

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.

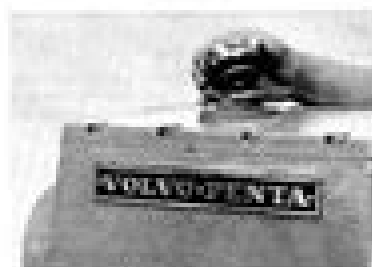
The fresh-water pump and seawater pump are lubricated during manufacture and no further lubrication is necessary.

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 lubrication	
	5"	10"
TAD1100C TAD1110C TAD1140C	55 (175.6 US B)	55 (164.7 B)
TAD1140C	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,
TAD1100C

Venting valve,
TAD1100C

Venting valve,
TAD1140C



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 TAD the reverse gear only single grade of low 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 heat resistant grease of a multipurpose type.



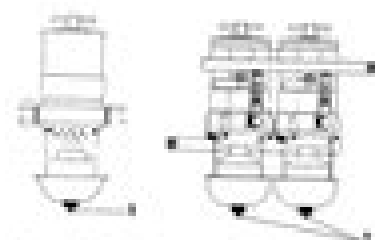
1. Level plug 2, 3. Grease nipples

Disengageable clutch

6. Fuel pre-filter

(optional equipment)

Check the fuel filter and drain off any water every 500 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.

Volvo Penta Service Manual Ad41

Volvo Penta



Volvo Penta Service Manual Ad41:

Boating ,1991-01 *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 MD 5** Volvo Penta,2015-04-13 Volvo Penta Service & Overhaul Manual Alan T. Burgess,1976 **VOLVO PENTA MD2010, MD2020, MD2030, MD2040** Volvo Penta,2014-03-02 *VOLVO PENTA MD 11C, C, MD 17C, D* Volvo Penta,2014-03-01
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Table of Contents Volvo Penta Service Manual Ad41

1. Understanding the eBook Volvo Penta Service Manual Ad41
 - The Rise of Digital Reading Volvo Penta Service Manual Ad41
 - Advantages of eBooks Over Traditional Books
2. Identifying Volvo Penta Service Manual Ad41
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Volvo Penta Service Manual Ad41
 - User-Friendly Interface
4. Exploring eBook Recommendations from Volvo Penta Service Manual Ad41
 - Personalized Recommendations

- Volvo Penta Service Manual Ad41 User Reviews and Ratings
- Volvo Penta Service Manual Ad41 and Bestseller Lists
- 5. Accessing Volvo Penta Service Manual Ad41 Free and Paid eBooks
 - Volvo Penta Service Manual Ad41 Public Domain eBooks
 - Volvo Penta Service Manual Ad41 eBook Subscription Services
 - Volvo Penta Service Manual Ad41 Budget-Friendly Options
- 6. Navigating Volvo Penta Service Manual Ad41 eBook Formats
 - ePub, PDF, MOBI, and More
 - Volvo Penta Service Manual Ad41 Compatibility with Devices
 - Volvo Penta Service Manual Ad41 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Volvo Penta Service Manual Ad41
 - Highlighting and Note-Taking Volvo Penta Service Manual Ad41
 - Interactive Elements Volvo Penta Service Manual Ad41
- 8. Staying Engaged with Volvo Penta Service Manual Ad41
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Volvo Penta Service Manual Ad41
- 9. Balancing eBooks and Physical Books Volvo Penta Service Manual Ad41
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Volvo Penta Service Manual Ad41
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Volvo Penta Service Manual Ad41
 - Setting Reading Goals Volvo Penta Service Manual Ad41
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Volvo Penta Service Manual Ad41
 - Fact-Checking eBook Content of Volvo Penta Service Manual Ad41

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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