

9257 Iron

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 Cylinders direct acting number of Cylinders Two

ENGINES, maker of Richardson & Son, age of 6 years, last time taken out never, present condition good, Diameter of Cylinder 38 inches, Length of stroke 24 in, No. per minute of Engines 45, of Screw 5, Estimated power 100, Effective power 270, Diameter of Screw (or Paddle Wheels) 12 feet, Pitch of Screw 16, No. of Blades (or Floats) 3, Description of Screw (or Floats) 2 3/4 ft, Holding down Bolts, size 3 3/4, present condition good, Bilge Pumps, No. (2) and size 5, Feed, No. (2) and size 5, Spare gear, if usual quantity on board Vessel 5 coupling bolts, Fuel, where stowed 4 one valve rod, space between Coal Bunkers and Boilers 7 inches, for what quantity is space provided 13 1/2 Tons, Donkey Engine and Boiler one, if fitted in Engine Room or on Deck Donkey in Engine room boiler on deck, can pump be worked by hand no, size of pump () and stroke 1, is hose of sufficient length to reach every part of the Vessel +, No. () and continuation of hand pumps, if 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 force, or after end of Boiler, &c.

Ordinary Multitubular Boiler Low Pres. Charged Forward End

BOILER, maker of Batchelor Brothers, age of 2nd June 1870, when last taken out, present condition Muddling, working pressure 20 lbs, No. of surface Blow off Cocks to each Boiler 2, Can each Boiler be used separately one boiler, What clear space between top of Boiler and woodwork 9 inches, What clear space between Funnel and woodwork 23 inches, Are Engine and Boiler Keelsons well connected fore and aft yes, SCREW SHAFT length 83 diameter 8 inch, Funnel, thickness of plating 3/16 height 5.2 inches, width if water-tight door on Engine Bulkhead. yes

Port Sunderland day of Nov 7 1870

I hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel Elaine belonging to Sunderland whereof 120y is Master, 453 Tons Register, and 100 H.P. have been carefully inspected and examined by me at Sunderland and have found the same, at this date, in good order and safe working condition.

Joseph Richy Engineer of Ships Lloyd's Register Marine Engineers.

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Foundation