Powerful performance for commercial applications
The TAMD74C EDC marine diesel is specially developed for fast planing and semi-planing craft. The engine’s high output combined with a rich torque curve ensures excellent performance, acceleration and response, suitable for propeller and waterjet applications. Its compact dimensions optimizes boat layout and improves service accessibility.

EDC – optimizing engine performance
EDC (Electronic Diesel Control) – an electronically controlled processing system that determines the precise quantity of fuel required at any given moment. The EDC system takes full account of variation in operating temperature, air pressure and other contributing factors, which optimizes engine performance and efficiency, reducing fuel consumption and emissions.

Enhanced onboard comfort
The Volvo Penta in-line six cylinder engine is an uncomplicated design with a minimum of moving parts, specially developed for highly demanding marine applications. The engine is a well-balanced unit with powerfully dimensioned crankshaft bearings. This ensures smooth, vibration-free operation and low noise levels.

The EDC system improves engine response with lower and more stable idling. The electrical control levers are operated more smoothly and precisely, requiring much less force.

Automatic twin engine synchronization reduces noise and vibration levels, increasing service life of engine.

High-pressure injection in combination with six-hole nozzles and the EDC system optimizes fuel-air mixture. This greatly contributes to more efficient combustion with higher power and reduced noxious exhaust emissions. The engine is certified according to IMO and IMO US/EPA.

Easy installation and maintenance
Plug-in electrical connectors, compact dimensions and the EDC system ensures an easy, simple and time-saving installation. The EDC system’s self-diagnostic facility and easily accessible service and maintenance points contributes to the ease of service of the engine.

Worldwide service support in more than 100 countries
The Volvo Penta Parts and service dealer network is a truly international operation with authorized service dealers around the world. These service centers offer Genuine Volvo Penta Parts as well as skilled personnel to ensure the best possible service. Continuous product and service training ensures that our products are well supported.

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Technical description:
Engine and block
- Cylinder block and cylinder heads made of cast iron alloy
- Two cylinder heads
- Replaceable wet cylinder liners and valve seats/guides

- Nitrocarburized crankshaft with seven main bearings
- Oil-cooled forged aluminum pistons
- Three piston rings, upper of keystone type

Lubrication system
- Freshwater-cooled oil cooler
- Side-mounted full-flow and by-pass filter of spin-on type
- Oil dipsticks on both sides of oil sump

Fuel system
- Fuel injection pump incl. fuel feed pump and electronically controlled actuator
- Electronically controlled central processing system (EDC – Electronic Diesel Control) with integrated stop function
- Compensation to allow max output at fuel temperatures of 5–55°C (41–131°F)
- Six-hole injectors
- Twin fine fuel filters of spin-on type

Turbocharger
- Freshwater-cooled turbocharger with wastegate

Cooling system
- Tubular heat exchanger with integrated expansion tank or 2-circuit keel cooling
- Seawater-cooled tubular aftercooler
- Gear-driven seawater pump

Electrical system
- 12 V or 24 V electrical system incl. alternator (60A) with charging sensor
- Rubber suspended electrical terminal box with semi-automatic fuses
Technical Data

Engine designation: TAMD74C EDC

Engine
- No. of cylinders and configuration: in-line 6
- Method of operation: 4-stroke, direct-injected, turbocharged diesel engine with aftercooler
- Bore, mm (in.): 107 (4.21)
- Stroke, mm (in.): 135 (5.31)
- Displacement, l (in3): 7.28 (444)
- Compression ratio: 17.2:1
- Dry weight, kg (lb): 860 (1896)
- Weight with reverse gear MG5075A-E, excl. water and oil, kg (lb): 1045 (2304)

Fuel system
- Rear-mounted full-flow and bypass oil filters of spin-on types

Exhaust system
- Exhaust elbow, wet
- Exhaust boot, wet
- Exhaust elbow, dry
- Flexibele compensator, dry

Cooling system
- Seawater strainer
- Hot water outlet
- Separate expansion tank

Electrical system
- 12V 130A or 24V 100A alternators
- Various instrument panels
- Cable harness in different lengths
- EDC Monitoring panels
- Multistation unit
- Electrical control lever

Power transmission
- PTO crankshaft front end, type stub shaft incl. universal bracket
- Hydraulic pump for steering and other duties

Reverse gear

Other equipment
- Belt guard
- White painted engine and reverse gear

Technical data according to ISO 3046 Fuel Stop Power and ISO 8665. Fuel with lower calorific value of 42,700 kJ/kg and density of 840 g/liter at 15°C (60°F). Merchant fuel may differ from this specification which will influence engine power output and fuel consumption.

Optional equipment:

Engine
- Flexible suspension for engine and reverse gear

Lubrication system
- Electrically operated oil drain pump

Dimensions TAMD74C EDC with MG5075A-E

Not for installation