

REPORT ON MACHINERY.

No.
12485Port of *Shull*

SAT. 18 MAR 1899

Received at London Office

No. in Survey held at *Shull*
Reg. Book.Date, first Survey *July 23rd 98*Last Survey *Mar 16th 1899*(Number of Visits *22*)

Built on the

*Iron Steam Drifter Seelmar*Tons { Gross *205*
Net *68*

Master

Built at *Shull*By whom built *Cook Wilson & Bennett* When built *1899*

Engines made at

Shull

By whom made

*Charles & Holmes & Co*when made *1899*

Boilers made at

Shull

By whom made

*Charles & Holmes & Co*when made *1899*

Registered Horse Power

*58*Owners *Pickering & Baldane & Co* Port belonging to *Shull*Nom. Horse Power as per Section 28 *64*Is Electric Light fitted *No*

ENGINES, &c.—Description of Engines

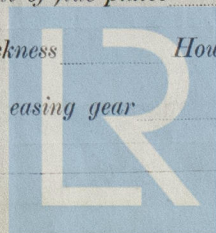
*Simple Compound*No. of Cylinders *Three* No. of Cranks *Three*Diameter of Cylinders *11 3/4" .20" 33"* Length of Stroke *24* Revolutions per minute *172* Diameter of Screw shaft as per rule *6.68*Diameter of Tunnel shaft as per rule *6.04* Diameter of Crank shaft journals *6 9/16* Diameter of Crank pin *6 9/16* Size of Crank webs *9 x 4 9/16*Diameter of screw *8' 3"* Pitch of screw *11' 0"* No. of blades *4* State whether moveable *No* Total surface *35 sq ft*No. of Feed pumps *one* Diameter of ditto *2 1/4"* Stroke *14"* Can one be overhauled while the other is at work *-*No. of Bilge pumps *one* Diameter of ditto *2 1/4"* Stroke *14"* Can one be overhauled while the other is at work *-*No. of Donkey Engines *one* Sizes of Pumps *2 1/2" x 5"* No. and size of Suctions connected to both Bilge and Donkey pumpsEngine Room *one 2'* In Holds, &c. *one 2'**Given suction in the Engine room Bilge & hold and discharge on deck.*No. of bilge injections *one* sizes *3"* Connected to condenser, or to circulating pump *Yes* Is a separate donkey suction fitted in Engine room & size *given*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 *Suction to forward* 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 *Nov 98* Is the screw shaft tunnel watertight *In tunnel*Is it fitted with a watertight door *-* worked from *-*BOILERS, &c.— (Letter for record *S*) Total Heating Surface of Boilers *1057 sq ft* Is forced draft fitted *No*and Description of Boilers *One Cyl at Shull* Working Pressure *200 lb* Tested by hydraulic pressure to *400 lb*Date of test *17/1/99* Can each boiler be worked separately *-* Area of fire grate in each boiler *27.53 sq ft* No. and Description of safety valves toboiler *Two Spring loaded* Area of each valve *3.97* Pressure to which they are adjusted *205 lb* Are they fittedLifting gear *Yes* Smallest distance between boilers or uptakes and bunkers or woodwork *8"* Mean diameter of boilers *11' 6"*Length *9' 6"* Material of shell plates *Steel* Thickness *1 1/16"* Description of riveting: circum. seams *all overlap* long. seams *all overlap*Diameter of rivet holes in long. seams *1 1/16"* Pitch of rivets *7 1/2"* Lap of plates or width of butt straps *15"*Percentages of strength of longitudinal joint rivets *87.5%* Working pressure of shell by rules *209 lb* Size of manhole in shell *16" x 12"*Diameter of compensating ring *6" x 1 1/16"* No. and Description of Furnaces in each boiler *Two bottom* Material *Steel* Outside diameter *44"*Length of plain part top *15"* Thickness of plates crown *1 1/16"* Description of longitudinal joint *Welded* No. of strengthening rings *4*Working pressure of furnace by the rules *207 lb* Combustion chamber plates: Material *Steel* Thickness: Sides *2 1/32"* Back *19/32"* Top *10/16"* Bottom *2 1/32"*Number of stays to ditto: Sides *7 1/4"* Back *7 3/16"* Top *7 7/16"* If stays are fitted with nuts or riveted heads *Yes* Working pressure by rules *236 lb*Material of stays *Steel* Diameter at smallest part *1 1/2"* Area supported by each stay *7 1/4" x 7 1/2"* Working pressure by rules *243 lb* End plates in steam space:Material *Steel* Thickness *1 1/32"* Pitch of stays *15 1/4"* How are stays secured *all nut* Working pressure by rules *203 lb* Material of stays *Steel*Diameter at smallest part *2 23/32"* Area supported by each stay *15 1/4" x 2"* Working pressure by rules *233 lb* Material of Front plates at bottom *Steel*Thickness *2 7/32"* Material of Lower back plate *Steel* Thickness *13/16"* Greatest pitch of stays *12"* Working pressure of plate by rules *200 lb*Diameter of tubes *3 1/2"* Pitch of tubes *4 1/4"* Material of tube plates *Steel* Thickness: Front *2 1/32"* Back *13/16"* Mean pitch of stays *9 1/2"*Distance across wide water spaces *14"* Working pressures by rules *200 lb* Girders to Chamber tops: Material *Iron* Depth andWeight of girder at centre *8" x 1 1/4"* Length as per rule *28 5/16"* Distance apart *7 5/16"* Number and pitch of Stays in each *Three 7 1/2"*Working pressure by rules *218 lb* Superheater or Steam chest; how connected to boiler 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

