

Gearbox fluid, replacing

Warning! Avoid skin contact with the gearbox fluid.

Note! Use only gearbox oil, Volvo P/N 116 1540-8 (1 litre container), 116 1640-6 (4 litre container).

Conditions

The oil should be replaced only in the two following instances:

Where diagnostic trouble codes (DTCs) TCM 0042 and TCM 0046 are stored, in which case the diagnostic function activates the warning lamp in the following circumstances.

The gearbox control module (TCM) receives data about the operating temperature of the gearbox fluid while the car is being driven. TCM 0042 is stored after an accumulated amount of time.

Diagnostic trouble code (DTC) TCM 0046 is stored if the gearbox fluid temperature exceeds 150° C for more than two minutes.

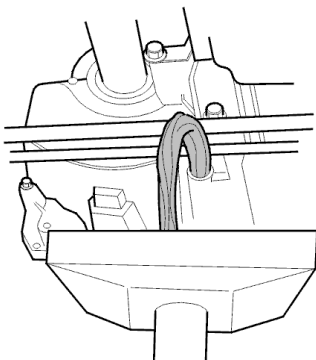
In cars used in continuous taxi service or used for towing a trailer or caravan for most of its mileage, the oil must be replaced at a service interval of 75, 000 km $\pm$ 5000 km. This is to conform to the regular service program.

Warning! The oil may be very hot if the car has just been driven. Avoid skin contact.

Draining

Remove:

- the splash guard under the engine
- the oil plug. Drain the gearbox oil.

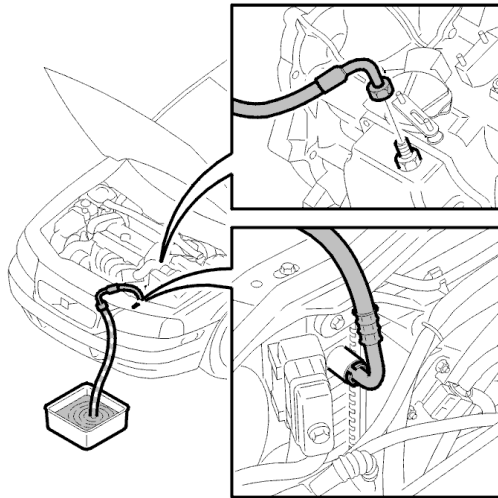


Installing the oil plug

Use a new gasket.

Tighten the plug. Tighten to **40 Nm**.

Install the protective cover.



Draining oil

Remove the return hose on the control system cover.

Install a plastic plug in the connection on the cover.

Detach the return hose in the cooler. Align the hose upwards and reconnect it to the cooler.

Install a transparent plastic hose on the oil return hose connection.

Place a container beneath the hose to catch the oil.

Refilling

Apply the handbrake. Move the gear selector lever to position P.

Fill with approximately 2 litres of oil.

Start the engine. Allow the engine to idle.

Turn the engine off when air bubbles start to become visible in the hose.

Fill with approximately 2 litres of oil.

Start the engine again and let it idle.

Turn the engine off when air bubbles start to become visible in the hose.

Remove the hose from the oil cooler hose.

Detach it from the connection to the cooler.

Install the hose in the normal position on the cooler and the gearbox.

Further filling

Fill with approximately 2 litres of oil.

Apply the handbrake.

Start the engine. Allow the engine to idle. Move the gear selector through all the gear positions.

Wait 4–5 seconds in each gear.

Checking the oil level

See [Oil level, checking](#) .

The capacity of the gearbox is 7.1 ± 0.25 litres. (MAX, MIN).

Note! After replacing the gearbox oil, the “Gearbox oil change” counter must be reset. See [Resetting Gearbox fluid change counter](#) .