

20850

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Rev. 13/5/78

Description *Compound Inverted Direct Acting* Are all the bilge suction pipes fitted with roses *Yes*
 Made by *The London & Glasgow Engineering Co. Ltd.* No. of feed pumps *Two* and sizes *4" dia x 2 1/2" stroke*
 When *1878* At *Glasgow* What gauges are there attached to the engines and boilers ... *Three Steam, one Vacuum & one Compound*
 Diameter of cylinder *36" dia* Length of stroke *42"*
 No. of revolutions per minute *not ascertained*
 Point of cut off *Variable*
 Diameter of screw shaft *12"*
 Diameter of crank shaft journals *12"*
 Diameter of screw, ~~and paddle wheel~~ *16" x 9"*
 Pitch of screw *19 ft*
 No. of blades, *Four* Total surface *64 ft²*
 No. of bilge pumps *Two* and sizes *4" dia x 2 1/2" stroke*
 Do they pump from each compartment *Yes*
 Description and size of Donkey Pumps ... *Double Acting 3" x 10" stroke*
 Where do they pump from ... *From the Sea, Bilge & Hold & Ballast Tanks*
 No. of bilge injections *One* and sizes *4 1/4"*
 Are they connected to air, or circulating pumps *to Circulating*
 Is there a hand pump in the engine room *Yes*
 Can it be worked by the main engines *Yes*
 Is there a deck hose of sufficient length to reach to any part of the vessel *Yes*

MAIN BOILERS.

Number *Two* Description *Round Horizontal* Can the super-heater be shut off and the boilers worked separately *No*
 Made by *The London & Glasgow Engineering Co. Ltd.* Description and area of safety valves on each boiler ... *Two Direct Spring each 15" area*
 When *1878* At *Glasgow*
 Working pressure *40 lbs* No. of square feet of fire-grate surface in each boiler *54 ft²*
 Tested by hydraulic pressure to *140 lbs*, Date *July 25th 1878* Are there separate blow off and brine cocks on each boiler, independent of those on the vessel's skin *Yes*
 Description of super-heating apparatus *Reheater on each boiler, enclosed* Are all pipes, cocks, roses, and pumps in connection with the machinery accessible at all times *Yes*
 Can each boiler be worked separately *Yes*

DONKEY BOILER.

Description *Round Vertical* Tested by hydraulic pressure to *100 lbs*, Date *July 25th 1878*
 Where fixed *In Fore Storehold* Description and area of safety valves *Direct Spring 4" area*
 Working pressure *50 lbs* No. of square feet of fire grate *13 ft²*

PIPES, COCKS, AND CONNECTIONS.

Are all connections with the sea direct on the skin of the ship *Yes*
 Are they Kingston valves or common cocks ... *Screw down valves & cocks*
 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 *Yes*
 Are they each fitted with a discharge valve on the plating of the vessel *Yes*
 What pipes are carried through the bunkers *Main steam pipe & bilge pipes to forehold*
 How are they protected *Steam pipe has iron casing & bilge pipe is cased with wood*
 When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *on ship previous to being launched*
 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*

N. Kelly & Co. Glasgow Manufacturer.

I 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 "*Merionethshire*" owned by *J. J. Jenkins*
 of the Port of *London* of *1245* 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., *May 10th 1878* in good order and safe working condition.

Amount of Fee for Survey ... £12:10:00 paid

(Travelling Expenses, if any, £ ...)

James Morrison
Engineer Surveyor to Lloyd's Register of Shipping.

The Maching and Boilers of the vessel
are fitted in accordance with the
Committee requirements submitted that
she is eligible to have the notation
Sigs M.C. in the Register book
and a maching certificate -
June - 10th May 1878

MD

13.5.78



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Foundation