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LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Dec 21/3/78

Report (if any) on Hull of Vessel. Port Newcastle No. 1389

Description Vertical Compound
 Made by John Shaw & Co
 When March 1878 At Low Walker
 Diameter of cylinders 32 x 62 Length of stroke 42
 No. of revolutions per minute 60
 Point of cut off 7/8
 Diameter of screw shaft 10 1/2
 Diameter of crank shaft journals 10 3/4
 Diameter of screw, ~~or of paddle wheel~~ 16 ft
 Pitch of screw 16 to 19 ft
 No. of blades, 4 Total surface 58 1/2 ft
 No. of bilge pumps 2 and sizes 4 1/2 x 2 1/2
 Do they pump from each compartment yes

Are all the bilge suction pipes fitted with roses yes
 No. of feed pumps 2 and sizes 4 1/2 x 2 1/2
 What gauges are there attached to the engines and boilers ... 1 Steam & 1 Coas in Engine Room. 2 Steam in Stoke hole
 Description and size of Donkey Pumps ... One 10" dia x 9" stroke 8" pump
 " 6" x 6" "
 " 4 1/2" x 4 1/2" " (Donkey boiler)
 " 2 1/2" "
 Where do they pump from ... Main Hold, Engine Room
Well in aft Hold, well in tunnel,
 No. of bilge injections one and sizes 3 1/2" & 2"
 Are they connected to air, or circulating pumps air
 Is there a hand pump in the engine room no
 Can it be worked by the main engines Donkey can be worked
 Is there a deck hose of sufficient length to reach to any part of the vessel } yes by hand

MAIN BOILERS.

Number Two Description Cylindrical
 Made by John Shaw & Co
 When March 1878 At Low Walker
 Working pressure 75 lbs
 Tested by hydraulic pressure to 150 lbs, Date 23/1/78
 Description of super-heating apparatus none
 Can each boiler be worked separately yes

Can the super-heater be shut off and the boilers worked separately } no superheater
 Description and area of safety valves on each boiler 2 Spring valves 4 1/2 dia
2 1/2" x 7 1/2" orum 3/4", closes 7/1
= 2 5/8 x 4 inches
 No. of square feet of fire-grate surface in each boiler } 58
 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.

Description Vertical
 Where fixed Stoke hole
 Working pressure 45 lbs

Tested by hydraulic pressure to 90 lbs, Date 19/1/78
 Description and area of safety valves 1 Spring 3 1/2" = 8 1/4 Sq in
 No. of square feet of fire grate 17

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 ... } 11 Kingston & 4 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 } above
 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 } now
 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

Keystone Engine Works Manufacturer.
(Newcastle)

I hereby certify that the whole of the above are correct particulars of the Machinery and Boilers of the Iron (or Wood)

Screw (~~or Rank~~) Steam Vessel Compton owned by W. J. D. Millburn
 of the Port of Newcastle of 1106.4 Tons Register, and 200 Registered Horse Power,
 and that they have been carefully inspected and examined by me at Low Walker, Newcastle-on-Tyne
 and found to be at this date, viz., 17th March 1878 in good order and safe working condition.

Amount of Fee for Survey ... £ 10:0:0 paid by John Shaw & Co
 (Travelling Expenses, if any, £ 0:0:0)
John Shaw & Co
20/3/78

John Prosser
 Engineer Surveyor to Lloyd's Register of Shipping.
North Shields