

Port of

Glasgow

Received at London Office

JUN 21 1904

No. in Survey held at

Glasgow

Date, first Survey

24<sup>th</sup> Feb'y

Last Survey

31<sup>st</sup> May 1904

Reg. Book.

on the

S. YACHT

"TIGHNAMARA."

(Number of Visits

9)

Tons

Gross

Net

When built 1904

Master

Built at

Greenock

By whom built

G. Brown &amp; Co.

Engines made at

Glasgow

By whom made

Rees, Anderson &amp; Co.

when made 1904

Boilers made at

Glasgow

By whom made

Rees, Anderson &amp; Co.

when made 1904

Registered Horse Power

Owners

Port belonging to

Nom. Horse Power as per Section 28

19.

Is Refrigerating Machinery fitted

No.

Is Electric Light fitted

Yes

ENGINES, &amp;c.—Description of Engines Compound, — Screw.

No. of Cylinders

2

No. of Cranks

2

Dia. of Cylinders

10" &amp; 20"

Length of Stroke

15"

Revs. per minute

170

Dia. of Screw shaft

as per rule 4.52"

Material of

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

✓

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

1' 6"

Dia. of Tunnel shaft

as per rule 4.04"

as fitted 4 1/8"

Dia. of Crank shaft journals

as per rule 4.24"

as fitted 4 1/4"

Dia. of Crank pin

4 1/4"

Size of Crank webs

2 7/8" x 4"

Dia. of thrust shaft under

collars on crank

Dia. of screw

5" 6"

Pitch of screw

7" 2"

No. of blades

4

State whether moveable

no

Total surface

9 1/2 sq. ft.

No. of Feed pumps

1

Diameter of ditto

1 3/4"

Stroke

7"

Can one be overhauled while the other is at work

✓

No. of Bilge pumps

1

Diameter of ditto

1 3/4"

Stroke

7"

Can one be overhauled while the other is at work

✓

No. of Donkey Engines

one

Sizes of Pumps

4" x 2 3/4" x 5"

No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room

one 2" dia.

In Holds, &amp;c.

One 2" dia.

No. of bilge injections

1

sizes

2"

Connected to condenser, or to circulating pump

pump

Is a separate donkey suction fitted in Engine room &amp; 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

Are all connections with the sea direct on the skin of the ship

yes

Are they Valves or Cocks

Valves &amp; 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

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

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, &amp;c.—

(Letter for record (S))

Total Heating Surface of Boilers

396 sq. ft.

Is forced draft fitted

no

No. and Description of Boilers

one single ended.

Working Pressure

120 lbs

Tested by hydraulic pressure to

Date of test 18/4/04 Can each boiler be worked separately

✓

Area of fire grate in each boiler

15.8 sq. ft.

No. and Description of safety valves to

each boiler

2 patent spring

Area of each valve

2.4"

Pressure to which they are adjusted

120 lbs

Are they fitted with easing gear

Smallest distance between boilers or uptakes and bunkers or woodwork

10"

Mean dia. of boilers

7" 3"

Length

7" 9"

Material of shell plates

Thickness

1 1/4"

Range of tensile strength

28 to 32

Are they welded or flanged

no

Descrip. of riveting: cir. seams

single

long. seams

Diameter of rivet holes in long. seams

15/16"

Pitch of rivets

4"

Lap of plates or width of butt straps

8 1/4"

Per centages of strength of longitudinal joint

rivets 96

plate 76.56

Working pressure of shell by rules

124 lbs

Size of manhole in shell

16" x 12"

Size of compensating ring

6 1/2" x 9 1/16"

No. and Description of Furnaces in each boiler

One plain

Material

steel

Outside diameter

Length of plain part

top 5" 8"

bottom 6" 9"

Thickness of plates

crown 9/16"

Description of longitudinal joint

welded

No. of strengthening rings

none

Working pressure of furnace by the rules

121 lbs

Combustion chamber plates: Material

steel

Thickness: Sides

1/2"

Back

Pitch of stays to ditto: Sides

7 1/2" x 7 1/4"

Back

8" x 8 1/4"

Top

7 1/2" x 7 1/4"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

Material of stays

steel

Diameter at smallest part

1.19"

Area supported by each stay

66"

Working pressure by rules

144 lbs

End plates in steam space:

Material

steel

Thickness

5/8"

Pitch of stays

13 1/2" x 11 1/4"

How are stays secured

nuts

Working pressure by rules

Material

steel

Thickness

5/8"

Greatest pitch of stays

8 1/4" x 8"

Working pressure of plate by rules

208 lbs

Diameter of tubes

2 1/2"

Pitch of tubes

3 1/2" x 3 5/8"

Material of tube plates

steel

Thickness: Front

5/8"

Back

19/32"

Pitch across wide water spaces

8 3/4"

Working pressures by rules

183 lbs

Girders to Chamber tops: Material

steel

Depth and

thickness of girder at centre

5 1/2" x 2-9/16"

Length as per rule

1" 7"

Distance apart

7 1/4"

Number and pitch of Stays in each

1- 9 1/2"

Working pressure by rules

148 lbs

Superheater or Steam chest; how connected to boiler

none

Can the superheater be shut off and the boiler worked

separately

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 the

noted with easing gear

✓



**DONKEY BOILER—** No. *None* Description ✓  
 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 ✓  
 Dia. of donkey boiler ✓ Length ✓ Material of shell plates ✓ Thickness ✓ Range of tensile strength ✓  
 Descrip. of riveting long. seams ✓ Dia. of rivet holes ✓ Whether punched or drilled ✓ Pitch of rivets ✓  
 Lap of plating ✓ Per centage of strength of joint <sup>Rivets</sup> Plates } ✓ 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:— *None required by Yacht Rules.*

The foregoing is a correct description,

Manufacturer.

*Luc. Anderson & Co.*

Dates { During progress of work in shops - - } 1901, Feb 24, Mar 5, 31, April 12, 18, 27, May 5, 9, 13.  
 of Survey { During erection on board vessel - - } 31  
 while building { Total No. of visits } 9.

Is the approved plan of main boiler forwarded herewith *Yes*.

" " " donkey " " "

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

*The machinery of this vessel has been constructed under Special Survey, the materials and workmanship are of good quality, it has been securely fitted on board, tried under steam, & found to be satisfactory. In my opinion, it is eligible to be classed in the Y. Register Book with the record of L.M.C. 6.04.*

It is submitted that this vessel is eligible for THE RECORD.

*+ L.M.C. 6.04 Elec. light.*

*SM*

*CM*

*21.6.04*

The amount of Entry Fee.. £ *14* : : When applied for, *14.6.1904*  
 Special .. .. £ *8* : :  
 Donkey Boiler Fee .. .. £ : : When received, *24/6/04 or 4/7/04*  
 Travelling Expenses (if any) £ : :  
 Glasgow 20 JUN 1904

Committee's Minute

Assigned

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

*+ L.M.C. 5.04*

When fee is paid

MACHINERY CERTIFICATE



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