

CHECKS AND SERVICE

1. Engine oil level

Check the engine oil daily before starting the engine (stop engine). Wipe the oil dipstick with a clean rag (do not use cotton waste). 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.

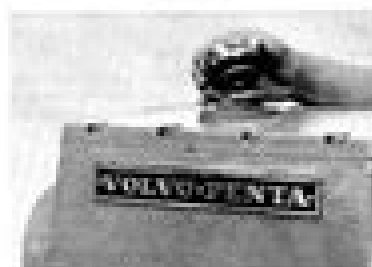
The fresh-water pump and seawater pump are lubricated during manufacture and no further lubrication is necessary.

Engine oil

Quality: CE (API), SAE 100, CCMC 04

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

Engine	Oil capacity, approx. three day cycle/120 gal./1 with engine instruction	Oil
TAD1100C TAD1110C TAD1120C	50 (17.5/13.5)	50 (SAE 10)
TAD1140C	54 (14.5)	54 (SAE 10)



Filling cap, coolant

2. Engine coolant level

Check coolant level daily before starting.

Warning: Remove the cap carefully when the engine is hot. With a cold engine the level should be approx. 5 mm (3/16") below the sealing surface of the filler cap to enable the coolant to expand when the engine gets hot.

See pages 4-5 regarding composition of coolant.

When topping up, remember to open the venting valve as shown on picture form. (See "Filling with coolant" on page 5. Close the vent valve after filling.

When there is a risk of freezing the system must be drained or anti freeze should be added, see "Precautions in case of freezing" on page 5.



Venting valve,
TAD1100C

Venting valve,
TAD1100C

Venting valve,
TAD1120C



Seawater filter

1. Cover
2. Housing with strainer

The seawater filter (optional equipment) should be checked and cleaned when necessary. For cleaning see page 16. The frequency depends on the experience obtained after a period of running, depending on the amount of dirt in the water.

MAINTENANCE

3. Reverse gear oil level

Check the oil level with the dipstick daily. Top up with oil when needed to the upper mark on the dipstick.

This check is carried out with the engine running at idling speed and with the lever in the "Neutral" position.

Oil grade: The same as for the engine. When lubricating oil of quality CE according to the API system is provided in the reverse gear.

Viscosity: The same as for the engine. However, for the TAD1100 reverse gear only single grade oil (one viscosity number) is required.

Oil capacity: see "Technical Data".



4. Disengageable clutch

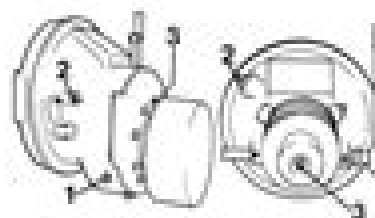
Reduction gear, disengageable clutch - optional extra item

Check the oil level every 500 hours.

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

Lubricating, disengageable clutch

Every 500 hours: Lubricate the throw-out bearing (picture 2). Use universal grease. Note! Lubricate springs. Excessive grease might find its way onto the clutch fingers and cause slipping. Grease the inner bearing (picture 3). This grease nipple has been deleted from some clutches with reduction gear. Use food resistant grease of a multipurpose type.



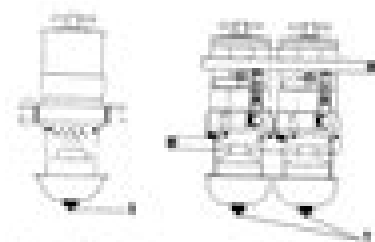
1. Level plug 2, 3. Grease nipples

Disengageable clutch

6. Fuel pre-filter

(optional equipment)

Check the fuel filter and drain off any water every 500 hours by means of the draining plug (1). The check should not be carried out until the engine has been shut down for several hours and with the engine stopped. Fit the plug.



Single fuel pre-filter

Double fuel pre-filter

1. Draining plug

5. Checking the batteries

Check the level in the batteries at least after every 500 hours of operation. The level should be approx. 10 mm (3/8") above the cell plates. Top up with distilled water if necessary. Also make sure that the battery terminals are firmly tightened and greased.

Check the condition of the battery charge with a battery tester if the voltage is low.

The density of the electrolyte should be 1.26. If it has decreased to 1.22 the batteries should be re-charged. If re-charging fails to be carried out, the battery cables (both + and -) must first be disconnected.

Warning!

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

Volvo Penta Gasoline Service Manual

Y Pai



Volvo Penta Gasoline Service Manual:

Volvo Penta (Seloc) Seloc,2008 This manual covers the topics that a factory service manual designed for factory trained mechanics and a manufacturer owner s manual designed more by lawyers than boat owners these days covers It will take you through the basics of maintaining and repairing your motor step by step to help you understand what the factory trained mechanics already know by heart Page 1 2 **Volvo Penta Stern Drives, 1992-03 Repair Manual** Kevin M. G.

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web if a solute is soluble in a solvent the overall process is said to be spontaneous if a solute does not dissolve in a solvent insoluble the solution process is said to be non spontaneous a spontaneous process or change proceeds in a given direction without needing to be driven by an external energy input

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web solubility and solubility product mh 5 16 1 16 2 in this section we are going to consider the solubility of ionic solids in water solubility may be considered to be an equilibrium the equilibrium is between solid and ions in solution any ionic solid is 100% ionized in aqueous solution once it actually dissolves

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web information solubility rules a solute is considered soluble if an appreciable amount of it can be dissolved in a given amount of the solvent for example both table salt NaCl and table sugar $\text{C}_{12}\text{H}_{22}\text{O}_{11}$ are soluble substances in water a solute is considered insoluble if very little of it dissolves in a given amount of the solvent

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web predict what might happen to the solubility of the insoluble salt if a 1.0 M acid solution was added drop wise to the beaker hint which ion species in the beaker will react with the acid how will this reaction alter the concentration of the common ion