

REPORT ON BOILERS.

No. 31579.

Received at London Office

WED. JUN. 19. 1912

Date of writing Report

191

When handed in at Local Office

June 13th 1912

Port of

Glasgow

Date, First Survey

6. 2. 12

Last Survey

10. 6. 1912.

1912.

No. in Reg. Book.

Survey held at

Glasgow

on the

Boilers 2nd B 179 & 1 Regarth

(Number of Visits

16

Gross 1968

Net 1118

Master

Built at Port Glasgow

By whom built

Dunlop, Bremner & Co

When built 1912

Engines made at

Port Glasgow

By whom made

Dunlop, Bremner & Co

When made 1912

Boilers made at

Glasgow

By whom made

David Rowan & Co

When made 1912

Registered Horse Power

Owners

Rea Shipping Co Ltd

Port belonging to Liverpool

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

The Steel Company of Scotland & James Dunlop & Co

(Letter for record

(S)

Total Heating Surface of Boilers

3800 sq ft

Is forced draft fitted

no

No. and Description of

Boilers

Two Single Ended

Working Pressure

180 lb

Tested by hydraulic pressure to

360 lb

Date of test 31/5/12

No. of Certificate

11617

Can each boiler be worked separately

Area of fire grate in each boiler

56.3 sq ft

No. and Description of

safety valves to each boiler

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

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

Int.

dia. of boilers

Length

Material of shell plates

steel

Thickness

1 5/32"

Range of tensile strength

28.495

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

D. R. L.

long. seams

S. B. S.

Diameter of rivet holes in long. seams

Pitch of rivets

8.5625"

Lap of plates or width of butt straps

18 1/2"

Per centages of strength of longitudinal joint

rivets

91.8

Working pressure of shell by

rules

2 180

Size of manhole in shell

13" x 17"

Size of compensating ring

Flanged

No. and Description of Furnaces in each

boiler 3 Dighton

Material

steel

Outside diameter

3-9 1/16"

Length of plain part

top

Thickness of plates

crown

17 1/32"

Description of longitudinal joint

weld

No. of strengthening rings

Working pressure of furnace by the rules

182

Combustion chamber

plates: Material

steel

Thickness: Sides

1 1/16"

Back

7/8"

Top

1 1/16"

Bottom

1 1/16"

Pitch of stays to ditto: Sides

10 x 9

Back

9 1/4 x 8

Top 10 x 9

If stays are fitted with nuts or riveted heads

none

Working pressure by rules

181

Material of stays

steel

Diameter at

smallest part

2.07

Area supported by each stay

90

Working pressure by rules

190

End plates in steam space: Material

steel

Thickness

1 1/32"

Diameter at smallest part

7-0 5/8"

Pitch of stays

20"

How are stays secured

D. nuts

Working pressure by rules

183

Material of stays

steel

Diameter at smallest part

7-0 5/8"

Area supported by each stay

400

Working pressure by rules

184

Material of Front plates at bottom

steel

Thickness

1 3/16"

Material of

Lower back plate

steel

Thickness

27/32"

Greatest pitch of stays

14 7/16"

Working pressure of plate by rules

180

Diameter of tubes

3 1/4"

Pitch of tubes

4 1/2"

Material of tube plates

steel

Thickness: Front

13/16"

Back

13/16"

Mean pitch of stays

11 1/4"

Pitch across wide

water spaces

15 1/4"

Working pressures by rules

186

Girders to Chamber tops: Material

steel

Depth and thickness of

girder at centre

8 3/8" x 3 1/4" x 2

Length as per rule

31 7/8"

Distance apart

9"

Number and pitch of Stays in each

2 - 10"

Working pressure by rules

180

Superheater or Steam chest: how connected to boiler

none

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

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

Survey request form

Area of safety valves to superheater

Are they fitted with easing gear

No. 955 attached

The foregoing is a correct description,

for David Rowan & Co Manufacturer.

Dates of Survey

During progress of work in shops - -

1912. Feb. 6. 16. March 6. 8. 18. 20. 28.

while building

During erection on board vessel - -

April 2. 11. 15. 19. May 1. 9. 21. 31.

June 10.

Is the approved plan of boiler forwarded herewith

Yes.

Total No. of visits

16.

GENERAL REMARKS

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

These boilers have been constructed under Special Survey & are of good materials & workmanship. They have been forwarded to Greenock to be fitted on board.

Survey Fee

...

...

£ 12 : 12 :

When applied for,

13/6/1912.

Travelling Expenses (if any) £ :

When received,

1/8/1912.

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

Committee's Minute

GLASGOW

18 JUN. 1912

GLASGOW

6 - AUG 1912

FRI. SEP. 20. 1912

Assigned

Transmit to London.

Lloyd's Register Foundation

W186-0069