

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER'S CERTIFICATE.

The following is a true Account of the Particulars of the Machinery and Boilers:—

ENGINES.—Here state description of Engines, whether Direct Acting or Geared; Inverted, Horizontal, Diagonal, or Oscillating Cylinders; No. of Cylinders, &c.

Direct acting, inverted cylinders, two in number

ENGINES, maker of *Robert John Marshall*
 „ age of *new*
 „ last time taken out *never*
 „ present condition *good*
 Diameter of Cylinder *27 inches*
 Length of stroke *24" d*
 No. per minute of Engines *60*
 „ of Screw *60*
 Estimated power *50 nominal*
 Effective power *about 200 indicated*
 Diameter of Screw (or Paddle Wheels) *9ft 6"*
 Pitch of Screw *1 1/4 ft*
 No. of Blades (or Floats) *Four*
 Description of Screw (or Floats) *Common*
 Holding down Bolts, size *1 1/2"*
 „ present condition *good new*

Bilge Pumps, No. (*2*) and size *5 inches*
 Feed „ No. (*2*) and size *5"*
 Spare gear, if usual quantity on board Vessel *All that is usually carried on short voyages*
 Fuel, where stowed *In iron bunkers*
 „ space between Coal Bunkers and Boilers *about 6 inches*
 „ for what quantity is space provided *20 Tons*
 Donkey Engine ~~and Boiler~~ *yes*
 „ if fitted in Engine Room or on Deck *Engine room*
 „ can pump be worked by hand *no*
 „ size of pump (*2 1/2*) and stroke *6"*
 „ is hose of sufficient length to reach every part of the Vessel *yes*
 No. (*one*) and continuation of hand pumps, if fitted in Engine Room *yes don't act*

Are the shut-off valves or cocks of all openings for the inlet or outlet of water in connection with the Engines & Boilers fitted close to the ship's sides, and are they accessible at all times? *yes*

BOILER.—Here state description of Boiler, and No.; if Tubular, or Flues; No. of Furnaces; if fitted with superheating apparatus; if Fired athwartships, or from fore, or after end of Boiler, &c.

*One Boiler Tubular with 2 furnaces, no superheating apparatus
 Fired from aft end*

BOILER, maker of *Robert John Marshall*
 „ age of *new*
 „ when last taken out *never*
 „ present condition *good*
 „ working pressure *25 lb*
 No. of surface Blow off Cocks to each Boiler *2*

Can each Boiler be used separately *one only*
 What clear space between top of Boiler and woodwork *one foot*
 What clear space between Funnel and woodwork *1ft 6" & iron casing*
 Are Engine and Boiler Keelsons well connected fore and aft *yes*

SCREW SHAFT length *11 feet* diameter *5 3/4 in* Tunnel, thickness of plating *height*
 if water-tight door on Engine Bulkhead *Stuffing box runs right into engine room*

Port of *South Shields* 11th day of *August* 187*0*

I hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *Neptune* belonging to *South Shields* whereof *J. Jarrat* is Master, *131.10* Tons Register, and *50* H.P. have been carefully inspected and examined by *me* at *South Shields* and I found the same, at this date, in good order and safe working condition.

Robert Marshall



Lloyd's Register
 Foundation
 Marine Engineers.

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