

9998

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.

Inverted, Direct Acting — No. of Cylinders — Two.

ENGINES, maker of *Geo Clark*
 „ age of *6 years*
 „ last time taken out *October, 1841*
 „ present condition *good, just had thorough repairs*
 Diameter of Cylinder *34 1/2 inches*
 Length of stroke *28*
 No. per minute of Engines *70*
 „ of Screw *70*
 Estimated power *70*
 Effective power *280*
 Diameter of Screw (or Paddle Wheels) *9 feet*
 Pitch of Screw *16 1/2*
 No. of Blades (or Floats) *8*
 Description of Screw (or Floats) *expanding pitch*
 Holding down Bolts, size *ordinary*
 „ present condition *good*

Bilge Pumps, No. (*2*) and size *3 1/2 in.*
 Feed „ No. (*2*) and size *3 1/2*
 Spare gear, if usual quantity on board Vessel *yes*
 Fuel, where stowed *alongside of Boilers*
 „ space between Coal Bunkers and Boilers *9 inches*
 „ for what quantity is space provided *about 90 tons*
 Donkey Engine and Boiler *Don*
 „ if fitted in Engine Room or on Deck *fitted in Engine room*
 „ can pump be worked by hand *yes*
 „ size of pump (*5 in*) and stroke *7 inches*
 „ is hose of sufficient length to reach every part of the Vessel *yes*
 No. (*1*) and continuation of hand pumps, if fitted in Engine Room *fitted in Engine room*

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 — Multitubular. Four Furnaces, fitted with Superheating apparatus — fired from after end of Boiler.

BOILER, maker of *built at Ryegate Dockyard*
 „ age of *not known*
 „ when last taken out *—*
 „ present condition *new back & front tubular plate and tubes put in, all right, boiler in good order*
 „ working pressure *17 lbs*
 No. of surface Blow off Cocks to each Boiler *two*

Can each Boiler be used separately *only one Boiler*
 What clear space between top of Boiler and woodwork *2 feet*
 What clear space between Funnel and woodwork *6 feet*
 Are Engine and Boiler Keelsons well connected fore and aft *yes*

SCREW SHAFT length *about 15 ft* diameter *4 1/2 inches* Tunnel, thickness of plating *3/16 in* height *about 10 ft*
 width *3 ft* if water-tight door on Engine Bulkhead. *yes*

Port of *Sunderland* *21st* day of *November* 18*41*

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *Barthpool* belonging to *E. J. Howley* whereof *R. S. Newton* is Master, *445* Tons Register, and *70* H.P. have been carefully inspected and examined by us at *Sunderland* and we found the same, at this date, in good order and safe working condition.

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MR. S. Aaron
John Dickenson
 Marine Engineers.