

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Description *Single Compound Surface Cond.*
 Made by *Carr Shipbuilding & Engineering Co.*
 When *1878* At *Glasgow*
 Diameter of cylinder *2' 2 1/2" 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"*
 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*
 Description and size of Donkey Pumps ... *1 1/2" Ball and donkey. Vertical 10' dia. 10' stroke. Pump 6 3/4" dia.*
 Where do they pump from ... *Pump from sea from all hold-
and from both ballast tanks.
2 feed pumps. Vertical 8' 6" dia. 8' stroke.
2 feed pumps 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*
 Made by *Carr Shipbuilding & Engineering Co.*
 When *1878* At *Glasgow*
 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 Sea-ton & Cameron's Spring valves.
22"*
 No. of square feet of fire-grate surface in each boiler *Circular boiler 40, 60"
Doal " 33, 3"*
 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.

*Lyl. with 3 cross tubes,
stokehole,
5 lbs.*

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 1/4 area.*
 No. of square feet of fire grate *24*

ES, 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*

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*

M. Batta for Robt. A. Manufacturer. Except of the Donkey Boiler

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 *Glasgow* 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)

A. W. Hyndell and William Allison
 Engineer Surveyors to Lloyd's Register of Shipping.

Hull and Sunderland

The making of Boilers of this vessel are
fitted in accordance with the Committee
Requirements submitted that she is cleared
to have the notifiication signed M.P.
and is ready, certified for
20: April 1878

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Foundation