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



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H0648-0290

DONKEY BOILER— Description *No Donkey Boiler*

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 can enter 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 of 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:— *The top end bolts. The bottom end bolts. The main bearing bolts. One set coupling bolts. One set feed pump valves. One set bilge pump valves. One set check valves. Safety valve spring.*
The vessel efficient with masts and sails as a drawler.

The foregoing is a correct description,

Charles D. Holmes Manufacturer.

Dates of Survey while building { During progress of work in shops - 1898: July 23 Sep 5. 16. 21 Oct 6. 14. Nov 14. 28 Dec 5. 19 / 1899: Jan 3. 11. 17. 20. 24. 30 Feb 15 Mar 2. 6. 7. 9. 16.
Total No. of visits 22

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

ENGINES—Length of stern bush *31"* Diameter of crank shaft journals *as per rule 6.36* as fitted *6.9 1/4* Diameter of thrust shaft under collars *6.9 1/4*

BOILERS—Range of tensile strength *29,632* Are they welded or flanged *N* DONKEY BOILERS—No. _____ Range of tensile strength _____

Is the approved plan of main boiler forwarded herewith *3/1/99* Is the approved plan of donkey boiler forwarded herewith _____

This case is similar in all respects to the 'General Gordon' Hull Report No 12410.

The Machinery and Boiler of this Steam Drawler have been constructed under Special Survey and placed on board in accordance with the Society's Rules. They are good in my opinion in safe working condition and the case is respectfully submitted for the Certification + L.M.C. 3.99 in the Register Book.

It is submitted that
this vessel is eligible for
THE RECORD. ☒ L.M.C. 3.99

A.C.H.

21. 3. 99

[Signature]

21. 3. 99

The amount of Entry Fee. . . £ 1 : 0 :
Special . . . £ 9 : 12 :
Donkey Boiler Fee . . . £ - : - :
Traveling Expenses (if any) £ - : - :
When applied for, *14/3/1899*
When received, *29.3.99*

Charles D. Holmes
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

MACHINERY CERTIFICATE
WRITTEN.

Committee's Minute

Assigned

1UES, 21 MAR 1899

+ L.M.C. 3.99



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