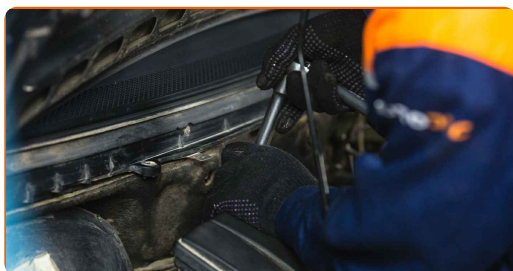
**19.1**

Install a new oil filter housing cover and tighten it.



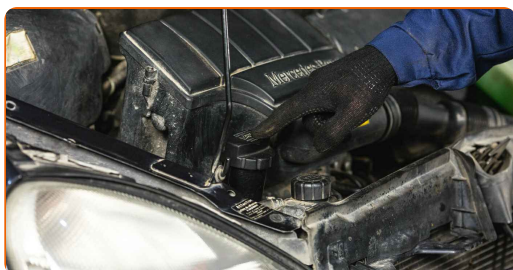
**19.2**

Use a drive socket #27. Use a torque wrench. Tighten it to 25 Nm torque.



**20**

Unscrew the oil filler plug.



**21**

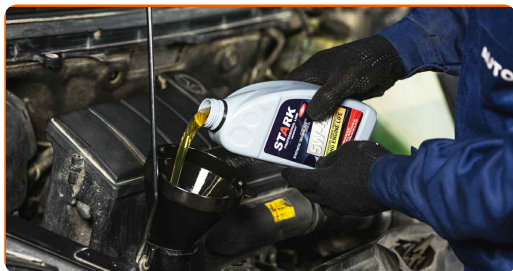
Remove the oil filler cap.

**22**

Insert the funnel.



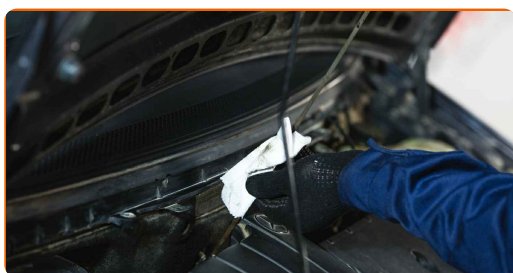
**23** Pour oil into the engine through the filler. Required amount of oil: 4.5 L.



**Replacement: engine oil and filter – Mercedes W168. Tip:**

- Use the oil recommended by the manufacturer.

**24** Check the oil level using the dipstick. Top up oil if necessary.

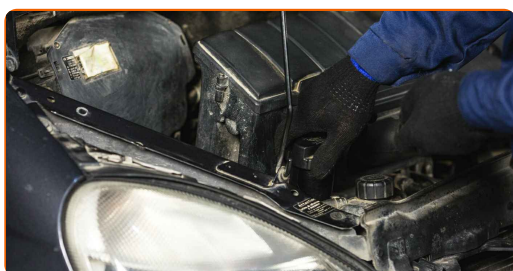


**Please note!**

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

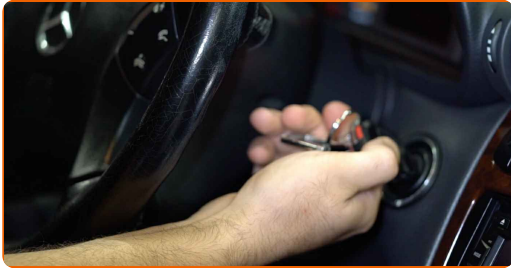
**25** Install the oil filler cap.

**26** Tighten the oil filler cap.



**27**

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



**28**

Check the oil level 5 minutes after the stop of the engine operation using a dipstick and add oil if necessary.

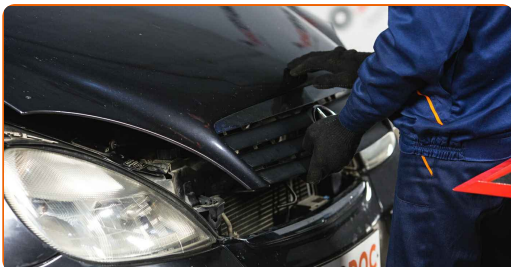


**Please note!**

- The oil level should be between the Min and Max marks.
- Make sure that the oil filler cap is properly tightened.
- Check the threaded plug of the drainage hole and the oil filter seal for tightness. If necessary, carefully tighten them up.

**29**

Remove the fender protection cover. Close the hood.



Replacement: engine oil and filter – Mercedes W168. AUTODOC experts recommend:

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

**WELL DONE!** 

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