



Perkins

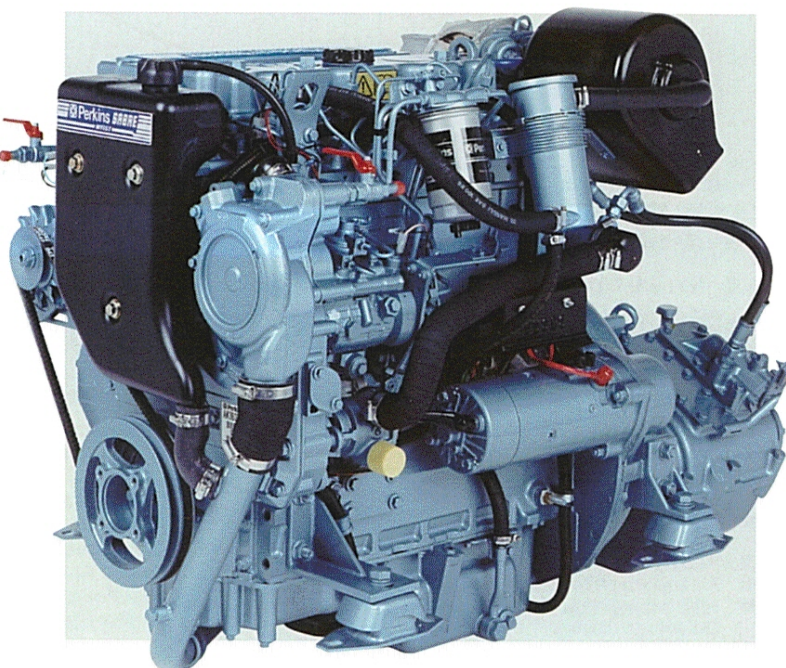
M115T

84 kW/114 hp

Propulsion Unit – Pleasure and Commercial Applications

The new generation of 4 cylinder, 4 litre, direct injection marine diesel engines from the Perkins Sabre partnership provides:

- **Premium engine features for reliability and durability** – minimises engine downtime and service costs
- **Clean, quiet power** – designed to operate free of smoke to the naked eye combined with low noise
- **Lowest cost of ownership in its class** – it pays to compare running costs
- **Unrivalled global and local service support** – service available wherever you are



Reliable Power

- With over 7.5 million 4 and 6 litre predecessors sold in non-marine applications, this new generation engine has an excellent pedigree of reliability
- Cooling provided by gear driven fresh and sea water pumps – no danger of coolant belt failure
- Higher efficiency cooling system with high capacity heat exchange equipment and high quality cupro-nickel tube stack
- High capacity fuel filter with pre-filter option and water alarm facility minimises failure due to fuel contamination
- Total containment of fluids and gases and unaided start down to -10°C

Durable Power

- This new generation engine is designed to give at least 12,000 productive hours service life before needing a basic overhaul
- Low engine rated speed to reduce wear and noise

Low Cost of Ownership

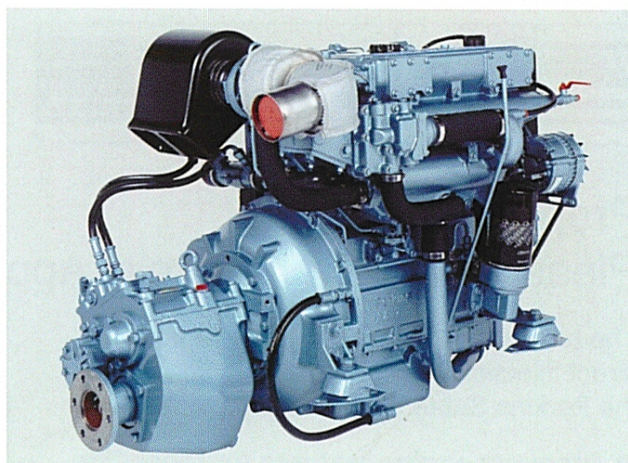
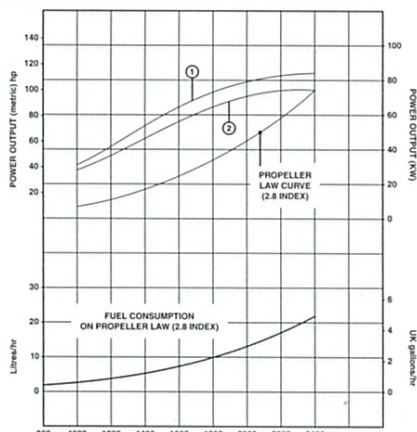
- Operator costs are a vital consideration when deciding which engine to purchase. This is a particularly important factor in commercial craft when operating hours can be significant
- Low fuel consumption, low cost of parts and extended service intervals with **up to 500 hour** oil change periods (for approved applications only) means low operator running costs
- Quick, easy and economical maintenance is made possible by the convenient positioning of service points, for easy accessibility

