

1525 Glen

Stockton 6867

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S CERTIFICATE & REPORT.

Rec 21/10/95

ENGINES.

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

Description *Compound, Inverted, Direct Acting.*
 Made by *James Caird & Co. Greenock*
 In the year *1845*
 Present condition *New*
 Diameter of cylinders *25" & 50" (One of each)*
 Length of stroke *30"*
 No. of revolutions per minute *80*
 Point of cut off *7/8 of stroke*
 Paddle, or Screw *Screw*
 Nominal Horse Power *100*
 Diameter of screw, or of paddle wheel *10 ft.*
 Pitch of screw *14 ft.*
 No. of blades, *4* total surface *60 sq. feet.*
 No. of bilge pumps *2* and size *4 3/8" dia. x 12 1/2" stroke*
 Do they pump from each compartment *Yes*
 Is there provision made for pumping from the wings of the stoke hold *Yes*

Are all the bilge suction pipes fitted with roses *Yes*
 What vacuum and steam gauges are there attached to the engines and boilers... *One Vacuum, One Compound, One Steam Gauge*
 No. of feed pumps *2* and sizes *4 3/8" dia. x 12 1/2" stroke*
 Description and size of Donkey Engine... *Inverted double acting 3" x 6" stroke*
 Will it feed the boilers, pump from the bilges, and pump on deck... *Yes*
 Can it be driven by steam from a separate boiler *Yes*
 No. of bilge injections *One* and sizes *2 3/4" Connected to Air pumps*
 Are they fitted with non return valves *Yes*
 Is there a hand pump in the engine room *Yes*
 Can it be worked by the main engines *No*
 Is there a deck hose of sufficient length to reach to any part of the vessel *Yes*

CONNECTIONS ON HULL.

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... *The Blow off Cocks are under plates*
 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*

Are any pipes carried through the bunkers *No*
 If so state how protected
 When was the stern tube, propeller, screw shaft, and all connections examined in dry dock *Previous to being launched*
 How are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilge *Intermediate, Sea & Bilge Suction Cocks on Donkey has single ported plug*
 Have the bilge suctions non-return valves fitted or not *No*

BOILERS.

Number *1*
 Description *One, Flat Sided, Horizontal with 3 Furnaces fired from aft*
 Made by *Caird & Co.*
 In the year *1845*
 Present condition *New*
 When last extensively repaired
 Working pressure *65 lbs*
 When tested by hydraulic pressure *12th August.*
 To what pressure tested *130 lbs*
 Any super-heating apparatus *No*
 Describe it
 Can each boiler be worked separately *One Boiler*
 Is each boiler fitted with a separate steam gauge *One Gauge*
Caird & Co. Manufacturer.

Can the super-heater be shut off and the boilers worked separately
 No. of safety valves on each boiler *Two*
 Description and area of each safety valve *Lever with weights, 21.64 area*
 No. of square feet of fire-grate surface in each boiler *55 sq. ft.*
 Is there a separate blow off and brine cock on each boiler, independent of those on the vessel's skin *Yes*
 Is the screw shaft tunnel water tight and fitted with a sluice door on bulkhead *Yes*
 Are all pipes, cocks, and roses in connection with these boilers accessible to the engineer at all times *Yes, they are all fitted above the turn of Bilge, except blow off cocks which have hand holes with covers fitted*

I hereby certify that the whole of the above Machinery and Boilers of the Iron ~~(or Wood)~~ Screw ~~(or Paddle)~~ Steam Vessel *"John Schoning"* owned by *Arent Schoning Sommer* of the Port of *Gröto* of *41 1/4* Tons Register, and *100* Nominal Horse Power, have been carefully inspected and examined by *me* at *Greenock* and found to be at this date, viz., *Oct. 20th* 18 *45* in good order and safe working condition.

See paid £5.0.0
Aut. M. E.
M. W.

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