

REPORT ON MACHINERY.

No. 46823

No. 21729

WED. 20 APR 1904

Port of

Sunderland

Received at London Office

19

No. in Survey held at Sunderland

Date, first Survey 17th Sept '03 Last Survey 11th Mar. 1904

Reg. Book.

(Number of Visits 24)

on the Steamer S. "Gloriana" now "Agincourt"

Tons { Gross 4232.
Net 2768.

Master J. H. Wainwright Built at Newcastle By whom built Northumberland S. S. Co. Ltd When built 1904

Engines made at Sunderland By whom made Richardson, Wigham & Co. Ltd when made 1904

Boilers made at Sunderland By whom made Richardson, Wigham & Co. Ltd when made 1904

Registered Horse Power Owners Agincourt Steamship Co. Ltd Port belonging to London.

Nom. Horse Power as per Section 28 372.5 Is Refrigerating Machinery fitted No Is Electric Light fitted No

ENGINES, &c.—Description of Engines Tri. compound surface condensing No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 25" - 41" - 69" Length of Stroke 48" Revs. per minute 65 Dia. of Screw shaft as per rule 14.8" Material of screw shaft W. S.
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube No Is the after end of the liner made water tight
 in the propeller boss No If the liner is in more than one length are the joints burned No If the liner does not fit tightly at the part
 between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive No If two
 liners are fitted, is the shaft lapped or protected between the liners No Length of stern bush 5' - 1 1/2"
 Dia. of Tunnel shaft as per rule 12.69" Dia. of Crank shaft journals as per rule 13.33" Dia. of Crank pin 14" Size of Crank webs 20 1/2" x 8 1/2" Dia. of thrust shaft under
 collars 14" Dia. of screw 17" - 0" Pitch of screw 17" - 0" No. of blades 4 State whether moveable No Total surface 85 1/2"
 No. of Feed pumps 2 Diameter of ditto 3 1/4" Stroke 27" Can one be overhauled while the other is at work Yes
 No. of Bilge pumps 2 Diameter of ditto 4" Stroke 27" Can one be overhauled while the other is at work Yes
 No. of Donkey Engines 2 Sizes of Pumps 11" x 10" + 6 1/2" x 4" x 6" No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 4 of 3 1/2" In Holds, &c. 2 of 3 1/2" in each hold.

No. of bilge injections 1 sizes 5" Connected to condenser, or to circulating pump C. P. Is a separate donkey suction fitted in Engine room & size Yes 4"
 Are all the bilge suction pipes fitted with roses Yes Are the roses in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible —
 Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Both
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes Are the discharge pipes above or below the deep water line Above
 Are they each fitted with a discharge valve always accessible on the plating of the vessel Yes Are the blow off cocks fitted with a spigot and brass covering plate Yes
 What pipes are carried through the bunkers None How are they protected —
 Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times Yes
 Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges Yes
 When were stern tube, propeller, screw shaft, and all connections examined in dry dock New and Is the screw shaft tunnel watertight Yes
 Is it fitted with a watertight door Yes worked from Top platform

BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 5940 1/2 Is forced draft fitted No
 No. and Description of Boilers Three single ended multitubular Working Pressure 180 lbs. Tested by hydraulic pressure to 360 lbs.
 Date of test 25/2/04 Can each boiler be worked separately Yes Area of fire grate in each boiler 50 1/2" No. and Description of safety valves to
 each boiler 2 Spring Area of each valve 7.07" Pressure to which they are adjusted 185 lbs. Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 1' - 6" Mean dia. of boilers 14' - 0" Length 10' - 9" Material of shell plates Steel
 Thickness 1 1/4" Range of tensile strength 28 1/2 - 32 Are they welded or flanged No Descrip. of riveting: cir. seams D.R.L. long. seams T.R.D.B.S.
 Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 8 3/4" Lap of plates on width of butt straps 15 1/2"
 Per centages of strength of longitudinal joint rivets 87.38 Working pressure of shell by rules 202.7 lbs. Size of manhole in shell 16" x 12"
 plate 85.35 No. and Description of Furnaces in each boiler 3 Morrison Material Steel Outside diameter 3' - 7 1/4"
 Size of compensating ring Flanged Length of plain part top Thickness of plates crown 17/32 Description of longitudinal joint Weld No. of strengthening rings —
 bottom Thickness 3/4" Working pressure of furnace by the rules 189 lbs. Combustion chamber plates: Material Steel Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 3/4"
 Pitch of stays to ditto: Sides 8" x 8" Back 8" x 8" Top 8" x 7 1/2" If stays are fitted with nuts or riveted heads Yes + Washers Working pressure by rules 211 lbs.
 Material of stays Steel Area supported by each stay 64" Working pressure by rules 187 lbs. End plates in steam space: —
 Material Steel Thickness 1 1/2" Pitch of stays 15" x 14" How are stays secured D.N.W. Working pressure by rules 187 lbs. Material of stays Steel
 Area supported by each stay 210" Working pressure by rules 240 lbs. Material of Front plates at bottom Steel
 Thickness 3/4" Material of Lower back plate Steel Thickness 3/4" Greatest pitch of stays 15" Working pressure of plate by rules 269 lbs.
 Diameter of tubes 3 1/2" Pitch of tubes 4 1/2" x 4 1/2" Material of tube plates Steel Thickness: Front 3/4" Back 27/32 Mean pitch of stays 9" x 8 1/2"
 Pitch across wide water spaces 14 1/2" Working pressures by rules 192 lbs. Girders to Chamber tops: Material Steel Depth and
 thickness of girder at centre 8 1/2" x 1 1/2" Length as per rule 28 1/2" Distance apart 7 1/2" Number and pitch of Stays in each 2 of 8"
 Working pressure by rules 242 lbs. Superheater or Steam chest; how connected to boiler None Can the superheater be shut off and the boiler worked
 separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet
 holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed
 Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

DONKEY BOILER— No. *None* Description

Made at *None* By whom made *None* When made *None* Where fixed *None*
 Working pressure *None* tested by hydraulic pressure to *None* No. of Certificate *None* Fire grate area *None* Description of safety valves *None*
 No. of safety valves *None* Area of each *None* Pressure to which they are adjusted *None* If fitted with easing gear *None* If steam from main boilers can enter the donkey boiler *None*
 Dia. of donkey boiler *None* Length *None* Material of shell plates *None* Thickness *None* Range of tensile strength *None*
 Descrip. of riveting long. seams *None* Dia. of rivet holes *None* Whether punched or drilled *None* Pitch of rivets *None*
 Lap of plating *None* Per centage of strength of joint *None* Rivets *None* Thickness of shell crown plates *None* Radius of do. *None* No. of Stays to do. *None*
 Dia. of stays *None* Diameter of furnace Top *None* Bottom *None* Length of furnace *None* Thickness of furnace plates *None* Description of joint *None*
 Thickness of furnace crown plates *None* Stayed by *None* Working pressure of shell by rules *None*
 Working pressure of furnace by rules *None* Diameter of uptake *None* Thickness of uptake plates *None* Thickness of water tubes *None*

SPARE GEAR. State the articles supplied:— *Propeller, top & bottom end connecting rod bolts & nuts, 2 main bearing bolts & nuts, set of coupling bolts, field & bilge pump valves, bolts, nuts & iron axles.*

The foregoing is a correct description,

RICHARDSONS, WESTGARTH & CO., LTD

Manufacturers

Frederic S. Russell CHIEF DRAUGHTSMAN

Dates of Survey while building { During progress of work in shops - - 1903- Sep 17 Oct 16 Dec 10 16 23 - 1904- Jan 8 11 12 14 21 27 Feb 1 3
 { During erection on board vessel - - 9 16 17 20 25 29 Mar 2 4 7 10 11
 Total No. of s *24*

Is the approved plan of main boiler forwarded herewith *Yes*
 " " " donkey " " " *None*

General Remarks (State quality of workmanship, opinions as to class, &c. *The machinery of this vessel has been built under special survey, the material & workmanship are good, the boiler & steam pipes were tested by hydraulic pressure to double the working pressure; the whole of the machinery worked well & the safety valves were adjusted under steam as stated above.*

This vessel in my opinion is eligible to have the notation of L.M.C. 3.04 in the Register Book.

It is submitted that
 this vessel is eligible for
THE RECORD L.M.C. 3.04

ms
 20.4.04

ES
 20.4.04

The amount of Entry Fee... £ *3* : : When applied for, *18.3.1904*
 Special ... £ *38* : *12* : :
 Donkey Boiler Fee ... £ : : When received, *20.4.04*
 Travelling Expenses (if any) £ : : *22.3.1904*

G. Williamson
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute

FRI. 22 APR 1904

Assigned

+ L.M.C. 3.04

MACHINERY CERTIFICATE
 WRITTEN.



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 Foundation