

20750 *Iron*

IRON 477-0377

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

Rec 18/4/78

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Description *Vertical Compound*
 Made by *Black Hawthorn & Co*
 When *March 1878* At *Newcastle*
 Diameter of cylinders *20 1/2"* Length of stroke *27"*
 No. of revolutions per minute *about 90*
 Point of cut off *5/8*
 Diameter of screw shaft *6 1/2*
 Diameter of crank shaft journals *6 1/2*
 Diameter of screw, or of paddle wheel *10 ft - 6 in*
 Pitch of screw *13 ft - 0 in*
 No. of blades, *4* Total surface *27 ft²*
 No. of bilge pumps *2* and sizes *2 3/8" x 13 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 *2 3/8" x 13 1/2"*
 What gauges are there attached to the engines and boilers ... *1 Steam Engine Room*
1 Case
 Description and size of *feed donkey 2 1/2" double acting*
 Donkey Pumps ... *Ballast donkey 4 1/2" double acting*
 Where do they pump from *Main Hold, Main Tank,*
Fore peak tank, Engine Room
 No. of bilge injections *one* and sizes *3 inches*
 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 *one* Description *Cylindrical*
 Made by *Black Hawthorn & Co*
 When *March 1878* At *Newcastle*
 Working pressure *60 lbs*
 Tested by hydraulic pressure to *120 lbs*, Date *14/2/78*
 Description of super-heating apparatus *Receiver partially in uptake*
 Can each boiler be worked separately *one boiler*

Can the super-heater be shut off and the boilers worked separately *no*
 Description and area of safety valves on each boiler *2 valves 4 1/4" diam*
= 28" area, lower & weight
 No. of square feet of fire-grate surface in each boiler *32 sq feet*
 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 Cylindrical*
 Where fixed *Stokehold*
 Working pressure *60 lbs*

Tested by hydraulic pressure to *120 lbs* Certificate *6/3/78*
 Description and area of safety valves *1 Valve 2" diam = 3 1/4" area*
 No. of square feet of fire grate *6 ft* *lower & weight*

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 ... *1 Kingston & 3 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 *new*
 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 *no tunnel, fore end of stern pipe in Engine Room*

for *Black Hawthorn* Manufacturer.
W. Hallan

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 *"Reveil"* owned by *Jules & Amy fils*
 of the Port of *Caen* of *300.46* Tons Register, and *Sixty* Registered Horse Power,
 and that they have been carefully inspected and examined by me at *Newcastle*
 and found to be at this date, viz., *4th April* 18*78*. in good order and safe working condition.

Amount of Fee for Survey ... £ *3 : 0 : 0* Recd by *W. Young*
 (Travelling Expenses, if any, £ *0 : 5 : 0*)
17/4/78.

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

It is submitted that this vessel
is eligible to have certificate
granted and Lloyd's M.C.
recorded

M 18/4/78



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