

REPORT ON MACHINERY.

Port of

Glasgow

Received at London Office

TUES 24 NOV 1896

Date, first Survey 10 February

Last Survey

1896

(Number of Visits)

59

Gross

5531

Net

3542

When built

1896

Survey held at

Glasgow

Reg. Book.

on the

S.S. Lintagh Castle

Master

R. Randall

Built at

Glasgow

By whom built

The Fairfield S & C Co

Engines made at

Glasgow

By whom made

"

"

"

"

"

when made

1896

Boilers made at

"

By whom made

"

"

"

"

when made

1896

Registered Horse Power

Owners

J. Currie & Co

Port belonging to

London

Nom. Horse Power as per Section 28

620

Castle Mail Packet Co

Is Electric Light fitted

Yes

ENGINES, &c.—Description of Engines

Triple

No. of Cylinders

3

No. of Cranks

3

Diameter of Cylinders

30 3/4" 51" 82"

Length of Stroke

4' 9"

Revolutions per minute

48

Diameter of Screw shaft

as per rule 15 1/8"

Diameter of Tunnel shaft

as per rule 15 1/8"

Diameter of Crank shaft journals

16"

Diameter of Crank pin

16 1/2"

Size of Crank webs

11" x 30 1/2" over

Diameter of screw

19 1/8"

Pitch of screw

19.6"

No. of blades

4

State whether moveable

Yes

Total surface

102 ft²

No. of Feed pumps

None

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

Yes

No. of Bilge pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

2

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

Yes

In Engine Room

2

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

Yes

No. of bilge injection

One size

16"

Connected to

circulating pump

Is a separate donkey suction fitted in Engine room & size

Yes

5"

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

Yes

Are the blow off cocks fitted with a spigot and brass covering plate

Yes

What pipes are carried through the bunkers

Pipes to fore Compartment

How are they protected

By 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

On ship before launch

Is the screw shaft tunnel watertight

Apparently

Is it fitted with a watertight door

Yes

worked from

Upper platform

BOILERS, &c.—

(Letter for record)

Total Heating Surface of Boilers

10,489 ft²

Is forced draft fitted

No

No. and Description of Boilers

2

Description of Boilers

2

Working Pressure

140 lbs

Tested by hydraulic pressure to

340 lbs

Date of test

4/16/96

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

9.62 ft²

No. and Description of safety valves to

each boiler

2

Description of safety valves

Direct Spring

with easing gear

Yes

Smallest distance between boilers or uptakes and bunkers or woodwork

13"

Mean diameter of boilers

14.6"

Length

10' 3"

Material of shell plates

Steel

Thickness

1 1/2"

Description of riveting: circum. seams

Double & treble

long. seams

Double butt straps

20 1/2" x 1 1/2"

Diameter of rivet holes in long. seams

1 1/2"

Pitch of rivets

9"

Lap of plates or width of butt straps

18 1/2" x 1 1/2"

Per centages of strength of longitudinal joint

85.4%

Working pressure of shell by rules

181 lbs

Size of compensating ring

Bored rings

No. and Description of Furnaces in each boiler

3

Material

Steel

Outside diameter

3' 0 1/2" at base

4' 0 1/2" at top

Length of plain part

6' 10 1/2"

Thickness of plates

1 1/2"

Description of longitudinal joint

Welded

No. of strengthening rings

1

Working pressure of furnace by the rules

142 lbs

Combustion chamber plates: Material

Steel

Thickness: Sides

9/16"

Back

9/16"

Top

9/16"

Pitch of stays to ditto: Sides

4"

Back

4"

Top

4"

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

180 lbs

Material of stay

Steel

Diameter at smallest part

1 1/2"

Area supported by each stay

54"

Working pressure by rules

142 lbs

End plates in steam space:

Material of stays

Steel

Diameter at smallest part

7.5"

Area supported by each stay

225"

Working pressure by rules

205 lbs

Material of Front plates at bottom

Steel

Thickness

1 1/2"

Thickness

2 1/2"

Material of Lower back plate

Steel

Thickness

1 1/2"

Greatest pitch of stays

11 1/2" x 11 1/2"

Working pressure of plate by rules

220 lbs

Diameter of tubes

8 1/4"

Pitch of tubes

4 1/2" x 4 1/2"

Material of tube plates

Steel

Thickness: Front

16 1/2"

Back

8 1/2"

Pitch across wide water spaces

14 1/2"

Working pressures by rules

189 "

Girders to Chamber tops: Material

Steel

Depth and

thickness of girder at centre

8 1/4" x 13 1/8"

Length as per rule

2' 6"

Working pressure by rules

144 lbs

Superheater or Steam chest; how connected to boiler

None

Can the superheater be shut off and the boiler worked

separately

Yes

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

How stayed

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

Yes

GLS176-0165

BTR Register

Foundation

DONKEY BOILER

Description

Donkey Boilers

Made at

S. W. W. W. W. W.

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:

Propeller, Shaft, 4 cast iron braces, Bronze blade, 1 set cross head braces, 1 pair crank pin braces, 1 air pump rod & bucket with head valve, valve & seat for feed chests, 1/2 set G.M. valves for bilge pumps, Connect rod bolts top & bottom, main bearing bolts, coupling bolts, Slide valve spindle to fit either M. or P. assortment of bolts nuts & other gear

The foregoing is a correct description,

Manufacturer.

AND ENGINEERING CO., LIMITED

J. Maclean

Dates

During progress of

work in shops - 1896 Feb 10, 11, 13, 14, 18, 20, 24 March 5, 10, 16, 19, 24, 25, 26, 30, April 9, 14, 17, 23, 24, 29, May 2, 5, 8, 12, 18, 20, 28,

of Survey

During erection on

board vessel - June 2, 4, 10, 16, 17, 25, 29, July 8, 13, 15, Aug 4, 12, 20, 25, Sept 4, 8, 11, 16, 24, 25, 26, 28, Oct 5, 8, 21, Nov 3, 5, 10,

while

building

Total No. of visits

59

General Remarks

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

The Engines & Boilers of this

essel are of good workmanship & materials & are now in good order & safe working condition & eligible in our opinion to be noted in the Register Book + L.M.C. 11/96

Boiler & Engine retained for duplicate set. Water vessel in

It is submitted that
this vessel is eligible for
THE RECORD. + L.M.C. 11. 96

+ L.M.C. 11. 96

Elec. Light

R. 8.

24/11/96

24. 11. 96

The amount of Entry Fee..

£

3

When applied for,

21/11/96

Special ..

£

51

When received,

Donkey Boiler Fee ..

£

1

Travelling Expenses (if any) £

£

1

Committee's Minute

FRI 27 NOV 1896

Assigned

+ L.M.C. 11. 96

Elec. Light



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