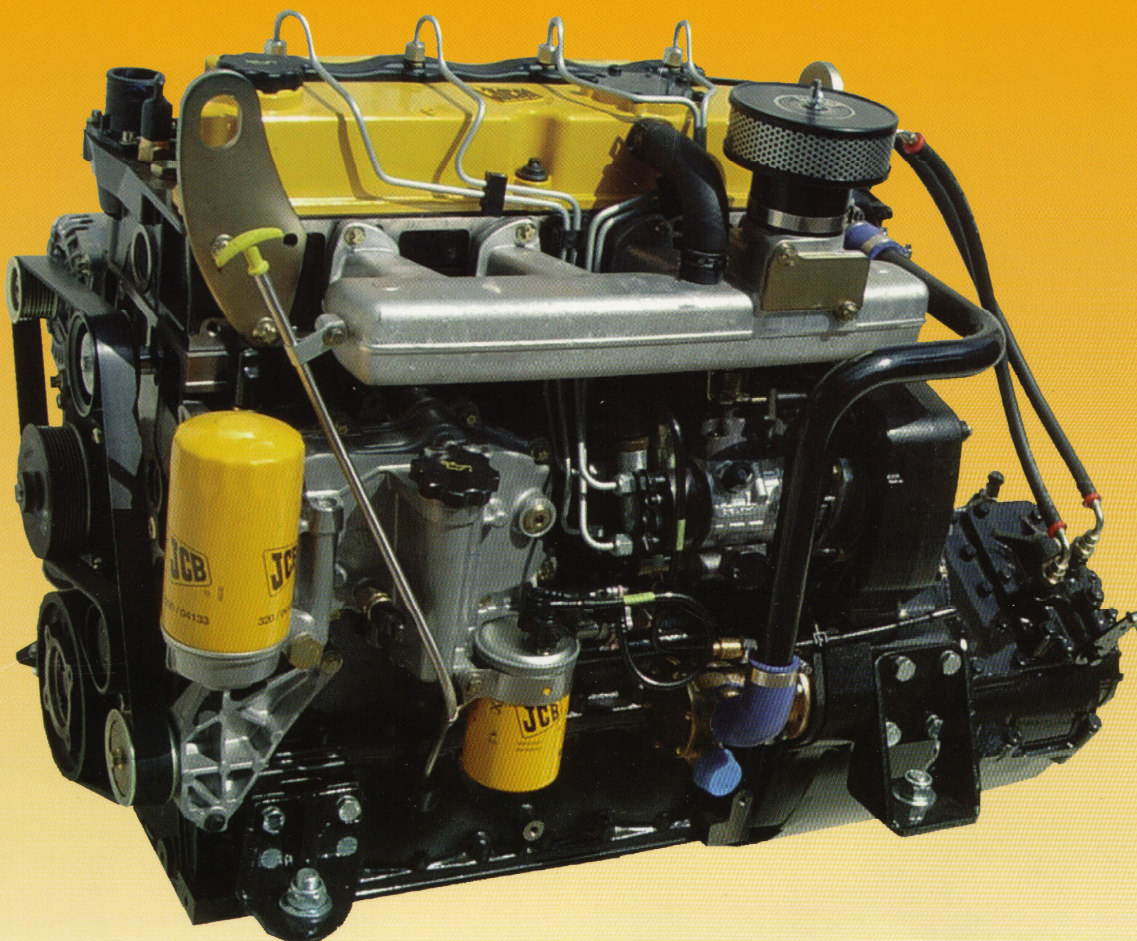




Mermaid Marine Diesel Engine **J444**

Developing 63kw (84 b.h.p) at 2200 r.p.m.



The Mermaid J444 is a 4 cylinder, naturally aspirated heavy duty marine diesel engine and is based on the highly reliable JCB 444 series industrial engine. The engine is suitable for all commercial duties and with the optional gear driven hydraulic pump is particularly suited to inshore fishing vessels and small workboats.

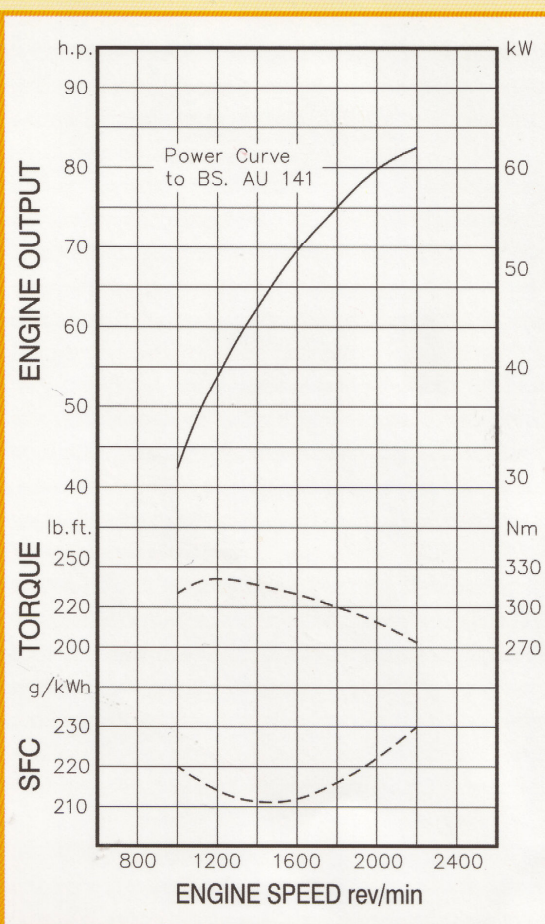
The long life expectancy of this engine makes it an attractive choice to the discerning pleasure boat owner where the unit is suited to a wide range of applications including sailing and power cruisers as well as barges and inland waterways boats.

