

Iron * 150 4 8

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.

Patent Vertical Double Compound Surface-Condensing Marine Steam Engines

ENGINES, maker of Timothy Bates & Co (Pollit & Wiggill)
age of New
last time taken out
present condition New
Diameter of Cylinders 2 High pressure 18" ea, 2 Low do 37" ea
Length of stroke 30 inches
No. per minute of Engines 72
of Screw 4
Estimated power 90 Horse power
Effective power 360
Diameter of Screw (or Paddle Wheels)
Pitch of Screw 14 ft
No. of Blades (or Floats) 4 Blades
Description of Screw (or Floats) Griffiths
Holding down Bolts, size 1 1/2
present condition new
Bills Lumps, No. (two) and size 4 x 9
Feed No. (two) and size 4
Spare gear, if usual quantity on board Vessel Yes
Fuel, where stowed Coal Bunkers
space between Coal Bunkers and Boilers 1 ft. 6 in
for what quantity is space provided
Donkey Engine and Boiler Yes
if fitted in Engine Room or on Deck Engine below, Boiler on deck
can pump be worked by hand Yes
size of pump () and stroke 3 inch pump
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.

Two Circular Multitubular Boilers with 4 Furnaces fired from fore end

BOILER, maker of D. Adamson & Co
age of New
when last taken out
present condition
working pressure 7.5 lbs
No. of surface Blow off Cocks to each Boiler
Can each Boiler be used separately Yes
What clear space between top of Boiler and woodwork 3 feet. 6 in
What clear space between Funnel and woodwork 3 feet
Are Engine and Boiler Keelsons well connected fore and aft Yes
SCREW SHAFT length 50 feet. diameter 8 in Tunnel, thickness of plating 1/4 height 4 feet. 9 in
width 3 feet. 9 in if water-tight door on Engine Bulkhead. Yes

Port Sunderland, 1 day of July 1872

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel "Marcasite" belonging to Sunderland whereof is Master, Tons Register, and 90. 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.

Messrs Pollit & Wiggill
Power & Bridge
Marine Engineers.

Mrs Hope Harrington
at Coverley & Westley
5 St. Bennet Place

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Foundation