



How to change engine oil  
and filter on **BMW 5**  
**Touring (E34)** –  
replacement guide

### SIMILAR VIDEO TUTORIAL



This video shows the replacement procedure of a similar car part on another vehicle

#### **Important!**

This replacement procedure can be used for:  
 BMW 5 Touring (E34) 518g 1.8, BMW 5 Touring (E34) 518i 1.8

The steps may slightly vary depending on the car design.

This tutorial was created based on the replacement procedure for a similar car part on: BMW 3 Saloon (E46) 318i 1.9

REPLACEMENT: ENGINE OIL AND FILTER – BMW 5 TOURING (E34). TOOLS YOU NEED:



- All-purpose cleaning spray
- Drive socket # 17
- Oil filter cup socket 86/16 F
- Ratchet wrench
- Torque wrench
- Flat Screwdriver
- Phillips screwdriver
- Oil drain pan
- Funnel
- Fender cover

**Buy tools**

Replacement: engine oil and filter – BMW 5 Touring (E34). AUTODOC experts recommend:

- 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 – BMW 5 Touring (E34) – should be done with the engine switched off.

## 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 – BMW 5 Touring (E34). Tip:

- The vehicle must be on even keel, and if it is at an angle, the drain plug must be at the lowest point.

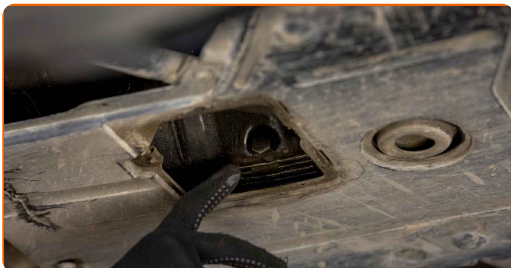
- 2 Undo the fasteners of the oil pan lower cover. Use a Phillips screwdriver.



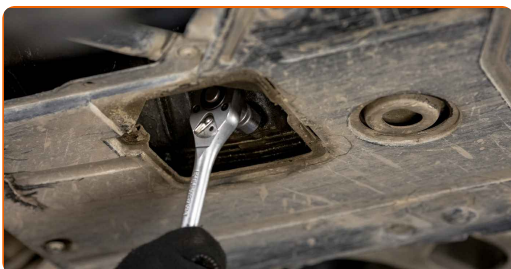
- 3 Remove the oil pan cover.

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

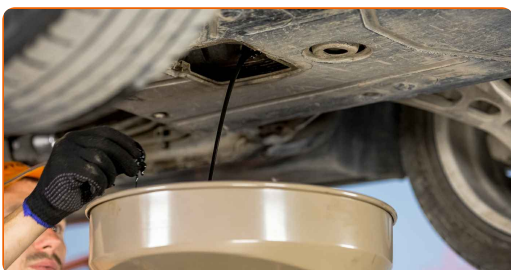
**5** Clean the area of the oil pan drainage hole. Use all-purpose cleaning spray.



**6** Unscrew the drain plug. Use a drive socket #17. Use a ratchet wrench.



**7** Drain the used oil.

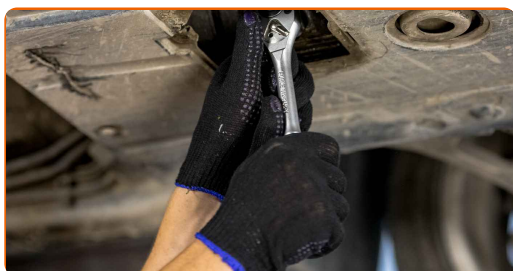


**Replacement: engine oil and filter – BMW 5 Touring (E34). Tip from AUTODOC:**

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

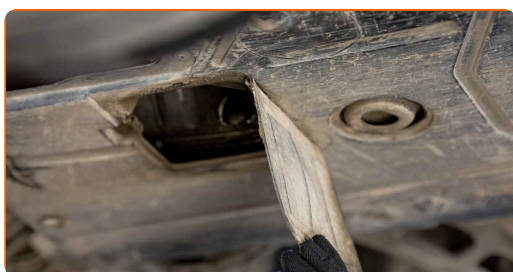
**8** Clean the area of the oil pan drainage hole.

- 9 Screw in the new drainage plug and tighten it. Use a drive socket #17. Use a torque wrench. Tighten it to 27 Nm torque.

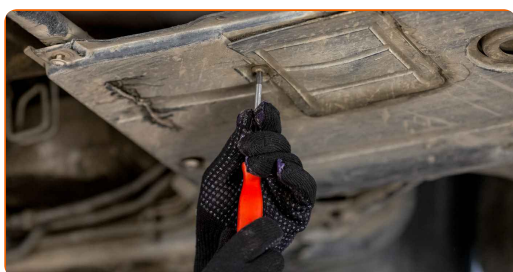


- 10 Clean the area of the oil pan drainage hole. Use all-purpose cleaning spray.

- 11 Reinstall the oil pan lower cover.



- 12 Tighten the fasteners of the oil pan lower cover. Use a Phillips screwdriver.



- 13 Lower the car.

