

Design and Function

General

The engines have a pressurised lubrication system containing a full flow oil filter, an oil cooler and piston cooling.

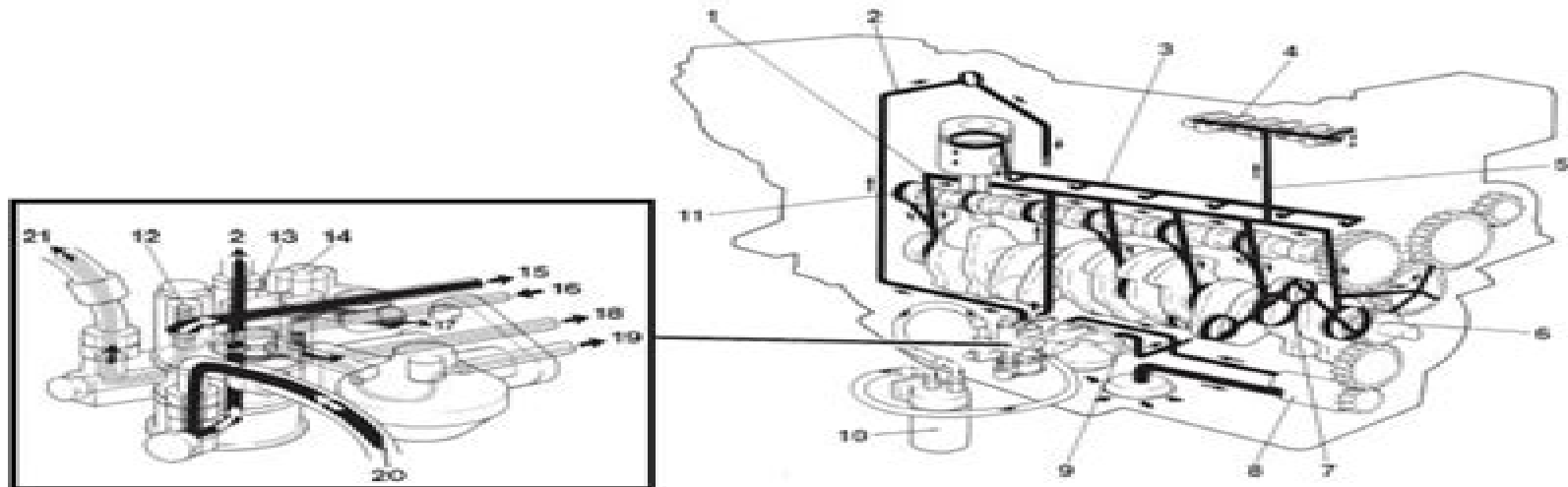
The TAMD 63 also has a by-pass oil filter for the lubrication oil. (The by-pass oil filter is an optional extra for the other engines.)

The oil pump is located at the front of the sump, and is driven by the crankshaft, via an idler wheel. The pump sucks up oil from the sump and forces it out into two oil galleries in the cylinder block, via the oil filter, to the lubrication points in the engine, via the piston cooling valve and the oil cooler to the piston cooling nozzles.

All bearings, the gudgeon pins and the bearings of the valve mechanism and gear wheel drives are connected to the pressure lubrication system. The injection pump and turbocharger are also connected to the pressure lubrication system.

The gear wheel drives are lubricated by splash from the idler wheel bearing, which is connected to the main oil gallery by drillings.

The illustration below shows the lubrication system of the TAMD 61, -62 and TAMD 71, -72.



Lubrication system, TAMD 61, -62 and TAMD 71, -72.

- | | | | |
|----|---|----|--|
| 1 | Main oil gallery (lubricating oil) | 13 | Piston cooling valve |
| 2 | Oil supply pipe to turbocharger | 14 | Reduction valve |
| 3 | Main oil system (piston cooling oil) | 15 | Filtered oil supply to lubrication system |
| 4 | Rocker mechanism | 16 | Oil supply from oil pump |
| 5 | Oil duct to rocker mechanism | 17 | Return oil to sump via reduction valve |
| 6 | Main bearing | 18 | Oil supply via piston cooling valve to oil cooler and piston cooling |
| 7 | Big end bearing | 19 | Return oil to sump (via by-pass filter if fitted) |
| 8 | Oil pump | 20 | Filtered oil returning from lubrication oil filter |
| 9 | Oil to oil cooler and piston cooling | 21 | Unfiltered oil to oil filter |
| 10 | Lubrication oil filter (full flow type) | | |
| 11 | Camshaft bearing | | |
| 12 | Pressure relief valve | | |

Volvo Penta Owners Manual

SB Merriam



Volvo Penta Owners 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 Drive: Comprehensive Guide to Maintenance and Repair Pasquale De Marco,2025-04-24 The Volvo Penta stern drive is a powerful and reliable propulsion system found in a wide range of boats from small runabouts to large cruisers With proper maintenance and care a Volvo Penta stern drive can provide years of trouble free operation However even the best maintained stern drive can experience problems from time to time This comprehensive guide is the perfect resource for boat owners who want to keep their Volvo Penta stern drive in top condition Written by a team of experienced marine mechanics this book covers everything from routine maintenance tasks to major overhauls In clear and concise language the authors explain the inner workings of a Volvo Penta stern drive and provide step by step instructions for performing a wide range of maintenance and repair tasks Whether you re a seasoned boat owner or a first time mechanic this book is a valuable resource that will help you keep your Volvo Penta stern drive running smoothly Inside you ll find Detailed instructions for performing routine maintenance tasks such as changing the oil and filters inspecting the anodes and lubricating the moving parts Troubleshooting tips for common problems such as overheating loss of power and shifting issues Step by step instructions for performing major overhauls including disassembling the drive inspecting the components and replacing worn or damaged parts Techniques for improving the performance and efficiency of your Volvo Penta stern drive Expert advice on winterizing and storing your boat With its wealth of information and easy to follow instructions *Volvo Penta Stern Drive A Comprehensive Guide to Maintenance and Repair* is the ultimate resource for boat owners who want to keep their Volvo Penta stern drive running smoothly for years to come If you like this book write a review on google books

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1. Understanding the eBook Volvo Penta Owners Manual
 - The Rise of Digital Reading Volvo Penta Owners Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Volvo Penta Owners Manual
 - 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 Owners Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Volvo Penta Owners Manual
 - Personalized Recommendations
 - Volvo Penta Owners Manual User Reviews and Ratings
 - Volvo Penta Owners Manual and Bestseller Lists
5. Accessing Volvo Penta Owners Manual Free and Paid eBooks
 - Volvo Penta Owners Manual Public Domain eBooks
 - Volvo Penta Owners Manual eBook Subscription Services
 - Volvo Penta Owners Manual Budget-Friendly Options
6. Navigating Volvo Penta Owners Manual eBook Formats

- ePub, PDF, MOBI, and More
- Volvo Penta Owners Manual Compatibility with Devices
- Volvo Penta Owners Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Volvo Penta Owners Manual
 - Highlighting and Note-Taking Volvo Penta Owners Manual
 - Interactive Elements Volvo Penta Owners Manual
- 8. Staying Engaged with Volvo Penta Owners Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Volvo Penta Owners Manual
- 9. Balancing eBooks and Physical Books Volvo Penta Owners Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Volvo Penta Owners Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Volvo Penta Owners Manual
 - Setting Reading Goals Volvo Penta Owners Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Volvo Penta Owners Manual
 - Fact-Checking eBook Content of Volvo Penta Owners Manual
 - 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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