

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Rec 6/7/67

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

Description *Compound Inverted*
 Made by *Samuelson*
 When *18 70* At *Hull*
 Diameter of cylinder *30, 54 3/4* Length of stroke *24"*
 No. of revolutions per minute *60*
 Point of cut off *5/8 of stroke*
 Diameter of screw shaft *8 1/8*
 Diameter of crank shaft journals *8 1/8*
 Diameter of screw, or of paddle wheel *10" 6*
 Pitch of screw *15. 6.*
 No. of blades, *4* Total surface *✓*
 No. of bilge pumps *2* and sizes *4 1/2 x 12*
 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 12*
 What gauges are there attached to the engines and boilers ... } *true in engine room*
 } *one on each boiler*
 Description and size of Donkey Pumps ... } *Inverted*
 } *4" dia 8" stroke*
 Where do they pump from ... } *Forward Bilges*
 No. of bilge injections *one* and sizes *3 1/4*
 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 *Two* Description *Cylindrical*
 Made by *C. S. Holmes*
 When *18 74* At *Hull*
 Working pressure *60 lbs*
 Tested by hydraulic pressure to *120 lbs*, Date
 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 } *none*
 Description and area of safety valves on each boiler ... } *Two valves, Lever & weight*
 } *21. 36 sq inches*
 No. of square feet of fire-grate surface in each boiler } *26 sq ft.*
 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 *on Deck*
 Working pressure *40 lbs*

Tested by hydraulic pressure to *100 lbs.*, Date *Feb 74*
 Description and area of safety valves *D.W. 4.9 sq ins*
 No. of square feet of fire grate *7.5 sq ft.*

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 ... } *Common 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 } *No.*

What pipes are carried through the bunkers *Discharge pipes from bilge pump & body*
 How are they protected *iron casing*
 When were the stern tube, propeller, screw shaft, and all connections examined in dry dock } *All new 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 } *No.*

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 *Annie* owned by *Goble Steam Ship Co.* of the Port of *Goble* of *330* Tons Register, and *98* Registered Horse Power, and that they have been carefully inspected and examined by me at *Hull* and found to be at this date, viz., *April 20th* 18 *76* in good order and safe working condition.

Fee - *3. 3. 0*
 Coops - *2. 7. 1*
 £ *5. 10. 1*

William Parker
 Engineer Surveyor to Lloyd's Register of Shipping.



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