

## REPORT ON MACHINERY.

No. 21953

Port of Glasgow

No. in Survey held at Glasgow  
Reg. Book. 10 on the S.S. "G. PLAYER"Date, first Survey 10th Nov 1903 Last Survey 13th July 1904.  
(Number of Visits 33.)

Received at London Office TUES. 26 JUL 1904

Master *N. George* Built at *Groon* By whom built *Ailsa S. B. Co.*  
 Engines made at *Glasgow* By whom made *Muir & Houston Ltd.*  
 Boilers made at *Glasgow* By whom made *Muir & Houston Ltd.*  
 Registered Horse Power *125* Owners *Player & Co. Ltd. (G. Player)* Port belonging to *Lignmouth*  
 Nom. Horse Power as per Section 28 *125* Is Refrigerating Machinery fitted *No.* Is Electric Light fitted *No.*

Tons { Gross 667  
Net 243  
When built 1904.

when made 1904.  
when made 1904.

ENGINES, &c.—Description of Engines *Compound - Screw* No. of Cylinders *2* No. of Cranks *2*  
 Dia. of Cylinders *21" x 45"* Length of Stroke *30"* Revs. per minute *92* Dia. of Screw shaft *as per rule 9.49* Material of screw shaft *iron*  
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube *yes* Is the after end of the liner made water tight  
 in the propeller boss *yes* If the liner is in more than one length are the joints burned *yes* 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 *✓* If two  
 liners are fitted, is the shaft lapped or protected between the liners *✓* Length of stern bush *3' 3 1/2"*  
 Dia. of Tunnel shaft *as per rule 8.87* Dia. of Crank shaft journals *as per rule 9.31* Dia. of Crank pin *9 5/8"* Size of Crank webs *5 3/4"* Dia. of thrust shaft under  
 collars *9 5/8"* Dia. of screw *10.6"* Pitch of screw *13.6"* No. of blades *4* State whether moveable *no* Total surface *38 sq. ft.*  
 No. of Feed pumps *2* Diameter of ditto *2 3/4"* Stroke *15"* Can one be overhauled while the other is at work *yes*  
 No. of Bilge pumps *2* Diameter of ditto *3"* Stroke *15"* Can one be overhauled while the other is at work *yes*  
 No. of Donkey Engines *3* Sizes of Pumps *6 x 4 1/4 x 6 - 4 x 2 3/4 x 6* No. and size of Suctions connected to both Bilge and Donkey pumps  
 In Engine Room *Two 2 1/2" dia.* In Holds, &c. *Two 2" dia.*  
 No. of bilge injections *1* sizes *3 1/2"* Connected to condenser, or to circulating pump *yes* Is a separate donkey suction fitted in Engine room & size *yes 2 1/2"*  
 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 *none*  
 Are all connections with the sea direct on the skin of the ship *yes* Are they Valves or Cocks *Valves & cocks*  
 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 *before launch* Is the screw shaft tunnel watertight *none*  
 Is it fitted with a watertight door *✓* worked from *✓*

BOILERS, &c.—(Letter for record *15*) Total Heating Surface of Boilers *2240 sq. ft.* Is forced draft fitted *no*  
 No. and Description of Boilers *One single ended* Working Pressure *140 lbs* Tested by hydraulic pressure to *280 lbs*  
 Date of test *16/5/04* Can each boiler be worked separately *✓* Area of fire grate in each boiler *68 sq. ft.* No. and Description of safety valves to  
 each boiler *2 patent spring* Area of each valve *8.29 sq. in.* Pressure to which they are adjusted *144 lbs* Are they fitted with easing gear *yes*  
 Smallest distance between boilers or uptakes and bunkers or woodwork *3' 6"* Mean dia. of boilers *15.3"* Length *11.0"* Material of shell plates *steel*  
 Thickness *1"* Range of tensile strength *28 to 32* Are they welded or flanged *no* Descrip. of riveting: cir. seams *double* long. seams *treble*  
 Diameter of rivet holes in long. seams *1 1/8"* Pitch of rivets *7 1/2"* Lap of plates on width of butt straps *1.5"*  
 Per centages of strength of longitudinal joint rivets *98* plate *85* Working pressure of shell by rules *141 lbs* Size of manhole in shell *16" x 12"*  
 Size of compensating ring *M. Heils* No. and Description of Furnaces in each boiler *3 plain* Material *steel* Outside diameter *3' 11"*  
 Length of plain part top *6' 6"* bottom *6' 0"* Thickness of plates crown *3 3/32"* bottom *2 3/32"* Description of longitudinal joint *welded* No. of strengthening rings *4 partial*  
 Working pressure of furnace by the rules *160 lbs* Combustion chamber plates: Material *steel* Thickness: Sides *9/16"* Back *9/16"* Top *9/16"* Bottom *3/32"*  
 Pitch of stays to ditto: Sides *8 1/2" x 8 1/2"* Back *8 1/2" x 8 1/2"* Top *8 1/2" x 7 1/2"* If stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *151 lbs*  
 Material of stays *steel* Diameter at smallest part *1.45"* Area supported by each stay *72.2 sq. in.* Working pressure by rules *160 lbs* End plates in steam space:  
 Material *steel* Thickness *29/32"* Pitch of stays *15 x 15* How are stays secured *nuts* Working pressure by rules *173 lbs* Material of stays *steel*  
 Diameter at smallest part *3.26"* Area supported by each stay *225 sq. in.* Working pressure by rules *145 lbs* Material of Front plates at bottom *steel*  
 Thickness *3/4"* Material of Lower back plate *steel* Thickness *3/4"* Greatest pitch of stays *13 x 8 1/2"* Working pressure of plate by rules *160 lbs*  
 Diameter of tubes *3 1/2"* Pitch of tubes *4 3/4" x 4 3/4"* Material of tube plates *steel* Thickness: Front *29/32"* Back *1/16"* Mean pitch of stays *9 1/2"*  
 Pitch across wide water spaces *14 1/2"* Working pressures by rules *140 lbs* Girders to Chamber tops: Material *steel* Depth and  
 thickness of girder at centre *8 x 2 - 7/8"* Length as per rule *36"* Distance apart *7 1/2"* Number and pitch of Stays in each *3 - 8 1/2"*  
 Working pressure by rules *230 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 *✓*



SPARE GEAR. State the articles supplied:— Two top end & two bottom end connecting rod bolts; two main bearing bolts; one set of coupling bolts; & one set of feed & bilge pump valves. Etc.

*Manufacturer.*

donkey " " " " yes.

In my opinion, it is eligible to be classed in the  
Register Book with the record of ✠ L.M.C. 7.04.

It is submitted that  
this vessel is eligible for  
THE RECORD. H L M C. 7. OH

24.4.02

27.7.04

*J. W. Dimmock.*  
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

*Assigned*

+ LMB 7.04. 18

~~When fee is paid~~

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Foundation