

REPORT ON BOILERS.

No. 38620

THU. 7-AUG. 1919

Received at London Office

Date of writing Report

191

When handed in at Local Office

1917 Port of Glasgow

No. in

Survey held at

Dumbarton

Date, First Survey

3/9/18

Last Survey

13/3/1919

Reg. Book.

on the

Beechpark

(Number of Visits

13

Tons

Gross 5135.35

Net 3168.65

Master

J. Davies

Built at

Greenock

By whom built

Greenock & Tait & Co

When built

1919

Engines made at

Greenock

By whom made

Greenock & Tait & Co

When made

1919

Boilers made at

Dumbarton

By whom made

Wm Denny & Bros Ltd (50.346)

When made

1919

Registered Horse Power

Owners

The Benholm Shipping Co Ltd

Port belonging to

Greenock

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

Letter for record

(5) Total Heating Surface of Boilers

7668 ft²

Is forced draft fitted

yes

No. and Description of

Boilers

3 Single ended

Working Pressure

180

Tested by hydraulic pressure to

360

Date of test

13/3/19

of Certificate

14653

Can each boiler be worked separately

yes

Area of fire grate in each boiler

63.3 ft²

No. and Description of

Safety valves to each boiler

Two Spring

Area of each valve

9.62 ft²

Pressure to which they are adjusted

185 lb

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

25"

Mean dia. of boilers

15'-6"

Length

11'-6"

Material of shell plates

Steel

Thickness

1 1/4"

Range of tensile strength

28 to 32

Are the shell plates welded or flanged

no

Grip. of riveting: cir. seams

double lap long. seams

treble butt

Diameter of rivet holes in long. seams

1 5/16"

Pitch of rivets

9 5/8"

of plates or width of butt straps

19 1/2"

Per centages of strength of longitudinal joint

rivets 88.3

Working pressure of shell by

plate 85.6

Size of manhole in shell

16" x 12"

Size of compensating ring

plate flanged

No. and Description of Furnaces in each

No. of furnaces

3

Description of longitudinal joint

welded

No. of strengthening rings

1

Working pressure of furnace by the rules

187

Combustion chamber

Material of shell plates

Steel

Thickness: Sides

23"

Back

11"

Top

23"

Bottom

23"

Pitch of stays to ditto: Sides

10 7/8"

Back

10 7/8"

of stays

2 1/4"

How are stays secured

2 1/2" x 8 3/4"

Working pressure by rules

189

Material of stays

Steel

Diameter at

smallest part

2 3/4"

Area supported by each stay

99 ft²

Working pressure by rules

216

End plates in steam space: Material

Steel

Thickness

1 1/2"

of stays

2 1/4"

How are stays secured

2 1/2" x 8 3/4"

Working pressure by rules

189

Material of stays

Steel

Diameter at smallest part

8 2/4"

supported by each stay

4 5/4"

Working pressure by rules

189

Material of Front plates at bottom

Steel

Thickness

3 1/2"

Material of

back plate

Steel

Thickness

27"

Greatest pitch of stays

13 5/8"

Working pressure of plate by rules

205

Diameter of tubes

2 3/4"

of tubes

4 x 3 3/8"

Material of tube plates

Steel

Thickness: Front

3 1/2"

Back

3 1/4"

Mean pitch of stays

9 13/16"

Pitch across wide

spaces

13 5/8"

Working pressures by rules

182

Girders to Chamber tops: Material

Steel

Depth and thickness of

at centre

10" x 2 1/2"

Length as per rule

36

Distance apart

10 5/8"

Number and pitch of Stays in each

(3) 9 1/4"

ing pressure by rules

182

Superheater or Steam chest: how connected to boiler

None

Can the superheater be shut off and the boiler worked

tely

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

ened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

ing pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

The foregoing is a correct description,

John Denny & Bros Ltd

Manufacturer.

During progress of 1918, Sept 3, 6, 25, Oct 1, 17, 22, 31, Nov 4, Dec 20

Is the approved plan of boiler forwarded herewith

No

During erection on 1919, Jan 15, Feb 20, 25, Mar 13

Total No. of visits

13

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

These boilers have been under special survey the materials and workmanship of good description. The valves have been sent to Greenock. These boilers have now been efficiently fitted in board the steam

Steamer.

Fees

£

11

9

17

2

When applied for

3/9/18

1918

When received

17/2/20

1918

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

Committee's Minute

GLASGOW

1 APR 1919

6 AUG 1919

Transmitted

TRANSMIT TO LONDON

See Greenock Report

No. 17503

Lloyd's Register Foundation

W347-0037