



How to change engine oil
and filter on **Mercedes**
ML W163 – replacement
guide

VIDEO TUTORIAL



 Important!

This replacement procedure can be used for:

MERCEDES-BENZ SPRINTER 3,5-t Platform/Chassis (906) 313 CDI 2.2 4x4 (906.131, 906.133, 906.135), MERCEDES-BENZ C-Class T-modell (S203) C 220 CDI (203.208), MERCEDES-BENZ E-Class T-modell (S210) E 270 T CDI, MERCEDES-BENZ E-Class Saloon (W210) E 270 CDI (210.016), MERCEDES-BENZ C-Class Saloon (W204) C 200 CDI (204.001), MERCEDES-BENZ C-Class Saloon (W202) C 220 CDI (202.133), MERCEDES-BENZ C-Class T-modell (S202) C 220 T CDI (202.193), MERCEDES-BENZ C-Class T-modell (S204) C 200 CDI (204.201), MERCEDES-BENZ E-Class Saloon (W210) E 220 CDI (210.006), MERCEDES-BENZ E-Class T-modell (S210) E 220 T CDI (210.206), MERCEDES-BENZ E-Class Saloon (W210) E 200 CDI (210.007), MERCEDES-BENZ C-Class Saloon (W202) C 200 CDI (202.134), MERCEDES-BENZ C-Class T-modell (S202) C 200 T CDI (202.194), MERCEDES-BENZ E-Class T-modell (S211) E 220 T CDI, MERCEDES-BENZ E-Class Saloon (W211) E 220 CDI, (+ 161)

The steps may slightly vary depending on the car design.

REPLACEMENT: ENGINE OIL AND FILTER – MERCEDES ML W163. LIST OF THE TOOLS YOU'LL NEED:



- All-purpose cleaning spray
- Combination spanner #13
- Drive socket # 13
- Oil filter cup socket 76-14F
- Ratchet wrench
- Torque wrench
- Flat Screwdriver
- Oil drain pan
- Funnel
- Fender cover

BUY TOOLS

Replacement: engine oil and filter – Mercedes ML W163. AUTODOC recommends:

- Replace the oil filter every time when changing motor oil.
- Wear gloves to prevent contact with hot liquid.
- All work should be done with the engine stopped.

REPLACEMENT: ENGINE OIL AND FILTER – MERCEDES ML W163. TAKE THE FOLLOWING STEPS:

1

Open the hood.

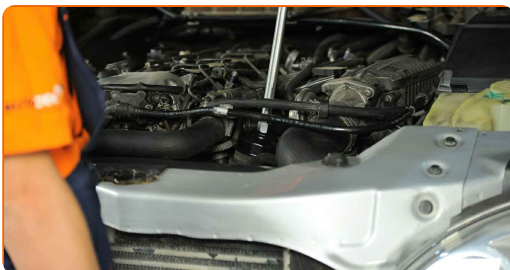


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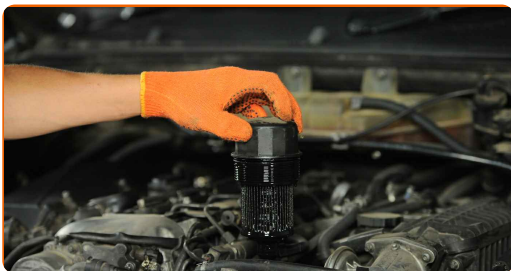
Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.

3

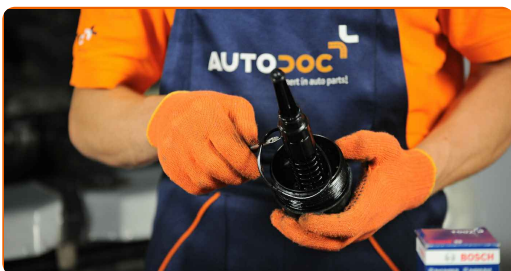
Loosen the oil filter. Use the 76-14F socket. Use a ratchet wrench.



