

REPORT ON MACHINERY.

Port of *Glasgow*Received at London Office *FRI. 21 APR 1899*No. in Survey held at *Glasgow*
Reg. Book.Date, first Survey *14. Feby 1898*Last Survey *13 April 1899*(Number of Visits *73*)Gross
TonsWhen built *1899*Master *John McEneaney* Built at *Port Glasgow* By whom built *A. Rodger & Co*Engines made at *Glasgow* By whom made *Hall Brown & Batty & Co* when made *1899*Boilers made at *Glasgow* By whom made *Lindsay & Burnie & Co* when made *1899*

Registered Horse Power

Owners

Port belonging to

Nom. Horse Power as per Section 28 *250*Is Refrigerating Machinery fitted *no*Is Electric Light fitted *no*

ENGINES, &c.—Description of Engines

Triple expansion No. of Cylinders *three* No. of Cranks *3*
 Dia. of Cylinders *22½ x 37-61* Length of Stroke *42* Revs. per minute *89* Dia. of Screw shaft *as per rule 11½* Lgth. of stern bush *46"*
 Dia. of Tunnel shaft *as per rule 10½* Dia. of Crank shaft journals *as per rule 10½* Dia. of Crank pin *11½* Size of Crank webs *7½ x 2½* Dia. of thrust shaft under collars *11½* Dia. of screw *18-9* Pitch of screw *18-6* No. of blades *4* State whether moveable *no* Total surface *76.5 sq ft*
 No. of Feed pumps *two* Diameter of ditto *3½* Stroke *21"* Can one be overhauled while the other is at work *yes*
 No. of Bilge pumps *two* Diameter of ditto *3½* Stroke *21"* Can one be overhauled while the other is at work *yes*
 No. of Donkey Engines *two* Sizes of Pumps *6 x 4 x 6 & 10 x 10 x 15* No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room *three 3" + one 3½"* In Holds, &c. *one 3" + one in tunnel well*

No. of bilge injections *1* sizes *6* Connected to condenser, or to circulating pump *pump is a separate donkey suction fitted in Engine room & size 3½"*
 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 *yes*
 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*
 That pipes are carried through the bunkers *yes* How are they protected *by iron plates*
 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 *apparently*
 Is it fitted with a watertight door *yes* worked from *top platform*

BOILERS, &c.—

(Letter for record *S*)Total Heating Surface of Boilers *3862 sq ft*Is forced draft fitted *no*

No. and Description of Boilers

2 single ended cylindrical Working Pressure *160* Tested by hydraulic pressure to *320*
 Date of test *14/2/95* Can each boiler be worked separately *yes* Area of fire grate in each boiler *46 sq ft* No. and Description of safety valves to each boiler *one pair direct spring* of each valve *5-93* Pressure to which they are adjusted *165 lbs* Are they fitted with easing gear *yes*
 Smallest distance between boilers or uptakes and bunkers or woodwork *9"* Mean dia. of boilers *18-0* Length *10-6* Material of shell plates *steel*
 Thickness *1½"* Range of tensile strength *27,400* Are they welded or flanged *no* Descrip. of riveting: cir. seams *lap double* long. seams *butt butt*
 Diameter of rivet holes in long. seams *1½"* Pitch of rivets *5½"* Lap of plates *no* width of butt straps *18"*
 Percentages of strength of longitudinal joint *88-9* Working pressure of shell by rules *171* Size of manhole in shell *16 x 12"*
 Description of compensating ring *9 in. rule* No. and Description of Furnaces in each boiler *3 plain* Material *steel* Outside diameter *40½"*
 Length of plain part *top 7-3 bottom 7-3* Thickness of plates *top ¾ bottom ¾* Description of longitudinal joint *butt straps* No. of strengthening rings *1 pair*
 Working pressure of furnace by the rules *170* Combustion chamber plates: Material *steel* Thickness: Sides *¾"* Back *¾"* Top *5"* Bottom *5"*
 Thickness of stays to ditto: Sides *9½ x 9* Back *9½ x 9* Top *9½ x 9* If stays are fitted with nuts or riveted heads *none* Working pressure by rules *165*
 Material of stays *steel* at smallest part *14½"* Area supported by each stay *82"* Working pressure by rules *240* End plates in steam space:
 Material *steel* Thickness *1½"* Pitch of stays *7-17½* How are stays secured *2 nuts* Working pressure by rules *162* Material of stays *steel*
 at smallest part *8-27* Area supported by each stay *293"* Working pressure by rules *180* Material of Front plates at bottom *steel*
 Thickness *¾"* Material of Lower back plate *steel* Thickness *¾"* Greatest pitch of stays *14½"* Working pressure of plate by rules *307*
 Diameter of tubes *3½"* Pitch of tubes *4½"* Material of tube plates *steel* Thickness: Front *¾"* Back *¾"* Mean pitch of stays *10-89*
 Distance across wide water spaces *14½"* Working pressures by rules *164 & 180* Girders to Chamber tops: Material *steel* Depth and thickness of girder at centre *8 x 4"* Length as per rule *2-65* Distance apart *9"* Number and pitch of Stays in each *two 9"*
 Working pressure by rules *160* Superheater or Steam chest; how connected to boiler *none* Can the superheater be shut off and the boiler worked
 Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet
 Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 Fitted 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:— *As required by the rules & in addition one spare propeller shaft—*

Manufacturer.

Hall-Brown Buttery & Co

Is the approved plan of main boiler forwarded herewith Yes

donkey

These engines & boilers have been constructed under
special survey the materials & workmanship are of
good description they have been well fitted on board
and under steam.

This machinery is in our opinion eligible to have
notification **† LMC. 499** in the Register Book

It is submitted that
this vessel is eligible for
THE RECORD ☒ L.M.C. 499.

A.C.H.
21.4.99

21.4.99

When applied for,

When received,

FRI. 21 APR 1899

Assigned

+ Lm 4.99

WRITTEN.

W. Read & H. Gardner, Architects
Engineer Surveyor to Lloyd's Register of British & Foreign Ships

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Lloyd's Register
Foundation