

# VOLVO PENTA INBOARD DIESEL

# D1-20

13.8 kW (18.8 hp) crankshaft power acc. to ISO 8665



## New generation D1 for enhanced yacht comfort

The new generation Volvo Penta D1 series is designed to meet the most stringent environmental legislation – US EPA Tier 3. Further reduced sound level and low cruising rpm gives quiet running and low vibrations. The 115A alternator with a built-in charging sensor provides rapid charging for onboard electrical needs.



D1-20 with S-drive 130S



The base engine is developed for industrial applications and marinated for the highest marine demands. This guarantees a reliable engine with a long service life.

### Comfort

Smooth running with very low vibration levels is achieved through a dynamically balanced design incorporating a flywheel of high rotating mass and high efficiency rubber isolation.

The new engine with re-designed combustion chambers and lower engine speed – 2800–3200 rpm – together with the new inlet air silencer gives the highest comfort on board. The noise is further reduced by up to 3 dBA from an already low level.

The engine's high torque provides excellent operating characteristics to aid maneuvering, particularly in confined spaces.

The engine has EVC instrumentation and NMEA interface for presenting engine data on chart plotters.

### Environment

The new generation D1 meets the world's most stringent emission

legislation – US EPA Tier 3. The particulate emissions are now reduced by 50%.

The D1-20 is certified according to BSO, EU RCD and US EPA Tier 3.

### Service Life

The D1-20 is fitted with freshwater cooling as standard. This reduces internal corrosion and enables the engine to maintain a consistent and optimal working temperature under all conditions.

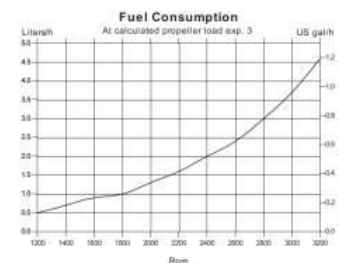
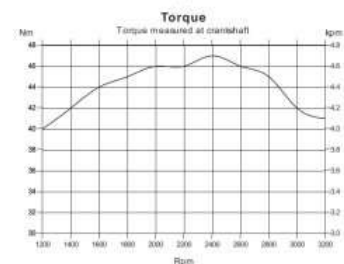
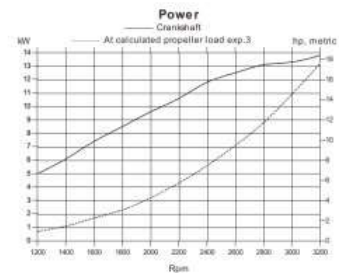
To avoid galvanic corrosion the engine is equipped with a unique electrical isolation between engine and S-drive.

### Charging capacity

The 115A alternator with an electronic sensor makes it possible to use a higher battery capacity and have fully charged batteries on board. Even at idle speed, the alternator gives more than 35A, and at cruising speed it delivers approx. 100A.

### Transmissions

Six matched transmission options are available, each built for durability and smooth running.



**VOLVO PENTA**