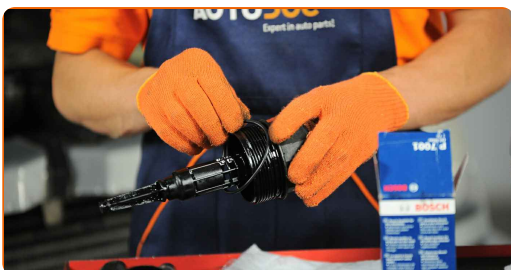
4 Unscrew the filter housing cap together with the old filter element.



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



6 Install new O-rings (3 pieces) and a new oil filter to their mounting seats on the filter cover.

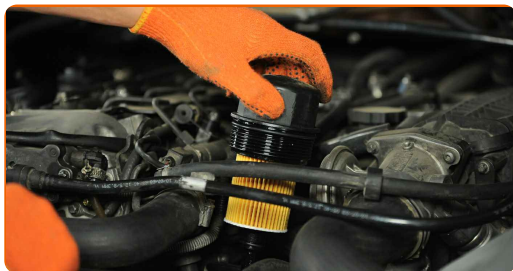


Please note!

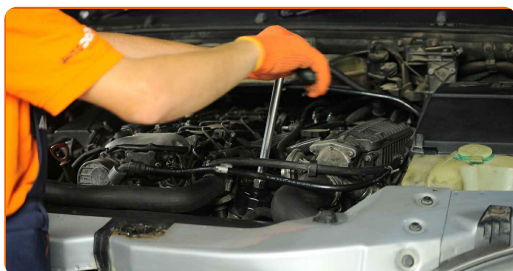
- Make sure to install the filter correctly. Don't mix up the sides of the part.

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

8 Screw the new filter into its place.



9 Screw the cap. Use the 76-14F socket. Use a torque wrench. Tighten it to 25 Nm torque.



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

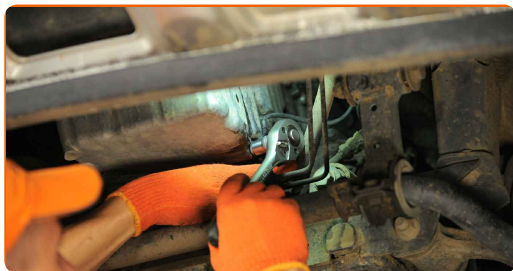


Replacement: engine oil and filter – Mercedes ML W163. AUTODOC experts recommend:

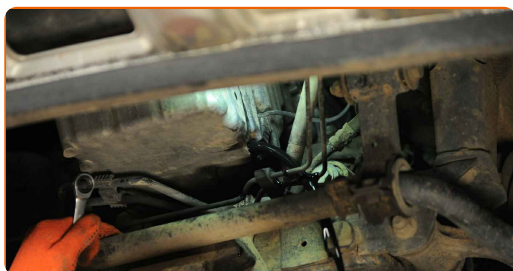
- The vehicle must be on even keel, and if it is at an angle, the drain plug must be at the lowest point.
- All work should be done with the engine stopped.

11 Put a waste oil container with at least 8 l capacity under the drainage hole.

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



13 Drain the used oil.

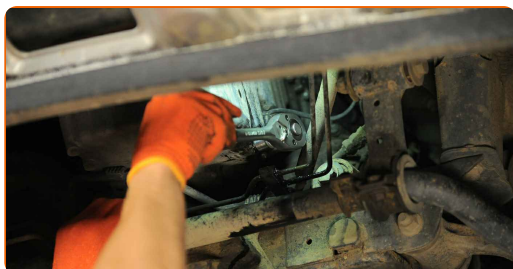


Replacement: engine oil and filter – Mercedes ML W163. Tip:

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

14 Clean the area of the oil pan drainage hole.

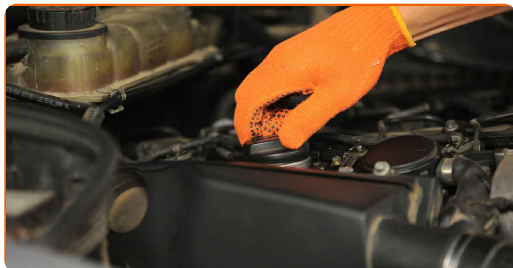
15 Screw in the new drainage plug and tighten it. Use a combination spanner #13. Use a drive socket #13. Use a torque wrench. Tighten it to 25 Nm torque.



