

20821 Lm

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

Rec 13/5/78

ENGINES.

Description *Single Compound Surface Cond.*
 Made by *Cosser Shipbuilding & Engineering Co.*
 When *1878* At *Hull*
 Diameter of cylinder *2: 26 3/4 x 58* Length of stroke *3: 9*
 No. of revolutions per minute
 Point of cut off *3/4 of stroke*
 Diameter of screw shaft *1 1/2*
 Diameter of crank shaft journals *1 1/2*
 Diameter of screw, or of paddle wheel *15: 0*
 Pitch of screw *10: 0*
 No. of blades, *4* Total surface *60: 0*
 No. of bilge pumps *2* and sizes *2 1/2 dia. 3: 9 stroke*
 Do they pump from each compartment *Yes*

Are all the bilge suction pipes fitted with roses *Yes*
 No. of feed pumps *1* and sizes *3: dia. 3: 9 stroke*
 What gauges are there attached to the engines and boilers ... *4 Steam gauges*
1 Vacuum gauge
 Description and size of Donkey Pumps ... *1: 1st Ballast donkey: Vertical 10: dia. 10: stroke Pump 3/4 dia.*
 Where do they pump from ... *Pump from sea from all holds and from both ballast tanks. 2: 2nd feed donkey: Vertical 8: 1/2 dia. 8: stroke feeds ballast only.*
 No. of bilge injections *One* and sizes *5: pipe*
 Are they connected to air, or circulating pumps *Circulating*
 Is there a hand pump in the engine room *No*
 Can it be worked by the main engines
 Is there a deck hose of sufficient length to reach to any part of the vessel *Yes*

MAIN BOILERS.

Number *Three* Description *2 tubular circular 1 oval*
 Made by *Cosser Shipbuilding & Engineering Co.*
 When *1878* At *Hull*
 Working pressure *80 lb p. sq. inch*
 Tested by hydraulic pressure to *160 lb*, Date *12 Sept. 78*
 Description of super-heating *None*
 Are they worked separately *Yes*

Can the super-heater be shut off and the boilers worked separately
 Description and area of safety valves on each boiler ... *2: Scaton & Cameron's Spring valves. 22: 00*
 No. of square feet of fire-grate surface in each boiler *Circular boiler 40: 60: 00*
 Oval " 33: 3: 00
 Are there separate blow off and brine cocks on each boiler, independent of those on the vessel's skin *Yes*
 Are all pipes, cocks, roses, and pumps in connection with the machinery accessible at all times. *Yes*

DONKEY BOILER.

3: 1/2 dia. with 3 cross tubes, stokehole.

by *Messrs Clark Chapman & Gurney*
 Tested by hydraulic pressure to *130 lbs* (I was present), Date *Sept 13/77*
 Description and area of safety valves *2 loaded direct 3: each = 1 1/2 area.*
 No. of square feet of fire grate *24.*

PIPES, COCKS, AND CONNECTIONS.

Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates ... *Yes*
 Are the discharge pipes above or below the deep water line *Below*
 Are they each fitted with a discharge valve on the plating of the vessel *Yes*
M Batta for Robica Manufacturer.

What pipes are carried through the bunkers *None*
 How are they protected
 When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *April 15th 1878*
 Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilge *Yes*
 Is the screw shaft-tunnel water tight and fitted with a sluice door on bulkhead *Yes*

We hereby certify that the whole of the above are correct particulars of the Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel "*Gleniffer*" owned by *McGregor, Gow & Co* of the Port of *Glasgow* of *1412* Tons Register, and *250* Registered Horse Power, and that they have been carefully inspected and examined by me at *Hull and Sunderland* and found to be at this date, viz., *20th April* 18 *78* in good order and safe working condition.

Amount of Fee for Survey *£ 12: 10: 0*
 (Travelling Expenses, if any, £ 0: 10: 0) *£ 12: 15: 0* Received
11/5/78
A. W. Hyndell and William Allison
 Engineer Surveyors to Lloyd's Register of Shipping.
Hull and Sunderland

Hull and Sunderland No. 119444

180477-0470



The making of Boilers of this vessel are
fitted in accordance with the committee
requirements submitted that she is liable
to have the notifying Lloyd's M.P.
and a meeting certified for
20th April 1878

[Signature] 15.5.78

COOK & WOOD, CO. LONDON
DONKEY BOILER WORKS



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Foundation