

12246 Iron "Tyne Queen" 12246 No 24,074
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 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 } Twelve weeks
on Deck
,, 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 } 2 ft 3 in
and woodwork }
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 Tyne 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.

Lloyd's Register
Foundation

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