

- 14849 Iron.

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S CERTIFICATE.

Rev 8/7/75

ENGINES.

Description *Common Inverted Surface Condensing*
 Made by *Messrs Palmers & Co.*
 In the year *1870*
 Present condition *good*
 Diameter of cylinder *43*
 Length of stroke *33*
 No. of revolutions per minute *About 65*
 Point of cut off
 Paddle, or Screw *Screw*
 Nominal Horse Power *120*
 Diameter of screw, or of paddle wheel *13.0*
 Pitch of screw *15.0*
 No. of blades, *4*, total surface *43 sq. ft*
 No. of bilge pumps *2* and size *5 1/2 dia x 10 stroke single*
 Do they pump from each compartment *from engine room only*
 Is there provision made for pumping from the wings of the stoke hole } *No*

Are all the bilge suction pipes fitted with roses *yes*
 What vacuum and steam gauges are there attached to the engines } *1. steam gauge at each end of Boilers, Common to both boilers, with cocks to suit and boilers. 1. Vacuum gauge on Condenser.*
 No. of feed pumps *2* and sizes *5 1/2 dia x 10 stroke single acting*
 Description and size of } *Smoked 8 dia x 8 stroke Donkey Engine... Pump 4 x 8 double acting*
 Will it feed the boilers, pump from the bilges, and pump on deck } *yes*
 Can it be driven by steam from a separate boiler } *No*
 No. of bilge injections *one* and sizes *6 1/2 diameter*
 Are they fitted with non return valves } *yes*
 Is there a hand pump in the engine room } *No (Donkey can be used as such)*
 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 } *No*
 Are they Kingston valves or common cocks } *Kingston & Common valves, Hocks*
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehole plates } *No*
 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 } *yes*
 If so state how protected } *large square recess*
 When was the stern tube, propeller, screw shaft, and all connections examined in dry dock } *May 1875*
 How are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilge } *water can be run in at ballast Donkey life suction, (see sketch)*
 Have the bilge suction non-return valves fitted or not } *not fitted*

BOILERS.

Number *Two*
 Description *Coal*
 Made by *Messrs Palmers & Co.*
 In the year *1875*
 Present condition *good*
 When last extensively repaired *new*
 Working pressure *40 lbs per sq. inch*
 When tested by Hydraulic pressure
 To what pressure tested *75 lbs per sq. inch*
 Any super-heating apparatus *Steam domes in uptake*
 Describe it *domes riveted on top of Boiler, encased with bottom of chimney*
 Can each boiler be worked separately } *yes*
 Is each boiler fitted with a separate steam gauge } *2 gauges common to the 2 boilers with cocks to each boiler*

Can the super-heater be shut off and the boilers worked separately } *These domes cannot be shut off*
 No. of safety valves on each boiler *2*
 Description and area of each safety valve *Lever & weight valves 3 1/2 dia 9.6 sq. in.*
 No. of square feet of fire-grate surface in each boiler } *45*
 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 } *No tunnel, (Engines close aft)*
 Are all pipes, cocks, and roses in connection with these boilers accessible to the engineer at all times } *yes*

Thos. Smith Manufacturer.

FOR *Palmers Shipbuilding & Iron*

Company Limited hereby certify that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle)

Steam Vessel *"Lord Alfred Paget"* owned by *Messrs Stephenson, Clark & Co.*
 of the Port of *London*, of *621* Tons Register, and *120* Nominal Horse Power,
 have been carefully inspected and examined by *me* at *Warrow* and found to be
 at this date, viz., *July 7th 1875* in good order and working condition.

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