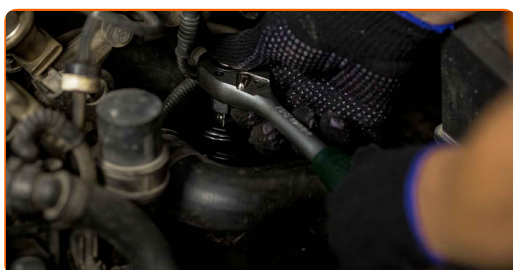
- 14 Open the hood.

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

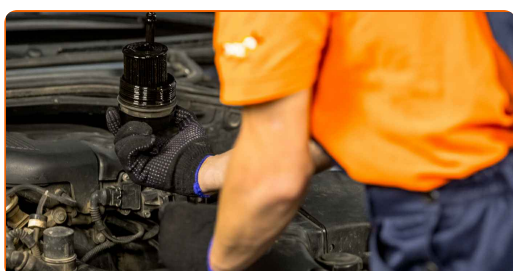
**16** Unscrew the oil filler plug.



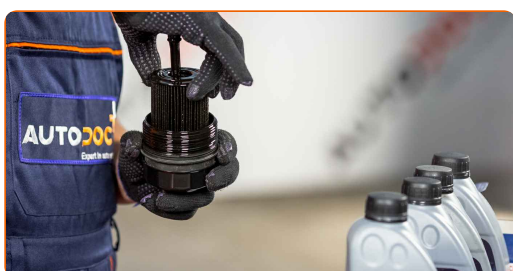
**17** Unscrew the oil filter. Use the 86/16 F socket. Use a ratchet wrench.



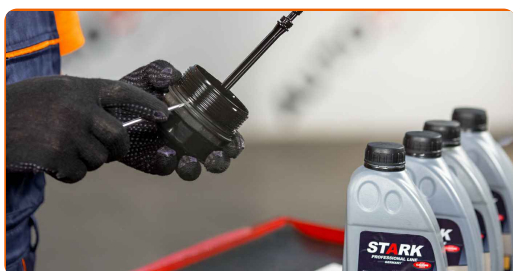
**18** Put the old oil filter in the container.



**19** Remove the filter element from the filter housing.

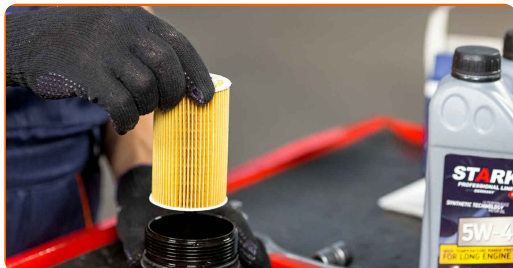


**20** Remove old o-rings from the oil filter cover. Use a flat screwdriver.



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

**22** Install new O-rings and a new oil filter to their mounting seats on the filter cover. Use a flat screwdriver.

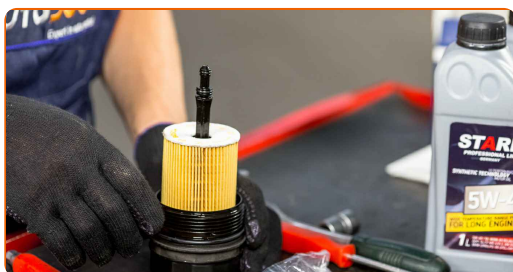


**Please note!**

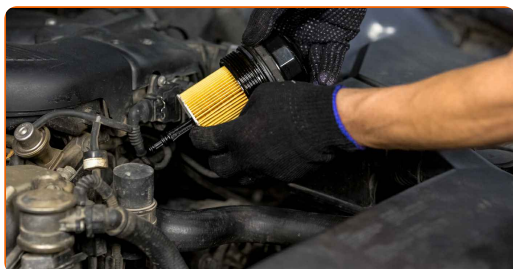
- Make sure to install the filter correctly. Don't mix up the sides of the part.

**23** Clean the oil filter seat.

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



**25** Screw the new filter into its place. Use the 86/16 F socket. Use a torque wrench. Tighten it to 23 Nm torque.





**26** Remove the oil filler cap.



**27** Insert the funnel.

**28** Pour new oil into the engine in the amount recommended by the car manufacturer.



Replacement: engine oil and filter – BMW 5 Touring (E34). Professionals recommend:

- Use the oil recommended by the manufacturer.

**29** 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.

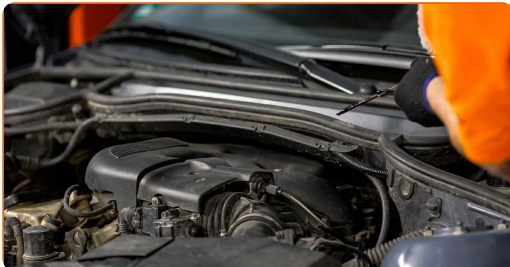
**30** Install the oil filler cap.



**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.

**33** 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.

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Remove the fender protection cover. Close the hood.

Replacement: engine oil and filter – BMW 5 Touring (E34). 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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