

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.

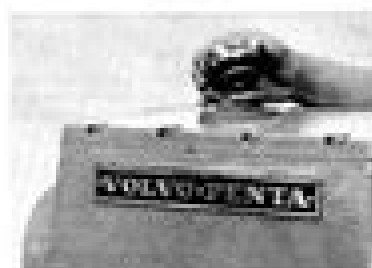
The fresh-water pump and seawater pump are lubricated during manufacture and no further lubrication is necessary.

Engine oil

Quality: CE (API), SAE10W, 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	
	8"	10"
TMD100C TMD121C TMD140C	55 (175.8 US B)	55 (164.7 B)
TMD140C	54 (163.8)	54 (163.8)



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 cock/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,
TMD100C

Venting valve,
TMD100C

Venting valve,
TMD121C



Seawater filter

1. Cover
2. Housing with strainer

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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 TMD the 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 hour.

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 hour: 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 heat resistant grease of a multipurpose type.



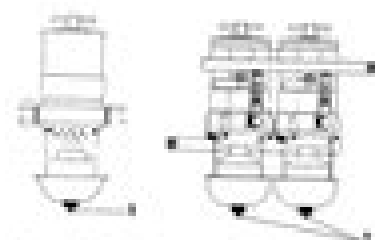
1. Level plug 2, 3. Grease nipples

Disengageable clutch

6. Fuel pre-filter

(optional equipment)

Check the fuel filter and drain off any water every 500 hour 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 hour 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-charge is 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.

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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

Workshop Manual Volvo Penta (Firm), 1970 **Workshop Manual**, 1985 Pub no 77300424 Seloc's Volvo Penta Stern Drive Joan Coles, Clarence Coles, 1989

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