Size and weight have been carefully optimised to ensure compatibility with previous installations based on Ford derivatives.

To meet the requirements of these varied applications the design incorporates the very latest diesel engine technology including 4 valves per cylinder with mechanical or electronic common rail fuel systems to keep exhaust emissions in compliance with Tier 3 requirements. The technology also serves to minimise noise levels to 89dBA, whilst maintaining exceptionally low fuel consumption.

Each marine engine is individually assembled to the highest standards and incorporates a purpose designed combined heat exchanger and exhaust manifold as well as an integral freshwater oil cooler to maintain optimum oil temperature. A self tensioning poly V belt drives the freshwater circulating pump and the alternator. For the extra reliability for which Mermaid engines are renowned, the raw sea water circulating pump and optional hydraulic pump PTO unit are driven by a rear gear train assembly.

After assembly every engine is Dynamometer tested to ensure it performs to specification and finally is carefully finished in Mermaid J Series livery of black and yellow to protect the engine throughout its life.



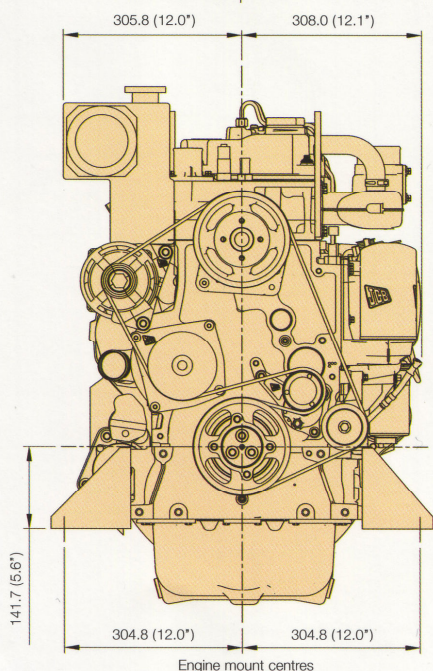
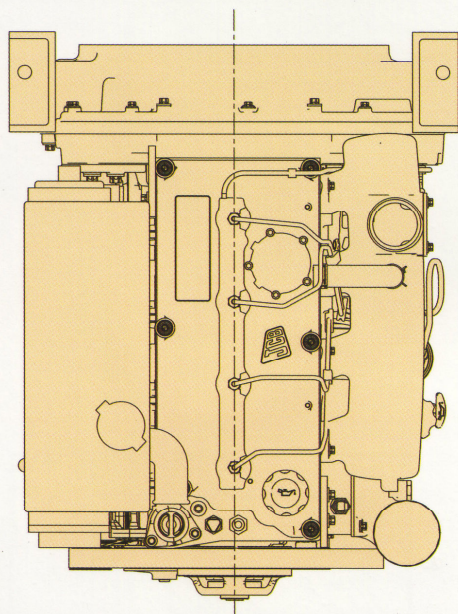
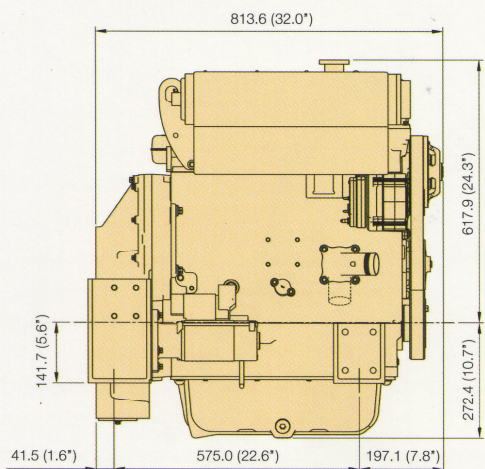


Mermaid Marine Diesel Engine

J444

Developing 63kw (84 b.h.p) at 2200 r.p.m.

Dry weight (Bobtailed) 450 kg (990 lb)



Dimensions in mm (inches in brackets)

Specification

No of Cylinders	4
Bore	103mm (4.05 in)
Stroke	132mm (5.19 in)
Capacity	4399 cc (268 cu in)
Compression Ratio	18.56 : 1
Fuel System	Rotary Type Mechanical Fuel Injection Pump, variable speed governor, automatic bleeding and electric stop. Fuel filter, water trap and fuel lift pump are fitted as standard.
Lubrication	Pressure throughout with full flow external, spin off filter and fresh water cooled oil cooler.
Cooling	An indirect cooling system is standard incorporating a high capacity heat exchanger and gear driven raw water pump. The freshwater system is pressurised and thermostatically controlled and includes a centrifugal impeller type fresh water pump driven by self adjusting poly vee belt.
Electrical System	The standard 12 volt electrical equipment includes a 95 amp alternator and a 4.2kw starter motor. Optional extra equipment includes 24 volt electrical system and block heaters.
Instrumentation	A comprehensive instrument panel using VDO Marine electric instruments with an audible alarm for both high water temperature and low oil pressure is provided with a 6 metre loom with a plug and socket terminations both ends.
Accessories	The following equipment is provided as standard with every Engine: Fully adjustable marine resilient mountings, Morse cable brackets for speed and gear control, stainless steel water injection bend for 75 mm hose, flexible fuel pipes and sump oil pump. A comprehensive range of optional equipment is available to provide a complete installation package including gear driven hydraulic PTO pumps.
Marine Transmissions	As with all Mermaid engines a range of gearboxes is available including, PRM, Borg Warner, Twin Disc, and Hurth. Reduction ratios from 1:1 to 3:1 are available using these Transmissions.

Distributor:



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