

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.

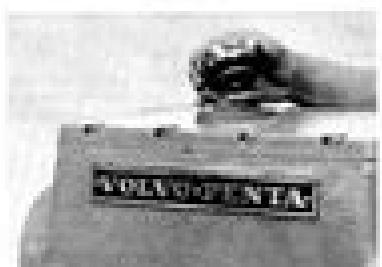
The fresh water pump and seawater pump are lubricated during manufacture and the further lubrication is necessary.

Engine oil

Quality: 5W-40 API, SN/CF, ACEA A5

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)
TDI 1.6 TC	5.0	5.0
TDI 2.0 TC	5.0 (5.6/5.8)	5.0/5.8
TDi 1.6/1.8	5.0	5.0/5.8



Filling cap, oil filter

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 identical form. 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 cold weather should be added, see "Precautions in case of freezing" on page 4.



Single filter
(1) Cap
(2) Mounting with vent

The **seawater filter** (optional equipment) should be checked and cleaned when necessary. For cleaning, see page 16. The frequency depends on the experience after a period of running, depending on the amount of salt 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 (5) according to the API system is permitted in the reverse gear (2).

Quantity: The same as for the engine. However, for the 500 (low reverse gear) only single grade oil (see viscosity number) is required.

Oil capacity: see "Technical Data".



4. Disengagable clutch

Isolation gear, disengagable clutch - normal wear
item

Check the oil level every 5000 hours.

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 separately. Three types grease might find its way into the clutch housing and cause slipping. Remove the outer bearing (inside 3). The grease inside has been deleted from some models with isolation gear. Use fresh moisture grease of a number 2 or type.



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

5. Checking the batteries

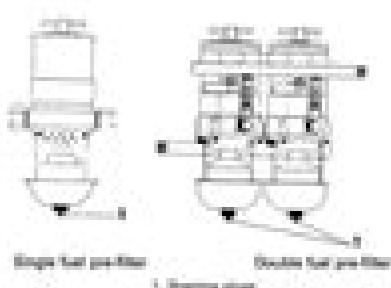
Check the level in the batteries at least after every 500 hours of operation. The level should be correct. If it is 8-10% above the cell plates. Top up with distilled water or deionized water make sure that the batteries terminals are firmly tightened and greased.

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.



1. Single filter
2. Double filter
3. Double filter pre-filter
4. Double filter pre-filter

Volvo Penta D2 20b Service Manual

Volvo Penta (Firm)

Volvo Penta D2 20b Service Manual:

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