

REPORT ON MACHINERY.

Port of *Glasgow*Received at London Office **MUN 14 NOV 1898**

No. in Survey held at *Glasgow & Leith*. Date, first Survey *8 February* Last Survey *6 August 1898*
 Reg. Book. *at Leith 29th August* Number of Visits *33* *5th Nov 1898*
692 on the *Screen Steamer Simpson*. Tons *Gross 184.03*
Net 22.79
 Built at *Inverkeithing*. By whom built *Cumming & Ellis*. When built *1898*.
 Engines made at *Glasgow*. By whom made *Huson & Son* when made *1898*.
 Boilers made at *Glasgow*. By whom made *Anderson & Lyall* when made *1898*.
 Registered Horse Power *75* Owners *Munhead Trawlers Lim^d*. Port belonging to *Ganton*
(Munhead's manager)
 Nom. Horse Power as per Section 28 *40.86*. Is Electric Light fitted *No.*

ENGINES, &c.—Description of Engines *Compound surface condensing*. No. of Cylinders *Two*. No. of Cranks *Two*.
 Diameter of Cylinders *21"-22"*. Length of Stroke *24"* Revolutions per minute *70* Diameter of Screw shaft *as per rule 7.6"*
as fitted 6.8" Diameter of Tunnel shaft *as per rule 7.4"* Diameter of Crank shaft journals *4 5/8"* Diameter of Crank pin *4 5/8"* Size of Crank webs *11 1/4" x 5 1/4" built*
as fitted 7.4" Diameter of screw *9' 3"* Pitch of screw *14' 6"* No. of blades *4*. State whether moveable *No.* Total surface *32 sq. feet*.
 No. of Feed pumps *one*. Diameter of ditto *2 3/4"* Stroke *24"* Can one be overhauled while the other is at work *✓*
 No. of Bilge pumps *one*. Diameter of ditto *2 3/4"* Stroke *24"* Can one be overhauled while the other is at work *✓*
 No. of Donkey Engines *one*. Sizes of Pumps *5 1/2" x 3 1/2" x 4"* No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room *one 2" dt.* In Holds, &c. *one 2" dt.*
 No. of bilge injections *1* sizes *3 1/2"* Connected to condenser, or to circulating pump *C.P.* Is a separate donkey suction fitted in Engine room & size *Yes 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 *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 *Suction to hold* How are they protected *Wood casing*
 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 vessel* Is the screw shaft tunnel watertight *none*
 Is it fitted with a watertight door *✓* worked from *✓*

