

Rpt. 5a.

REPORT ON BOILERS.

No. 34703

WED. DEC. 30. 1914

Received at London Office

Date of writing Report 8. 12. 1914 When handed in at Local Office

Port of GLASGOW

No. in Survey held at

Glasgow

Date, First Survey

29/7/14

Last Survey

7/12/

1914

Reg. Book.

No. on the

S.S. FAIRMUIR

(Number of Visits 18)

Gross

Tons

Net

Master

Munichie Built at Ardrossan

By whom built

Ardrossan & Co. Ltd. (262)

When built 1914

Engines made at

Glasgow

By whom made

Lidgerwood & Co. 447

When made 1914

Boilers made at

ditto

By whom made

Dunsmuir & Jackson Ltd. 1336

When made 1914

Registered Horse Power

Owners

James Inglis & Co

Port belonging to

Glasgow

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~—Manufacturers of Steel Edwille Laidlaw & Co. Glasgow

(Letter for record R)

Total Heating Surface of Boilers

1814 #

Is forced draft fitted No

No. and Description of

Boilers One single ended

Working Pressure 180

Tested by hydraulic pressure to 360

Date of test 7.12.14

No. of Certificate 2960

Can each boiler be worked separately

Area of fire grate in each boiler

57 3/4 #

No. and Description of

safety valves to each boiler

Pair spring loaded

Area of each valve

6.11 #

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

Smallest distance between boilers or uptakes and bunkers or woodwork

2'-9"

Mean dia. of boilers

14'-1 1/8"

Length 10'-6"

Material of shell plates

S

Thickness

1 1/8"

Range of tensile strength

29/32

Are the shell plates welded or flanged

Yes

Descrip. of riveting: cir. seams

DR

long. seams

TRIDBS

Diameter of rivet holes in long. seams

1 3/16"

Pitch of rivets

8 1/2"

Top of plates or width of butt straps

1-6"

Per centages of strength of longitudinal joint

rivets 86 9/16

plate 86 9/16

Working pressure of shell by

rules 181.

Size of manhole in shell

16 1/2"

Size of compensating ring

6 3/4 x 1 1/8"

No. and Description of Furnaces in each

boiler 3 plain

Material S

Outside diameter 3'-4 9/16"

Length of plain part

top 6'-9 5/16"

Thickness of plates

crown 1 3/16"

Description of longitudinal joint

mild

No. of strengthening rings

Working pressure of furnace by the rules

183

plates: Material S

Thickness: Sides

4 3/64"

Back

2 1/32"

Top

4 3/64"

Bottom

1"

Pitch of stays to ditto: Sides

10'-8 1/4"

Back

9 1/2' x 8 5/8"

Top 7 3/4' x 9 1/2"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

181

Material of stays

iron

smallest part 9'-9 1/2"

Area supported by each stay

82"

Working pressure by rules

183

End plates in steam space: Material S

Thickness 1 3/16"

Pitch of stays

20'-1 1/2"

How are stays secured

DN.

Working pressure by rules

192

Material of stays

S

Area

Diameter at smallest part

5'-7 8"

Area supported by each stay

260"

Working pressure by rules

187

Material of Front plates at bottom

S

Thickness

1 1/32"

Lower back plate

S

Thickness

29/32

Greatest pitch of stays

14 3/4' x 9 1/2"

Working pressure of plate by rules

199

Diameter of tubes

3 1/2"

Pitch of tubes

4 3/4' x 4 3/4"

Material of tube plates

S

Thickness: Front

1 1/32"

Back

29/32"

Mean pitch of stays

11 3/8"

Pitch across wide

water spaces

14 1/2"

Working pressures by rules

181.

Girders to Chamber tops: Material

iron

Depth and thickness of

girder at centre

9'-7 1/8" (2)

Length as per rule

2'-6 1/2"

Distance apart

9 1/2"

Number and pitch of Stays in each

3 at 7 3/4"

Working pressure by rules

189

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

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

Survey request form

The foregoing is a correct description,

DUNSMUIR & JACKSON, Limited.

Manufacturer.

No. 1547 attached

Dates of Survey

During progress of work in shops - -

while building

During erection on board vessel - -

1914 July 29 Aug 3 Sept 3.10.16.21 Oct 2-7-13-19-21 the approved plan of boiler forwarded herewith

Nov. 3-9-12-17-27-30 Dec 7

Total No. of visits

18

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

This boiler has been built under Special Survey in accordance with the approved plan & the workmanship & material are of good quality

This boiler will be fitted on board at Ardrossan

This boiler has been securely fitted aboard and its safety valves adjusted under steam

Survey Fee

...

When applied for

191

Trading Expenses (if any)

...

When received

191

W. Gordon Muncliv

P. J. P. M.

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping

Committee's Minute

GLASGOW

29 DEC. 1914

Assigned TRANSMIT TO LONDON

See Gls. Rpt. No. 34941

23 MAR. 1915

Lloyd's Register

002062-002070-0122