

REPORT ON BOILERS.

No. 31910.

WED. OCT. - 9. 1912

Received at London Office

Date of writing Report

191

When handed in at Local Office

4.10.

1912

Port of

Glasgow

Safety

No. in Survey held at

Glasgow

Date, First Survey

12. 2. 12

Last Survey

2. 10. 1912

Reg. Book.

on the

S/S "Diplomat"

(Number of Visits

49.)

Gross

7615.

Tons

Net 4875.

Master

Thomson

Built at

Glasgow

By whom built

C. Coumell, Ltd.

When built

1912

Engines made at

Glasgow

By whom made

Dunsmuir Jackson & Co. (H.I.)

When made

1912

Boilers made at

ditto

By whom made

ditto

When made

1912

Registered Horse Power

Owners

J. J. Harrison

Port belonging to

Liverpool

MULTITUBULAR BOILERS

MAIN

AUXILIARY

OR DONKEY

Manufacturers of Steel

Steel Co. of Scotland, Ltd.

(Letter for record

S)

Total Heating Surface of Boilers

2383

Is forced draft fitted

No

No. and Description of

Boilers

one Single Ended

Working Pressure

215 Tested by hydraulic pressure to

430 Date of test

30.7.12

No. of Certificate

11702

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

63.25

No. and Description of

safety valves to each boiler

2 Direct Spring

Area of each valve

707

Pressure to which they are adjusted

220

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

12"

Mean dia. of boilers

15.10 5/8"

Length

10'-6"

Material of shell plates

S

Thickness

1 5/8"

Range of tensile strength

30/32

Are the shell plates welded or flanged

Yes

Descrip. of riveting: cir. seams

DR

long. seams

TR & DBS

Diameter of rivet holes in long. seams

1 5/8"

Pitch of rivets

10 3/8"

Length of plates or

width of butt straps

24"

Per centages of strength of longitudinal joint

rivets 85%

plate 84.3%

Working pressure of shell by

rules

230

Size of manhole in shell

16 x 12"

Size of compensating ring

M'Neil

No. and Description of Furnaces in each

boiler

3 Corrugated Material

S

Outside diameter

4'-0"

Length of plain part

top

Thickness of plates

crown 23/32"

bottom 1/32"

Description of longitudinal joint

weld

No. of strengthening rings

Yes

Working pressure of furnace by the rules

245

Combustion chamber

plates: Material

S

Thickness: Sides

23/32

Back

1 1/16"

Top

23/32

Bottom

1 3/32"

Pitch of stays to ditto: Sides

9 1/8 x 7 1/8"

Top

9 x 7 1/2"

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

220

Material of stays

S

area at

smallest part

1'9 5/8"

Area supported by each stay

72.25"

Working pressure by rules

240

End plates in steam space: Material

S

Thickness

1 1/4"

Pitch of stays

19 1/4 x 16"

How are stays secured

D IV

Working pressure by rules

228

Material of stays

S

area at

Area supported by each stay

307"

Working pressure by rules

250

Material of Front plates at bottom

S

Thickness

1 1/8"

Material of

Lower back plate

S

Thickness

1 1/32"

Greatest pitch of stays

14 1/2"

Working pressure of plate by rules

234

Diameter of tubes

3"

Pitch of tubes

4 1/4 x 4 3/8"

Material of tube plates

S

Thickness: Front

1 1/8"

Back

29/32"

Mean pitch of stays

10 3/4"

water spaces

14"

Working pressures by rules

221

Girders to Chamber tops: Material

Iron

Depth and thickness of

girders

at

girders at centre

9 x 7 1/8 (2)

Length as per rule

2' 4"

Distance apart

9"

Number and pitch of Stays in each

3 at 7 1/2"

Working pressure by rules

231

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

Yes

The foregoing is a correct description,

James Fletcher

Manufacturer.

Dates

During progress of

See accompanying reports

Is the approved plan of boiler forwarded herewith

Yes

while

During erection on

Total No. of visits

building

board vessel - - -

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 Report accompanies trial of the Machinery.

Survey Fee

Charged on Machinery Rept.

:

When applied for,

191

Travelling Expenses (if any)

:

:

When received,

191

Committee's Minute

GLASGOW

9 - OCT. 1912

Assigned See minute on accompanying machinery report.

W. Gordon Mitchell

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



Lloyd's Register Foundation

W 947 - 50 79