

Rpt. 5.

REPORT ON BOILERS.

FRI. MAR. 5 - 1920

No. 316.65

Date of writing Report

191

When handed in at Local Office

3/3/20

Received at London Office

Port of Hull

No. in Survey held at
Reg. Book.

Date, First Survey

Oct 6/19 Last Survey

26/2/20
1920

(Number of Visits)

Gross 551.82
Net 242.03

on the

S.S. Fairland

Master

Built at

Groble

By whom built

Groble & R. B. St.

When built

1920

Engines made at

Cochridge.

By whom made

Wm. Beardmore & Co. Ltd.

When made

1920.

Boilers made at

Hull

By whom made

Thos. & Holmes Ltd. 2, 1178

When made

1920.

Registered Horse Power

85.

Owners

Fairland Shipping Co. Ltd.

Port belonging to

Liverpool.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

(Letter for record 5)

Total Heating Surface of Boilers

15304

Is forced draft fitted

no

No. and Description of

Boilers one single ended mult.

Working Pressure

180 lbs.

Tested by hydraulic pressure to

360 lbs.

Date of test 8/1/20

No. of Certificate

3414

Can each boiler be worked separately

yes

Area of fire grate in each boiler

47.54

No. and Description of

safety valves to each boiler

2 spring loaded

Area of each valve

5.94 sq. in.

Pressure to which they are adjusted

185 lbs.

Are they fitted with easing gear

yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

yes

Smallest distance between boilers or uptakes and bunkers or woodwork

alt 12"

Mean dia. of boilers

159 1/8"

Length

10'-6"

Material of shell plates

Steel

Thickness

1 3/8"

Range of tensile strength

28-32 tons

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

double

long. seams

T.R.D.B.S.

Diameter of rivet holes in long. seams

1 1/8"

Pitch of rivets

6 1/2"

Lap of plates or width of butt straps

15 1/2"

Per centages of strength of longitudinal joint

87.8

Working pressure of shell by

rules

180 lbs.

Size of manhole in shell

16" x 12"

Size of compensating ring

4" x 1 1/2"

No. and Description of Furnaces in each

top 80"

Thickness of plates

3 1/2"

boiler three plain

Material

Steel

Outside diameter

39 1/2"

Length of plain part

bottom 69"

Working pressure of furnace by the rules

183 lbs.

Combustion chamber

Description of longitudinal joint

welded

No. of strengthening rings

Working pressure of furnace by the rules

183 lbs.

Combustion chamber

plates: Material

Steel

Thickness: Sides

4"

Back

4"

Top

4"

Bottom

4"

Pitch of stays to ditto: Sides

10" x 9"

Back

10" x 8 1/2"

Top 10" x 8 1/2"

Are stays fitted with nuts or riveted heads

nuts

Working pressure by rules

265 lbs.

Material of stays

Steel

Diameter at

smallest part

2 1/4"

Area supported by each stay

90 sq. in.

Pitch of stays

18" x 17"

How are stays secured

DNW

Working pressure by rules

185 lbs.

Material of stays

Steel

Diameter at smallest part

5 1/2"

Area supported by each stay

306 sq. in.

Working pressure by rules

190 lbs.

Material of Front plates at bottom

Steel

Thickness

5"

Material of

Lower back plate

Steel

Thickness

3 1/2"

Pitch of tubes

4 1/2" x 5"

Material of tube plates

Steel

Thickness: Front

7 1/8"

Back

7 1/8"

Mean pitch of stays

11.2"

Pitch across wide

water spaces

14 1/2" double

Working pressures by rules

222 lbs.

Girders to Chamber tops: Material

Steel

Depth and thickness of

girder at centre

10" x 1 1/2"

Length as per rule

32.47

Distance apart

10"

Number and pitch of Stays in each

three 8"

Working pressure by rules

234 lbs.

Superheater or Steam chest: how connected to boiler

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

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

VERTICAL DONKEY BOILER—

No.

Description

Manufacturers of steel

Made at

By whom made

When made

Where fixed

Working pressure

Tested by hydraulic pressure to

Date of test

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

Can 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

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

Working pressure of furnace by rules

Thickness of furnace crown

plates

Radius of do.

Stayed by

Diameter of uptake

Thickness of water tubes

Stayed by

Diameter of uptake

Thickness of uptake plates

The foregoing is a correct description,

FOR CHARLES D. HOLMES & Co. LTD.

Manufacturer.

Dates

During progress of

work in shops

1919: Oct 6. Nov 5. Dec 15 1920: Jan. 8, 20, 26.

During erection on

board vessel

Total No. of visits

6

Is the approved plan of main boiler forwarded herewith

yes

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

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

This boiler has been built under special survey. The materials & workmanship are good. On completion the boiler was tested by hydraulic pressure to 360 lbs & found sound & tight.

This boiler has been properly fitted & secured on board the s.s. "Fairland," & its safety valves adjusted under steam.

P. Fitzgerald.

pt. 8.

REF

Date of writing Report

No. in Reg. Book. Sur

577 on t

TONNAGE:

GROSS 55

UNDER DE

NET

Surveyed After

WB=CellDB

total capacity

N.B.—All alterations

If the Vessel

of the tanks examined

girders, and of the

Last Report

(Periodical Surveys,

cause of Repairs, &

on account of Damage

and besides being

replacement of An

the back of this for

In damage cases where

they were declined

REPAIRS, OR EX

Sunderland

Now Done

replaced, &

on Flying

in place a

SUMMARY OF DAMAGE

Renewed ...

Removed and Fairred

Faired or Repaired in

PRESENT CONDITION OF

Decks

Caulking of Decks

Waterways

Coamings

Beams & Fastenings

Outside Plating

Caulking of ditto

Rivets

Breasthooks & Crutches

Transoms

Frames

Reverse Frames

Floors

Keelsons

General Observations

State clearly

this survey, thus, f

survey, 1, 15, or "to

This vessel

Survey.

Survey Fee (per Section 28)

Special Damage or Repair Fee

(per Sec. 28)

Travelling Expenses (if charge

Second Surveyor's Fee (if any)

Committee's Minute

Character Assign

Certificate (if required) to be sent to

The amount of Entry Fee .. £

Special .. £ 5-2-0

Donkey Boiler Fee .. £

Travelling Expenses (if any) £

When applied for.

4/3/1920

When received.

19/3/1920

Harbottle

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI AUG. 13 1920

FRI AUG. 20 1920

Assigned

*See minute on
attached report*



© 2019

Lloyd's Register

Foundation