

# VOLVO PENTA INDUSTRIAL DIESEL TAD720VE

124 kW (167 hp) crankshaft power acc. to ISO 3046

The TAD720VE is a powerful, reliable and economical Mercedes Diesel Engine.

## Durability & low noise

Designed for easiest, fastest and most economical installation. Well-balanced to produce smooth and vibration-free operation with low noise level.

To maintain a controlled working temperature in cylinders and combustion chambers, the engine is equipped with piston cooling.

## Low exhaust emissions

The state of the art, high-tech injection and charging system with low internal losses contributes to excellent combustion and low fuel consumption. The TAD720VE complies with EU Stage 2, EPA/CARB Tier 2 exhaust emission regulations.

## Easy service & maintenance

Modern injection system, integrated oil cooler and all service points located on one side provides best possible access in an installation. Replaceable cylinder liners, valve guides and valve seats gives lower service and repair costs for the customer. Quality Volvo Penta support is available in more than 100 countries all over the world.

## Technical description:

### Engine and block

- Optimized cast iron cylinder block with optimum distribution of forces
- Piston cooling for low piston temperature and reduced ring temperatures
- Deep forged steel connecting rods
- Crankshaft hardened bearing surfaces and liners for maximum load on main and big-end bearings
- Ringland trap compression rings for long service life
- Replaceable valve guides and valve seats
- Three PTO positions at flywheel end
- Lub system
- Pipehead housing with connection acc. to SAE 2
- Flywheel for flexible coupling and friction clutch
- Transport brackets
- Pulley for AC compressor

### Lubrication system

- Full flow disposable spin-on oil filter, for easy high filtration



## Features

- Compact design
- High power to weight ratio
- Emission compliant EU Stage 2, EPA/CARB Tier 2
- Proven optimized engine design
- A wide selection of optional equipment and power settings
- Mechanical or electronic governing with CAN-bus communication

- Rotary displacement oil pump driven by the crankshaft
- Deep center oil sump, 30° inclination
- Oil filter on valve cover
- Oil dipstick, right side, front
- Full flow integrated oil cooler, side-mounted

### Fuel system

- Six hole fuel injection nozzles
- Direct injection unit, pump
- Mechanical or electronic governor with sensus limiter function
- Washable fuel prefilter with water separator
- Belt driven rotary low pressure fuel pump
- Fine fuel filter of disposable type
- Stop solenoid, electrically operated, 24 V

### Intake and exhaust system

- Connection flange for exhaust line
- Turbo charger, control line with exhaust flange
- Closed crankcase ventilation
- Heater flange in charge air inlet without power relay

### Cooling system

- Belt driven, maintenance-free coolant pump with high degree of efficiency
- Exhaust cooling with accurate coolant control through a water distribution duct in the cylinder block. Reliable disconnected with minimum pressure drop
- Cooling water pipe, inlet and outlet
- Fan belt
- Fan on separate bracket 200mm above crankshaft
- Quicker fan Ø2600mm

### Electrical system

- 24V electrical system
- Alternator 165A, 1 2-HP, low belt
- Starter motor, Mexico, 5.5-6kW/24 V, single pole
- SWCU (optional high altitude sensor) control and monitoring of oil pressure, coolant temp, coolant level, charge oil pressure, engine rpm and fuel compensation
- Engine wiring

**VOLVO  
PENTA**

# Volvo Penta Tad 103ge Guide

**CH Cherryholmes**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the CH Cherryholmes text.

## **Volvo Penta Tad 103ge Guide:**

This book delves into Volvo Penta Tad 103ge Guide. Volvo Penta Tad 103ge Guide is a vital topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Volvo Penta Tad 103ge Guide, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Volvo Penta Tad 103ge Guide
- Chapter 2: Essential Elements of Volvo Penta Tad 103ge Guide
- Chapter 3: Volvo Penta Tad 103ge Guide in Everyday Life
- Chapter 4: Volvo Penta Tad 103ge Guide in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Volvo Penta Tad 103ge Guide. The first chapter will explore what Volvo Penta Tad 103ge Guide is, why Volvo Penta Tad 103ge Guide is vital, and how to effectively learn about Volvo Penta Tad 103ge Guide.
3. In chapter 2, this book will delve into the foundational concepts of Volvo Penta Tad 103ge Guide. The second chapter will elucidate the essential principles that must be understood to grasp Volvo Penta Tad 103ge Guide in its entirety.
4. In chapter 3, this book will examine the practical applications of Volvo Penta Tad 103ge Guide in daily life. This chapter will showcase real-world examples of how Volvo Penta Tad 103ge Guide can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Volvo Penta Tad 103ge Guide in specific contexts. The fourth chapter will explore how Volvo Penta Tad 103ge Guide is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Volvo Penta Tad 103ge Guide. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Volvo Penta Tad 103ge Guide.

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## **Table of Contents Volvo Penta Tad 103ge Guide**

1. Understanding the eBook Volvo Penta Tad 103ge Guide
  - The Rise of Digital Reading Volvo Penta Tad 103ge Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Volvo Penta Tad 103ge Guide
  - 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 Tad 103ge Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Volvo Penta Tad 103ge Guide
  - Personalized Recommendations
  - Volvo Penta Tad 103ge Guide User Reviews and Ratings
  - Volvo Penta Tad 103ge Guide and Bestseller Lists
5. Accessing Volvo Penta Tad 103ge Guide Free and Paid eBooks
  - Volvo Penta Tad 103ge Guide Public Domain eBooks
  - Volvo Penta Tad 103ge Guide eBook Subscription Services
  - Volvo Penta Tad 103ge Guide Budget-Friendly Options
6. Navigating Volvo Penta Tad 103ge Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Volvo Penta Tad 103ge Guide Compatibility with Devices
  - Volvo Penta Tad 103ge Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Volvo Penta Tad 103ge Guide
  - Highlighting and Note-Taking Volvo Penta Tad 103ge Guide
  - Interactive Elements Volvo Penta Tad 103ge Guide
8. Staying Engaged with Volvo Penta Tad 103ge Guide

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Volvo Penta Tad 103ge Guide
- 9. Balancing eBooks and Physical Books Volvo Penta Tad 103ge Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Volvo Penta Tad 103ge Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Volvo Penta Tad 103ge Guide
  - Setting Reading Goals Volvo Penta Tad 103ge Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Volvo Penta Tad 103ge Guide
  - Fact-Checking eBook Content of Volvo Penta Tad 103ge Guide
  - 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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