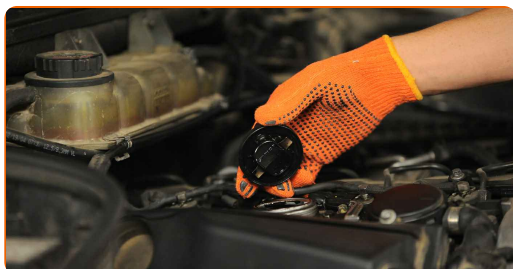
16 Clean the area of the oil pan drainage hole. Use all-purpose cleaning spray.

17 Lower the car.

18 Unscrew the oil filler plug.

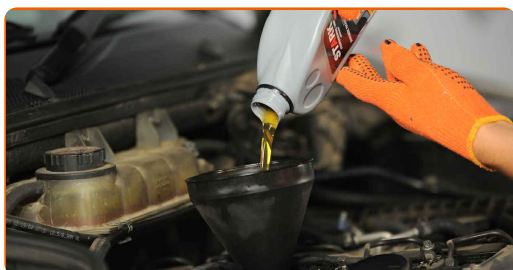


19 Remove the oil filler cap.



20 Insert the funnel.

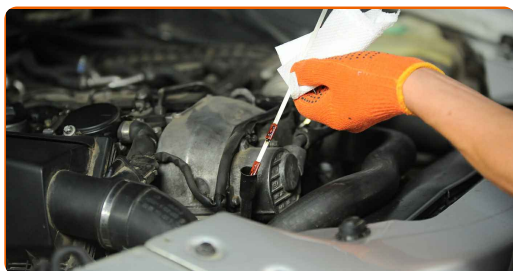
21 Pour oil into the engine through the filler. Required amount of oil: 7.5 L.



Replacement: engine oil and filter – Mercedes ML W163. Tip from AUTODOC:

- Use the oil recommended by the manufacturer.

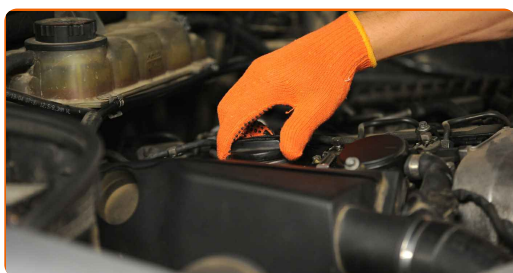
22 Check the oil level using the dipstick. Top up oil if necessary.



Please note!

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

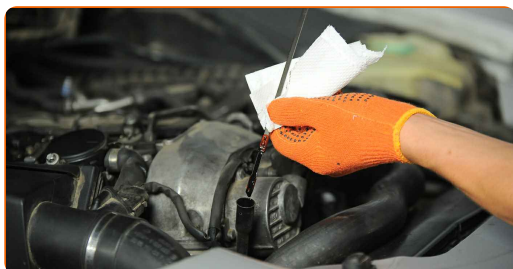
23 Install the oil filler cap.



24 Tighten the oil filler cap.

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

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



Replacement: engine oil and filter – Mercedes ML W163. Professionals recommend:

- 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.

27

Remove the fender protection cover.

28

Close the hood.



Replacement: engine oil and filter – Mercedes ML W163. 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.
- To protect the environment from pollution, be sure to dispose of the used filters at special collection points.

WELL DONE! 

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