

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 Compound Surface Condensing

ENGINES, maker of Hawthorne & Co Newcastle
 „ age of Compounded 1870
 „ last time taken out
 „ present condition Good
 Diameter of Cylinder 2-19" & 2-43"
 Length of stroke 33
 No. per minute of Engines
 „ of Screw 60
 Estimated power 140
 Effective power 430
 Diameter of Screw (or Paddle-Wheels) 12'-6"
 Pitch of Screw 16" 6
 No. of Blades (or Floats) four
 Description of Screw (or Floats) Solid cast iron
 Holding down Bolts, size 2 1/2
 „ present condition Good

Bilge Pumps, No. (2) and size 4 3/4
 Feed „ No. (2) and size 4 3/4
 Spare gear, if usual quantity on board Vessel } Yes
 Fuel, where stowed Bunkers & side of Boilers
 „ space between Coal Bunkers } 8" in smallest
 and Boilers
 „ for what quantity is space provided about 200 tons
 Donkey Engine and Boiler Yes
 „ if fitted in Engine Room or }
 on Deck } Two decks
 „ can pump be worked by hand Yes
 „ size of pump (6") and stroke 10"
 „ is hose of sufficient length to }
 reach every part of the Vessel } Yes
 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 fore, or after end of Boiler, &c.

One Multitubular, four furnaces, fired fore & aft with Steam
 Chest on top & two funnels Superheater discontinued

BOILER, maker of James Taylor & Co
 „ age of 1870
 „ when last taken out
 „ present condition Good
 „ working pressure 70 lbs
 No. of surface Blow off Cocks to }
 each Boiler } 2

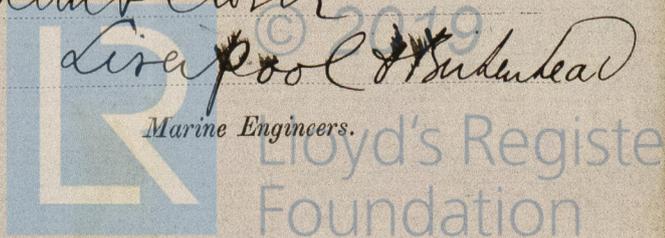
Can each Boiler be used separately one
 What clear space between top of }
 Boiler and woodwork } 6"
 What clear space between Funnel }
 and woodwork } 2 ft 3 in
 Are Engine and Boiler Keelsons }
 well connected fore and aft } Yes

SCREW SHAFT length 45 ft diameter 8 3/4" Tunnel thickness of plating 3/8" height 3 ft 3"
 width if water-tight door on Engine Bulkhead. Yes

Port Liverpool 22nd day of Jan 1874

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood)
 Screw (or Paddle) Steam Vessel Type Queen belonging to Messrs Junin & Slater
 whereof Casson is Master, 625 Tons Register, and 140 H.P. have been
 carefully inspected and examined by us at Birkenhead and have found the
 same, at this date, in good order and safe working condition.

Ashlin & Clover
 Liverpool & Birkenhead
 Marine Engineers.



Handwritten signature and date: 27/1/74