BOILERS, &c.—(Letter for record *\$*.) Total Heating Surface of Boilers *1598 sq. ft.* Is forced draft fitted *No.*
 No. and Description of Boilers *one: cylind^r Multi-Simple Ended* Working Pressure *110 lbs.* Tested by hydraulic pressure to *220 lbs.*
 Date of test *9/8/98*. Can each boiler be worked separately *✓* Area of fire grate in each boiler *54 sq. ft.* No. and Description of safety valves to
 each boiler *Two: Direct Spring*. Area of each valve *8.29"* Pressure to which they are adjusted *115 lbs.* Are they fitted
 with easing gear *yes* Smallest distance between boilers or uptakes and bunkers or *woodwork* *10"* Mean diameter of boilers *13.3"*
 Length *11' 0"* Material of shell plates *Steel* Thickness *3/4"* Description of riveting: circum. seams *Lap Double* long. seams *D'ble Butt straps*.
 Diameter of rivet holes in long. seams *15"* Pitch of rivets *4 3/32"* *2 28/32"* Lap of plates or width of butt straps *9 3/4"*
 Percentages of strength of longitudinal joint *84* Working pressure of shell by rules *115 lbs.* Size of manhole in shell *16" x 12"*
 Diameter of compensating ring *28 1/2" x 24 1/2" x 13"* No. and Description of Furnaces in each boiler *3: plain* Material *Steel* Outside diameter *40"*
 Length of plain part *top 7' 0"* Thickness of plates *crown 2 19/32"* Description of longitudinal joint *Welded* No. of strengthening rings *partial at bottom*
bottom 9' 10" Working pressure of furnace by the rules *114 lbs.* Combustion chamber plates: Material *Steel* Thickness: Sides *1/2"* Back *3/32"* Top *1/2"* Bottom *1/2"*
 Diameter of stays to ditto: Sides *8' x 8"* Back *8 1/16" x 8 3/16"* Top *7 1/4" x 8 1/4"* If stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *120 lbs.*
 Material of stays *Steel* Diameter at smallest part *1 1/4"* Area supported by each stay *69"* Working pressure by rules *138 lbs.* End plates in steam space:
 Material *Steel* Thickness *1/8"* Pitch of stays *18" x 18 1/4"* How are stays secured *D'ble nuts & washers* Working pressure by rules *111 lbs.* Material of stays *Steel*
 Diameter at smallest part *2 3/8"* Area supported by each stay *328"* Working pressure by rules *131 lbs.* Material of Front plates at bottom *Steel*
 Thickness *1/16"* Material of Lower back plate *Steel* Thickness *3/32"* Greatest pitch of stays *12"* Working pressure of plate by rules *142 lbs.*
 Diameter of tubes *3 1/2"* Pitch of tubes *4 3/4" x 4 3/4"* Material of tube plates *Steel* Thickness: Front *1/8"* Back *1/16"* Mean pitch of stays *11 1/8"*
 Distance across wide water spaces *14 1/2"* Working pressures by rules *Front 130 lbs. Back 120 lbs.* Girders to Chamber tops: Material *Steel* Depth and
 thickness of girder at centre *7 3/4" x 1 5/8"* Length as per rule *35 1/4"* Distance apart *7 3/4"* Number and pitch of Stays in each *3: 8 1/4"*
 Working pressure by rules *118 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— Description *None*
Made at _____ By whom made _____ When made _____ Where fixed _____
Working pressure _____ tested by hydraulic pressure to _____ No. of Certificate _____ Fire grate area _____ Description of safety valves _____
No. of safety valves _____ Area of each _____ Pressure to which they are adjusted _____ If fitted with easing gear _____ If steam from main boilers enters the donkey boiler _____
Diameter of donkey boiler _____ Length _____ Material of shell plates _____ Thickness _____
Description of riveting long. seams _____ Diameter of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____
Lap of plating _____ Per centage of strength of joint _____ Rivets _____ Thickness of shell crown plates _____ Radius of do. _____ No. of Stays to do. _____
Dia. of stays _____ Diameter of furnace Top _____ Bottom _____ Length of furnace _____ Thickness of furnace plates _____ Description _____
joint _____ Thickness of furnace crown plates _____ Stayed by _____ Working pressure of shell by rules _____
Working pressure of furnace by rules _____ Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____

SPARE GEAR. State the articles supplied:— *As per Rules*

The foregoing is a correct description,

Manufacturer. *W. Adam & Son*

Dates of Survey while building
During progress of work in shops— 1898:— Feb. 8. 14. 21. 23. Mar. 7. 9. 14. 17. 21. 24. 29. 31. Apr. 6. 20. 27. May. 4. 5. 10. 11. 13. 20. 25. June
During erection on board vessel— 16. 21. 24. 27. July. 4. 12. 21. 28. Aug. 6. At Leith 1898. Aug. 29. 30. Sept. 25. Nov. 5.
Total No. of visits *33 + 4 = 37*

General Remarks (State quality of workmanship, opinions as to class, &c.)

ENGINES—Length of stern bush *32'* Diameter of crank shaft journals *as per rule 4 1/2"* Diameter of thrust shaft under collars *4 1/2"*

BOILERS—Range of tensile strength *29-32 tons* Are they welded or flanged *No.* DONKEY BOILERS—No. _____ Range of tensile strength _____

Is the approved plan of main boiler forwarded herewith ☒

Is the approved plan of donkey boiler forwarded herewith ☒

The Engines and Boiler of this vessel have been built under special survey and the materials and workmanship are good. When completed they were reamined under steam and worked satisfactorily.

The machinery is now in good and efficient condition and reliable in our opinion to have the record of *L.M.C. 11, 98* marked in the Society's Register Book.

It is submitted that this vessel is eligible for THE RECORD. *L.M.C. 11. 98.*

A.C.H.

16. 11. 98.

J.L.
15. 11. 98

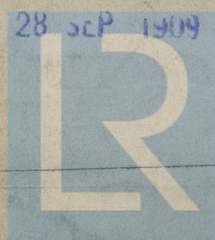
The amount of Entry Fee, £ *1* : : When applied for, *31. 8. 18. 98*
Special £ *10* : *10* : :
Donkey Boiler Fee £ : : When received, *15. 1. 18. 98*
Travelling Expenses (if any) £ *7/6* : : *7/6*

Committee's Minute

Assigned

TUES. 15 NOV 1898

Wm. Austin & Thomas Lee
Engineer Surveyor to Lloyd's Register of British & Foreign Ships
MACHINE CERTIFICATE
TUES. 28 SEP 1909



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