

## 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.

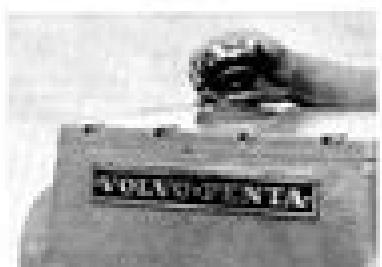
The fuel injection pump and the turbocharger are lubricated automatically from the engine lubricating system. The fuel meter pump and auxiliary pump are lubricated during manufacture and the further lubrication is necessary.

### 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)
TD2 (1.6)	1.6	1.7
TD2 (1.8)	1.8	1.9
TD2 (1.9)	1.9	2.0



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 filling up, remember to open the venting valve on the top of the coolant tank. See "Filling with coolant" on page 8. Close the coolants 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 8.



Single-stage fuel filter  
(1) Cap  
(2) Mounting with vent

The **separator 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 driving, depending on the amount of dust in the water.



Double-stage fuel filter  
(1) Venting plug

## 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 oil can be checked out 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 of gear viscosity number) 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. (Consuming of gear 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 of grease might find its way into the clutch housing and cause damage. Unseal the outer bearing (inside 2). The grease inside has been deleted from some models with isolation gear. Use gear grease of a number of type.



1. Lever plug  
2, 3. Gear (gear)  
Disengagable clutch

## 5. Checking the batteries

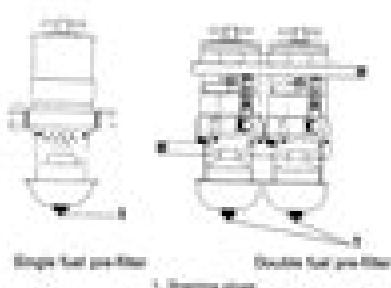
Check the level in the batteries at least after every 5000 km of operation. The level should be correct. If it is 8-10% above the cell plates. Top up with distilled water or deionized water make sure that the batteries terminals are firmly tightened and greased.

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.



Single fuel filter  
(1) Venting plug  
(2) Mounting

# Volvo Penta D2 20b Service Manual

**Volvo Penta (Firm)**

## **Volvo Penta D2 20b Service Manual:**

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**Seloc's Volvo Penta Stern Drive** Joan Coles,Clarence W. Coles,1984      **Service Manual, 2001, 2002, 2003** Volvo Penta (Firm),1984      **Volvo-Penta Stern Drives, 1992-93** Joan Coles,Clarence W. Coles,1998-03 SELOC Marine maintenance and repair manuals offer the most comprehensive authoritative information available for outboard inboard stern drive and diesel engines as well as personal watercraft SELOC has been the leading source of how to information for the marine industry since 1974 Designed and written to serve the needs of the professional mechanic do it yourself boat enthusiast instructor and student these manuals are based on actual teardowns done by Chilton Marine s editors authors in our on site facility Providing complete coverage on everything from basic maintenance to engine overhaul every manual features Simple to follow step by step illustrated procedures Hundreds of exploded drawings photographs and tables Troubleshooting sections accurate specifications and wiring diagrams Recognized and used by technical trade schools as well as the U S military Covers all Single SP and Duo Prop DP models powered by Volvo 4 cylinder engines Over 750 illustrations

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Volvo Penta Stern Drive Shop Manual 2001-2004 Penton Staff,2000-05-24 30GS 3 0L in line 4 cylinder 135 HP 43GL 4 3L V 6 160 HP 43GI 4 3L V 6 180 HP 43GXI 4 3L V 6 210 HP 50GL 5 0L V 8 220 HP 50GI 5 0L V 8 250 HP 50GXI 5 0L V 8 270 HP 57GS 5 7L V 8 225 HP 57GS 5 7L V 8 250 HP 57GSI 5 7L V 8 280 H      **Volvo Penta Stern Drives, 1992-03 Repair Manual** Kevin M. G. Maher,1998      **Workshop Manual** ,1984      **Workshop Manual** Volvo Penta (Firm),1970

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