

## 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 dry rag (do not use cotton swabs). 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.

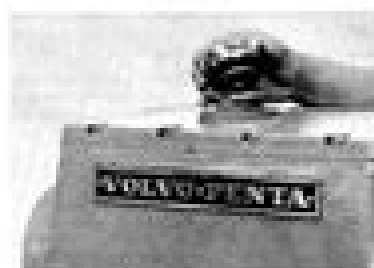
The fresh-water pump and seawater pump are lubricated during manufacture and no further lubrication is necessary.

Engine oil

Quality: CE (API), SAE, CCMC 04

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

Engine	Oil capacity, approx. liter (imp. gal./US gal.) with engine induction	1"	3/4"
TAD530C TAD535C TAD535C	32 (7.5/13.2)	32 (8.4/13.2)	
TAD535C	32 (7.5/13.2)	32 (8.4/13.2)	



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 at the top or at periodic form. See "Filling with coolant" on page 5. Close the vent/cap 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.



Filling cap, coolant  
TAD530C

Filling cap, coolant  
TAD535C

Filling cap, coolant  
TAD535C



Seawater filter

1. Cap
2. Housing with element

The seawater filter (optional equip.) 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.

The 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 permitted in the reverse gear.

**Viscosity:** The same as for the engine. However, for the TAD5 the reverse gear only single grade oil (one viscosity number) is required.

Oil viscosity, see "Technical Data".



### 4. Disengageable clutch

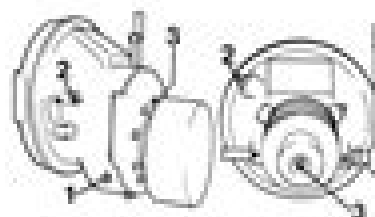
Induction gear, disengageable clutch - optional equip. item

Check the oil level every 500 hours.

The induction gear at the front of the engine is fitted with a lead 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 (triple 2). Use universal grease. Note! Lubricate springs. Excessive grease might find its way onto the clutch (finger and loose slipping). Grease the inner bearing (triple 3). This grease nipple has been deleted from some models with induction gear. Use food resistant grease of a multipurpose type.

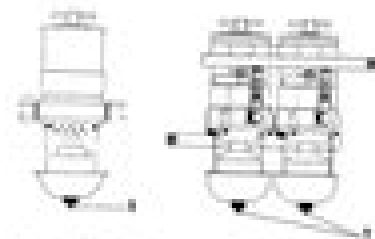


1. Lead plug 2, 3. Grease nipples  
Disengageable clutch

### 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 cooled. 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.

# Original Volvo Penta B2engine Service Manual

**Volvo Penta**



## **Original Volvo Penta B2engine 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 Service and Overhaul Manual A. T. Burgess,1994 **VOLVO Penta Workshop Manual** ,1986 **VOLVO Penta Workshop Manual** ,1986 VOLVO PENTA MD5A MARINE DIESEL ENGINE Albin,2014-03-01 Volvo Penta MD2010, MD2020, MD2030, MD2040 N N,2012-05 Workshop Manual for Volvo Penta Marine Engines MD2010 MD2020 MD2030 MD2040 **Volvo Penta Service & Overhaul Manual** Alan T. Burgess,1976 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 **Workshop Manual** Volvo Penta (Firm),1970 **VOLVO PENTA MD2010, MD2020, MD2030, MD2040** Volvo Penta,2014-03-02 Service Manual for Volvo-Penta Diesel Engines Volvo Penta (Firm). Technical Publications Department,1960\* Service manual for automotive version of D67C engine fitted in L485 truck Workshop Manual Volvo Penta (Firm),1970 Operating Manual for Volvo Penta Marine Diesel Engines MD 47, MD 67, MD 96, TMD 96 Volvo Penta (Firm). Technical Information Department,1962 **VOLVO PENTA MD 5** Volvo Penta,2015-04-13 Seloc's Volvo Penta Stern Drive Joan Coles,Clarence W. Coles,1984 **Volvo Service Manual** Volvo, Aktiebolaget,1962 VOLVO PENTA MD 11C, C, MD 17C, D Volvo Penta,2014-03-01 **Volvo-Penta Stern Drives, 1968-1991** Nichols / Seloc,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

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