

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 *10ft 6in*  
 Pitch of screw *13ft 0in*  
 No. of blades, *4* Total surface *27 ft<sup>2</sup>*  
 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 boom*  
*1 Case*  
 Description and size of Donkey Pumps ...  
*feed donkey 2 1/2" double acting*  
*Ballast donkey 4 1/2" double acting*  
 Where do they pump from ...  
*Main Hold, Main Tank,*  
*Fore peak tank, Engine boom*  
 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 } *92 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 lb Certificate 6/3/78*  
 Description and area of safety valves *1 valve 2" diam = 3.14 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 boom*

for *Black Hawthorn* Manufacturer.  
*W. Allan*

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 Pitt* 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., *4<sup>th</sup> April* 18*78*, in good order and safe working condition.

Amount of Fee for Survey ... £ *3:0:0* Recd by *John Prockat*  
 (Travelling Expenses, if any, £ *0:5:0*) } *W. Allan* Engineer Surveyor to Lloyd's Register of Shipping.  
*North Shields*

Report (if any) on Hull of Vessel.  
 Port *Newcastle*  
 No. *13935*  
 Serial Number



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

M 18/4/78

1911-11-11



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