

12230 Jan

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.

Recd 23/1/74 B.J.

ENGINES, maker of *B & W Hawthorn*
 „ age of *1866*
 „ last time taken out *1866*
 „ present condition *Thoroughly overhauled*
 Diameter of Cylinders *19 1/2" & 14 1/2"*
 Length of stroke *36"*
 No. per minute of Engines *58*
 „ of Screw *58*
 Estimated power *80*
 Effective power *360*
 Diameter of Screw (or Paddle Wheels) *Not known*
 Pitch of Screw *Not known*
 „ of Blades (or Floats) *Three*
 Description of Screw (or Floats) *Common*
 Holding down Bolts, size *Common*
 „ present condition *Good*

Report No 24070

Bilge Pumps, No. (*1*) and size *not known*
 Feed „ No. (*1*) and size *not known*
 Spare gear, if usual quantity on board Vessel *Yes*
 Fuel, where stowed *At side of boiler & engine*
 „ space between Coal Bunkers and Boilers *14"*
 „ for what quantity is space provided *about 110 tons*
 Donkey Engine and Boiler *Yes*
 „ if fitted in Engine Room or on Deck *Engine room*
 „ can pump be worked by hand *Yes*
 „ size of pump (—) and stroke *—*
 „ is hose of sufficient length to reach every part of the Vessel *Yes*
 No. (—) and continuation of hand pumps, if fitted in Engine Room *none*

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 force, or after end of Boiler, &c.

On Tubular Boiler with three furnaces fired from after end no superheater

BOILER, maker of *Fawcett Preston & Co*
 „ age of *Oct-1873*
 „ when last taken out *—*
 „ present condition *—*
 „ working pressure *80 lbs*
 No. of surface Blow off Cocks to each Boiler *One*

Can each Boiler be used separately *Yes*
 What clear space between top of Boiler and woodwork *4' 0"*
 What clear space between Funnel and woodwork *3' 6"*
 Are Engine and Boiler Keelsons well connected fore and aft *Yes*

CREW SHAFT length *Not known* diameter *9"* Tunnel, thickness of plating *1/4* height *tube*
 width *—* if water-tight door on Engine Bulkhead. *water-tight*

Port

Liverpool day of *Nov* 18 *73*

I hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *Cassino* belonging to *Row & Smyth & Co* whereof *—* is Master, *684* Tons Register, and *80* H.P. have been carefully inspected and examined by *me* at *Liverpool* and *I* found the same, at this date, in good order and safe working condition.

W. H. W. 23/1/74

Geo. H. P. W. 23/1/74

IRON 456-0104

Marine Engineers.

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