

VOLVO PENTA AQUAMATIC DUOPROP

4.3GL/DPS

141 kW (190 hp)

Smooth-running

The 4.3GL is a V-6 gasoline engine with first-class comfort characteristics. With a balance shaft located in the center of the engine, the design offers quiet and virtually vibration-free operation. The engine is a perfect match for the Duoprop twin-propeller drive. Power steering is fitted as standard for maximum driving comfort.



Engine

4.3 liter gasoline engine in a V-6 configuration featuring: seawater cooling with cast iron cylinder block, cylinder heads and exhaust manifolds, which are specially developed for the marine environment. The exhaust manifolds and risers are EDP treated for increased durability.

The 4.3GL also features a balance shaft located in the center of the engine. The design offers quiet, virtually vibration-free operation by countering the primary imbalance of a standard V-6 cylinder configuration.

The advanced combustion system minimizes noxious exhaust emissions and enhances overall enjoyment of boating.

In addition, the seawater pump is located on the front of the engine for easy accessibility.

Aquamatic sterndrive

The Duoprop drive with its twin counter-rotating propellers features exhaust outlets through the propeller hub and cavitation plate producing a harmonious drive unit with unbeatable characteristics in the boat in terms of speed, acceleration, steering, maneuvering, fuel economy and less noise and vibration.

The drive is equipped with a cone clutch for easy and smooth shifting, pattern-matched spiral bevel gears for

optimum strength and minimum gear whine, a break-away shaft coupling to prevent costly drive train repairs, and sacrificial zincs located both on the drive and transom shield.

The drive is equipped with easily maneuvered hydraulic power trim for obtaining the best running position at different sea and load conditions.

A choice of stainless steel and aluminum propellers are available for different applications.

The 4.3GL features standard power steering for maximum driving comfort.

Electrical system

The electrical system features a 12 V corrosion-protected marine electrical system which meets the U.S. Coast Guard requirements. The engine is wired for easy plug-in connection to the instrument panel. The engine electrical system and the electric hydraulic power trim is protected by a 40 A circuit breaker and comes equipped with a 75 A alternator. Full instrumentation including trim gauge and wiring harness (option on certain markets).

Technical description:

Engine and block

- Cylinder block and cylinder heads made of cast iron for good corrosion resistance

- Pistons with two compression rings and one oil scraper ring
- Four-bearing crankshaft
- Valve train consisting of single camshaft, hydraulic valve lifters, push rods and two overhead valves per cylinder
- Gear-driven balance shaft
- Color-coded service points

Engine mounting

- Two adjustable rubber mounts, one on each side of the engine, and two between transom shield assembly and engine

Lubrication system

- Pressure lubrication system with full-flow oil filter of spin-on type
- Remote oil filter

Fuel system

- Fuel filter with water separator
- Flexible fuel lines

Inlet and exhaust system

- Flame arrestor
- Closed crankcase ventilation
- Seawater-cooled exhaust manifolds and risers made of cast iron
- Complete exhaust line with pipe and bellows for exhaust outlet through the drive

Cooling system

- Thermostatically controlled seawater cooling
- Crankmounted seawater pump
- Electrocoated exhaust risers and manifolds
- Flush fitting - hose connection to flush cooling system with freshwater

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Electrical system

- 12 V corrosion-protected electrical system
- 14-pin engine to boat connection
- Charging regulator with battery sensor for voltage drop compensation
- 75 A alternator with internal transistorized voltage regulator and internal fan
- Breakerless electronic ignition system
- Platinum tipped spark plugs
- 40 A resettable circuit breaker for the trim system
- 20 A fuse for protection of the fuel feed pumps
- Starter motor power 1.0 kW
- Audio alarm kit – engine oil pressure and temperature as well as exhaust overheat. Can be mounted at helm.

Instruments

(option on certain markets)

- Complete instrument panel including: Rev counter, engine temperature gauge, oil pressure gauge, voltmeter, key switch, two fuses, instrument light switch
- Wiring harness from engine to instrument panel
- Digital trim gauge as accessory
- Maneuver switch for power trim
- Wiring harness from trim pump to maneuver switch for power trim and trim gauge

Duoprop drive

- Cone clutch
- Coolant water intake for the engine located at the lower part of the drive
- Pattern-matched spiral bevel gears
- Exhaust outlets through propeller hub and cavitation plate
- Overload protection sleeve (break-away coupling)
- Standard tilt specification 52° (42° and 32° available as option on engine order)
- The drive can be turned 28° in each direction with power steering
- Built-in kick-up function to reduce possible damage, in the event the drive strikes an underwater object
- Serpentine belt-driven power steering pump
- Oil cooler for power steering
- Active corrosion protection as accessory
- Integrated speedometer (pitot tube) pickup in lower drive leg
- Easy to access drive anode placed on the back of the cavitation plate
- Industry standard transom cutout with 8 stud hole pattern

Power Trim

- Electrically operated hydraulic system with trim gauge for best driving comfort

- High capacity trim pump integrated with transom shield to ease installation and save space in engine compartment

Accessories

An extensive range of accessories for:

- Fuel system
- Cooling system
- Control system
- Steering system
- Instruments
- Electric system
- Comfort & Safety
- Propeller & Drive
- Maintenance

For detailed information, please see the Accessories & Maintenance Parts catalog (www.volvopenta.com).

Contact your local Volvo Penta dealer for further information. Not all models, standard equipment and accessories are available in all countries. All specifications are subject to change without notice.

The engine illustrated may not be entirely identical to production standard engines.

Technical Data

Engine designation	4.3GL
Propeller shaft power kW (hp)	141 (190)
Max. engine speed, rpm	4600
Displacement, l (in ³)	4.3 (262)
Number of cylinders	V-6
Fuel system	2 BBL
Bore/stroke, mm	101.6/88.4
(in.)	(4.00/3.48)
Compression ratio	9.4:1
Volvo Penta Duoprop drive	DPS
Ratio	2.32:1, 2.14:1 or 1.95:1
Dry weight engine, transom shield and drive, kg (lb)	400 (882)
Dimensions (not for installation):	
Engine length	
inside transom, mm (in.)	825 (32.5)
Engine width, mm (in.)	758 (29.8)
Height above crankshaft, mm (in.)	514 (20.3)
Height below crankshaft, mm (in.)	222 (8.8)

Propshaft power according to ISO 8665

Duty rating: R5 (Pleasure Duty)

The engines are certified according to EU RCD.

VOLVO PENTA

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