

1. Engine oil level

Check the engine oil level before starting the engine (cold and warm). With the oil dipstick with a clean rag (do not re-use oil dipstick). The oil level should be between the two marks on the dipstick, never below the lower mark.

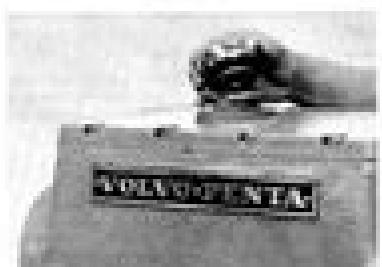
The fuel injection pump and the turbocharger are lubricated automatically from the engine lubricating system. The fuel meter pump and auxiliary pump are lubricated during manufacture and the further lubrication is necessary.

Engine oil

Quality: 5W (API, SAE 5W, GMW 21)

For viscosity at various ambient air temperatures, see "Technical Data".

Engine	Oil capacity, approx. litres with oil filter (1) and engine oil indicator (2)	Oil capacity, approx. litres with oil filter (1) and engine oil indicator (2)
TD20/20C	10	10
TD20/20C Turbojet	10 (10.5/11.0)	10 (10.5/11.0)
TD20/20T	10 (10.5)	10 (10.5)



Filling cap, auxiliary

2. Engine coolant level

Check coolant level daily before starting.

Note: Remove the cap carefully when the engine is hot, until a cold engine the level should be approx. 5 cm (2") below the sealing surface of the filler cap to enable the coolant to expand when the engine gets hot.

See pages 4-8 regarding composition of coolant.

When refilling use antifreeze to open the cooling system or that has an optimum freeze. See "Filling with coolant" on page 4. Close the cocklecks after filling.

When there is a risk of freezing the coolant must be drained in and freeze should be added, see "Precautions in case of freezing" on page 4.



The separator filter (optional equipment) should be checked and cleaned when necessary. For cleaning, see page 10. The frequency depends on the experience after a period of driving, depending on the amount of dust in the water.

MAINTENANCE

3. Reverse gear oil level

Check the oil level with the dipstick daily. Two oil cans are often needed to the upper mark on the dipstick.

The dipstick is removed with the engine running at idling speed and with the lever in the "Neutral" position.

Oil grade: The same as for the engine. Gear lubrication of oil quality (2) according to the API system is permitted in the reverse gear (2).

Quantity: The same as for the engine. However, for the Volvo 120 reverse gear only single grade of gear viscosity (number 1) is required.

Oil capacity: see "Technical Data".



4. Disengagable clutch

Isolation gear, disengagable clutch - normal wear
level

Check the oil level every 5000 km.

The isolation gear at the front of the engine is filled with a fixed plug (1). Unscrew the plug and check that the oil is level with the mark. (Concerning of grade and viscosity, see "Technical Data".)

Lubricating, disengagable clutch

Note! Note! Note! Lubricate the housing and bearing (inside 2). Use universal grease. Note! Lubricate sparingly. Three types of grease might find its way into the clutch housing and cause slipping. Unseal the outer bearing (inside 3). The grease inside has been deleted from some models with reduction gear. Use frost-resistant grease of a number 1 or 2 type.



1. Lever plug 2, 3. Gear housing
Disengagable clutch

5. Checking the batteries

Check the level in the batteries at least after every 5000 km of operation. The level should be correct. If it is 8-10% above the cell plates, top up with distilled water or deionized water making sure that the batteries terminals are firmly tightened and greased.

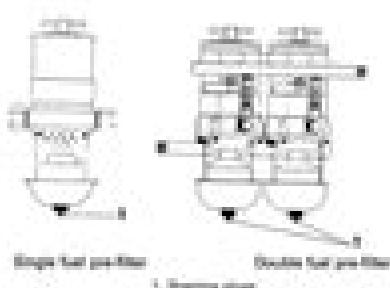
Check the position of the battery charge with a battery meter. If the voltage is low:

The density of the electrolyte should be 1.28. If it has decreased to 1.20 the battery should be recharged. If need charging it is to be carried out, the battery cables (both + and -) must first be disconnected.

Warning!

The batteries contain sulphuric acid, which is an highly explosive gas. One spark might be enough for the battery to explode and cause personal injury and material damage.

Check the fuel filter and clean off any water every 5000 km for reasons of the drawing plug (1). The checks should not be carried out until the engine has been shut down for several hours and with the engine stopped. Fit the plug.



1. Drawing plug
Single fuel pre-filter
2. Drawing plug
Double fuel pre-filter

Volvo Penta 57 Service Manual

J Elliott

Volvo Penta 57 Service Manual:

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