

Iron * 150 48

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 *—*
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*
Bize Pumps, 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 } *1 ft. 6 in*
and Boilers }
,, for what quantity is space provided
Donkey Engine and Boiler *Yes*
,, if fitted in Engine Room or } *Engine below, Boiler on deck*
on Deck }
,, can pump be worked by hand *Yes*
,, size of pump () and stroke *3 inch Pump*
,, is hose of sufficient length to } *Yes*
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.

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 }
SCREW SHAFT length *50 ft* diameter *8 in* Tunnel, thickness of plating *1/4* height *4 ft. 9 in*
width *3 ft. 9 in* if water-tight door on Engine Bulkhead. *Yes*
Can each Boiler be used separately *Yes*
What clear space between top of } *3 feet. 6 in*
Boiler and woodwork }
What clear space between Funnel } *3 feet*
and woodwork }
Are Engine and Boiler Keelsons } *Yes*
well connected fore and aft }

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