

# VOLVO PENTA AQUAMATIC DUOPROP

## AD31/DP

4-cylinder, 4-stroke, direct-injected turbocharged marine diesel engine with aftercooler and Duoprop drive. 96-110 kW (130-150 hp)\*

\*Crankshaft power according to ISO 8645

### Reliable marine engine

AD31L/P is a reliable and economic marine engine with considerable power resources, developed for planing craft. With its compact dimensions, it is excellent for twin installation.

### Direct injection

Direct injection (DI) results in a low thermal load and low fuel consumption compared with swirl chamber engines (ID) with the same cylinder capacity.

### Turbocharging

The engine is turbocharged with an exhaust-driven turbocompressor. More air can be forced into the cylinder in this way with the result that more fuel can be injected and the engine runs more efficiently. Since combustion takes place in a turbo engine with excess air, the exhaust gases are cleaner than in a naturally-aspirated engine.

The turbo also acts as an additional silencer both on the induction side and on the exhaust side.

### Aftercooler

The air heats up and expands when it is compressed. In other words, it takes up more space. The aftercooler cools the compressed and heated air and raises its oxygen content so that the engine can use the fuel more efficiently.

### Low exhaust emission levels

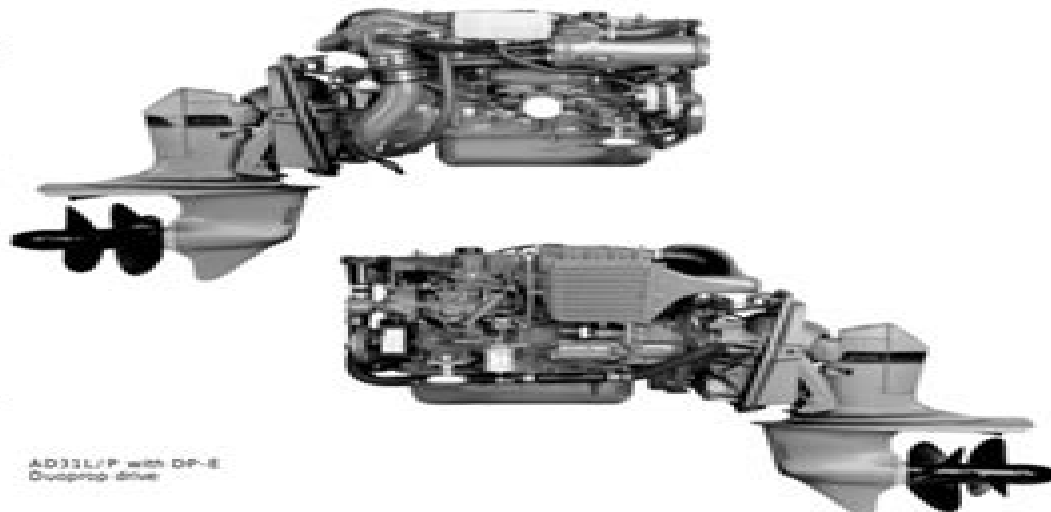
The direct injection, turbocharging and aftercooler contribute to minimizing noxious exhaust emissions and enhancing overall enjoyment of boating.

### DP drive

The DP drive with its twin counter-rotating propellers produces a harmonious drive unit with unbeatable characteristics in the boat in terms of speed, acceleration and fuel economy.

It also produces less noise and vibrations, better steering and maneuvering characteristics, better grip in the water and a shorter time to planing compared with single propeller systems.

The drive features standard power steering for maximum driving comfort.



AD31L/P with DP-II  
Duoprop drive

### Comprehensive service network

Volvo Penta has a well-established network of authorized service dealers in more than 100 countries throughout the world. These service centers offer Genuine Volvo Penta Parts as well as skilled personnel to ensure that you enjoy the best possible service.

### Technical description:

#### Engine and block

- Cylinder block and cylinder head made of cast iron for good corrosion resistance and long service life
- Oil-cooled pistons with two compression rings and one oil scraper ring
- Replaceable wet cylinder liners
- Replaceable valve seats
- Five-bearing crankshaft

#### Engine mounting

- Flexible mounting which provides sound and vibration insulation. The engine has two adjustable rubber mounts in front of the engine and rubber suspension between flywheel housing and transom shield

#### Lubrication system

- Pressure lubrication system with easily-replaced full-flow oil filter on the side of the engine
- Tubular oil cooler that can be cleaned

#### Fuel system

- Rotor-type injection pump with a mechanical governor for accurate speed control
- Smoke limiter
- Fine filter with water separator
- Feed pump with hand primer
- Electrically-operated stopping device

#### Inlet and exhaust system

- Inlet system designed to produce optimal air rotation which provides perfect combustion. This results in high power and low fuel consumption
- Inlet silencer with replaceable filter
- Closed crankcase vent system
- Seawater-cooled exhaust elbow of cast iron with a stainless steel insert
- Complete connection for exhaust outlet through the drive
- Exhaust-driven freshwater-cooled turbo-charger

# VOLVO PENTA

# Volvo Pentas Ad 31 D Manual

**Chao Zhang**



## **Volvo Pentas Ad 31 D Manual:**

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**Guide for NIFT/NID/IIFT 2022** Aarif,Kalpana Sharma,2021-06-18 1 This book is the ultimate guide for the fashion entrances 2 The guide is divided into 7 main sections 3 Complete theory has been synced with the syllabus 4 For section practice 2 Sections Tests are given in each 5 MCQs Crack Sets and Previous Solved Papers for complete practice 6 Detailed Solutions of Solved paper 2021 NID NIFT and IIFT conduct their own entrance exam to provide good and flourishing careers in the field of fashion Get yourself prepared with The Ultimate Guide for NIFT NID IIFT Entrance Examination 2022 that leads on the path of fashion and covering almost every institution entrance test syllabus It carries complete study material that covers for both graduate and postgraduate entrance Entire syllabus of the book has been categorized in 7 majors and sub categorized into chapters for complete learning For good grasping of concepts each chapter has been well explained elaborated in a student friendly manner At the end of every section 2 Section Tests are given for quick revision of subjects and ample number of MCQs are provided for complete practice Last but not the least well detailed Solved Paper of 2021 3 Crack Sets are given to analyze the paper pattern TOC NIFT Solved Paper 2021 2015

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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Volvo Pentas Ad 31 D Manual**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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### **Volvo Pentas Ad 31 D Manual Introduction**

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