

14907 Jun

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S CERTIFICATE, & REPORT. ENGINES.

Rec 9/8/75

Description *Diagonal, Compound Surface Condensing,*
 Made by *Messrs Thomson & Co Newcastle,*
 In the year *1875,*
 Present condition *good,*
 Diameter of cylinder *5. L.P. 78, H.P. 42,*
 Length of stroke *6 feet,*
 No. of revolutions per minute *26,*
 Point of cut off *45% (no expansion valve)*
 Paddle, or Screw *Paddle,*
 Nominal Horse Power *250,*
 Diameter of screw, or of paddle wheel *18.6 Outside of Hub. Overall 22ft*
 Pitch of screw
 No. of blades, total surface
 No. of bilge pumps *2* and size *8 dia x 15 stroke single acting,*
 Do they pump from which compartment *from engine room only,*
 Is there provision for pumping from the wing to the stoke hole *yes,*

Are all the bilge suction pipes fitted with roses *yes*
 What vacuum and steam gauges are there attached to the engines and boilers *1 & each Boiler for steam pressure, 1 in Engine room do, 1 vacuum gauge in engine room, Compound do,*
 No. of feed pumps *2* and sizes *8" dia x 15 stroke single acting,*
 Description and size of Donkey Engine... *Inverted Cyl 8" dia x 8 stroke, Pump 5" x 8" double acting,*
 Will it feed the boilers, pump from the bilges, and pump on deck *yes. (draws from bilges of fore & aft Holds)*
 Can it be driven by steam from a separate boiler *yes,*
 No. of bilge injections *one* and sizes *3" dia. (to air pump),*
 Are they fitted with non return valves *no (a cock),*
 Is there a hand pump in the engine room *(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 side of the ship *yes,*
 Are they Kingstons or common cocks *Common Valves & Cocks,*
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehole plates *all except Blow off Cocks,*
 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
 How are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilge *angle Cocks & non return valves,*
 Have the bilge suction non-return valves fitted or not *not fitted,*

BOILERS.

Number *4,*
 Description *Cylindrical,*
 Made by *Messrs Thomson & Co Newcastle,*
 Year *1875,*
 Present condition *good,*
 Last extensively repaired *new,*
 Working pressure *65 lbs.*
 Tested by Hydraulic pressure *May 1875*
 What pressure tested *130,*
 Super-heating apparatus *yes,*
 Describe it *2 Horizontal domes in bottom of Chimney of aft boiler,*
 Can each boiler be worked separately *yes,*
 Is each boiler fitted with a separate steam gauge *yes,*

Can the super-heater be shut off and the boilers worked separately *no,*
 No. of safety valves on each boiler *2,*
 Description and area of each safety valve *spring valves 3" dia. 10" 3,*
 No. of square feet of fire-grate surface in each boiler *41,*
 Is there a separate blow off and brine cock on each boiler, independent of those on the vessel's skin *yes. (Blow off & Blow off valve & Cock on ship's bottom,*
 Is the screw shaft tunnel water tight and fitted with a sluice door on bulkhead
 Are all pipes, cocks, and roses in connection with these boilers accessible to the engineer at all times *yes,*

Thompson & Co Manufacturer.

I hereby certify that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel "*Baron Cay*" owned by *Antwerp Steam Shipping Co.* of the Port of *Antwerp* of *572* Tons Register, and *250* Nominal Horse Power, have been carefully inspected and examined by *me* at *Low Walker on Tyne* and found to be at this date, viz., *July 15th* 18 *75,* in good order and safe working condition.

William Allison,
 Engineer Surveyor to Lloyd's Register of Shipping.

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For W Parker

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