Clean and Quiet Power

- Developed from off-highway EEC and US Federal emissions legislation, the M115T is aimed at surpassing future marine legislation
- These new generation engines go further for the operator and the environment by also operating free from visible smoke throughout the operating speed range
- Not only cleaner but quieter too, now acknowledged as one of the quietest marine diesels available

Global Service

- Unrivalled service network with over 4,000 distributors and dealers providing fast and effective parts and aftermarket support service
- A genuine top quality warranty package offering a full two year cover for engines operating less than 500 hours per year



Propellers should be matched to achieve rated engine speed under fully laden boat conditions. Engine as delivered from factory will be set to produce gross (flywheel) power output within manufacturing tolerance and run-in allowance to ISO 8665 conditions

- Gross flywheel power (at maximum production tolerance) – Curve 1 84 kW (114 hp)
- Net shaft power (nominal) with Newage PRM 500D gearbox – Curve 2 75.5 kW (103 hp)
- Rated engine speed 2400 rev/min

Standard Engine Specification

- Base engine
- Fresh water heat exchanger cooled engine with gear driven self priming raw water and fresh water pumps or keel cooling adaption
- Fresh water cooled exhaust manifold combined with intake manifold and heat exchanger
- Wastegated turbocharger with insulation cover
- Air intake with re-usable elements
- High inclination engine sump with sump drain facility and top access dipstick
- Inverted spin-on element lub oil filter with 'disc' type oil cooler
- Transmission oil cooler
- Totally enclosed engine breather
- High mounted single element fuel filter
- Manual control adaption parts
- Alarm switches and warning siren

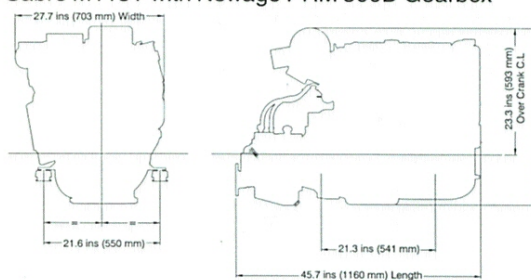
General Data

Bore / Stroke	100.0/127.0mm
Cubic Capacity	3.99 litres
Cycle	4 stroke
Number of Cylinders	4 in-line
Aspiration	Turbocharged
Combustion System	Fastram direct injection
Engine Rotation	Anti-clockwise viewed from rear
Fuel Pump	Lucas rotary with electric and manual stop
Engine Operating Angles	Maximum continuous operating angles 20° front up; 25° sideways (35° sideways intermittent operation)
Power Take Off	Available from front end drive (for drive limitations refer to Sabre Engines Ltd)
Wet Weight	423 kg (933 lbs) engine only 504 kg (1,111 lbs) with PRM 500D 460 kg (1,014 lbs) with Hurth HSW 450A

Optional Equipment

- **Backends** – suitable for a range of transmissions
- **Marine Transmissions (Standard)**
 - Hurth HSW 450A
 - Newage PRM 500D
- **Electrical** – 12 or 24 volt electrics
- **Exhaust Outlets**
 - Variable angle water injected outlet
 - Dry outlet flange
- **Instrumentation** – single and dual station instrumentation including audible and visual alarms with gauges, senders, switches, loom and varying lengths of interconnecting cables. Simple tachometer panels are also available
- **Power Take Off** – crankshaft PTO extension shaft with pulley drives
- **Mountings** – Solid mounting brackets – flexible engine mountings with alignment shims, optional brackets and flexible mountings when re-engining 4.236 (M90) engines
- **Miscellaneous**
 - Sump drain pump (supplied loose)
 - Belt cover
 - Solid or flexible output couplings
 - Engine mounted electro-magnetic bilge pumps
 - Fuel pre-filter with water alarm, feed and return pipes
 - Calorifier connections
 - Tool kit
 - On-board parts kit

Perkins Sabre M115T with Newage PRM 500D Gearbox



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