

REPORT ON BOILERS.

No. 19294

Received at London Office

FEB 1931

Date of writing Report

5. 1. 3

When handed in at Local Office 30th JANUARY 1931

Port of Greenock

No. in Reg. Book.

Survey held at

Greenock

Date, First Survey 1st APRIL 1930Last Survey 30th JANUARY 1931

on the

s/s "British Pride"

(Number of Visits ✓)

Gross 4106.40.
Tons Net 4180.14.

Master

Built at

P. Glasgow

By whom built

L. Glasgow L^a

Yard No. 849

When built 1931

Engines made at

Greenock

By whom made

John Macrae & Co L^a

Engine No. 1762

When made 1931

Boilers made at

ditto

By whom made

ditto

Boiler No. 1762

When made 1931

Nominal Horse Power

653

Owners

British Tankers L^a

Port belonging to

London.

MULTITUBULAR BOILERS, AUXILIARY.

Manufacturers of Steel

W. & A. R. Glasgow - Greenock
Usines Metallurgiques de Dunkerque, Steel Co of Scotland

(Letter for Record S)

Total Heating Surface of Boilers

2244 ft²

Is forced draught fitted

Yes

Coal or Oil fired

oil

No. and Description of Boilers

one Single Ended

Working Pressure

150

Tested by hydraulic pressure to

245

Date of test

24. 11. 30

No. of Certificate

1991

Can each boiler be worked separately

Yes

Area of Firegrate in each Boiler

usual

No. and Description of safety valves to each boiler

Backburn (Dodd) High Lift

Area of each set of valves per boiler

per Rule

19.612 ft²

as fitted

14.134 ft²

Pressure to which they are adjusted

155

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

1-6

Is oil fuel carried in the double bottom under boilers

No

Smallest distance between shell of boiler and tank top plating

1-6"

Is the bottom of the boiler insulated

Yes

Largest internal dia. of boilers

12' 11 1/8"

Length

11' 6"

Shell plates: Material

S

Tensile strength

29.33

Thickness

7/8"

Are the shell plates welded or flanged

✓

Description of riveting: circ. seams

end

inter

long. seams

TR & DBS

Diameter of rivet holes in

circ. seams

long. seams

15 1/16" + 7/8"

Pitch of rivets

2' 8 1/2"

6 3/4"

Percentage of strength of circ. end seams

plate

64.4

rivets

43.4

Percentage of strength of circ. intermediate seam

plate

rivets

Percentage of strength of longitudinal joint

plate

86.1

rivets

86.6

Working pressure of shell by Rules

152

Thickness of butt straps

outer

2 1/32"

inner

25/32"

No. and Description of Furnaces in each Boiler

2 Deightons

Material

S

Tensile strength

26-30

Smallest outside diameter

3' 2 7/8"

Length of plain part

top

✓

Thickness of plates

crown

27/16"

bottom

Description of longitudinal joint

weld

Dimensions of stiffening rings on furnace or c.c. bottom

✓

Working pressure of furnace by Rules

161

End plates in steam space: Material

S

Tensile strength

26-30

Thickness

1 1/16"

Pitch of stays

20' 16 1/2"

How are stays secured

DN Washers

Working pressure by Rules

155

Tube plates: Material

front

Steel

back

Tensile strength

26-30

Thickness

1 1/16"

Mean pitch of stay tubes in nests

10"

Pitch across wide water spaces

13 3/4"

Working pressure

front

back

143

164

Girders to combustion chamber tops: Material

S

Tensile strength

29.33

Depth and thickness of girder

at centre

8' 3 1/4" (2)

Length as per Rule

2-6' 6 1/8"

Distance apart

9 3/4"

No. and pitch of stays

in each

3 at 4 1/4"

Working pressure by Rules

140

Combustion chamber plates: Material

S

Tensile strength

26-30

Thickness: Sides

1 1/16"

Back

3/4"

Top

1 1/16"

Bottom

1 1/16"

Pitch of stays to ditto: Sides

9 1/4" + 4 1/4"

Back

9' 8"

Top

4 1/4" + 9 3/4"

Are stays fitted with nuts or riveted over

Riveted

Working pressure by Rules

160

Front plate at bottom: Material

S

Tensile strength

26-30

Thickness

29/32"

Lower back plate: Material

S

Tensile strength

26-30

Thickness

29/32"

Pitch of stays at wide water space

14"

Are stays fitted with nuts or riveted over

Riveted & Nuts

Working Pressure

156

Main stays: Material

S

Tensile strength

28-32

Diameter

At body of stay,

or

Over threads

2 5/8"

No. of threads per inch

6

Area supported by each stay

330 ft²

Working pressure by Rules

150

Screw stays: Material

S

Tensile strength

26-30

Diameter

At turned off part,

or

Over threads

1 1/2"

No. of threads per inch

9

Area supported by each stay

424 ft²

Working pressure by Rules 174 Are the stays drilled at the outer ends no Margin stays: Diameter 1 3/4" At turned off part, or Over threads

No. of threads per inch 9 Area supported by each stay 110 sq" Working pressure by Rules 164

Tubes: Material Iron External diameter 2 3/4" Plain Stay Thickness 10 WG 1 1/4 - 5/16 No. of threads per inch 9

Pitch of tubes 4" x 4" Working pressure by Rules 169 Manhole compensation: Size of opening in shell plate 16 x 20 Section of compensating ring 2'9" x 2'5" x 1" No. of rivets and diameter of rivet holes 38 at 1 1/8"

Outer row rivet pitch at ends 8 Depth of flange if manhole flanged 3 1/2" Steam Dome: Material

Tensile strength Thickness of shell Description of longitudinal joint

Diameter of rivet holes Pitch of rivets Percentage of strength of joint Plate Rivets

Internal diameter Working pressure by Rules Thickness of crown No. and diameter of stays

How connected to shell Inner radius of crown Working pressure by Rules

Size of doubling plate under dome Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell

Type of Superheater

Number of elements Material of tubes Manufacturers of Tubes Steel castings

Material of headers Tensile strength Internal diameter and thickness of tubes

the boiler be worked separately Thickness Can the superheater be shut off and

Area of each safety valve Is a safety valve fitted to every part of the superheater which can be shut off from the boiler

Rules Are the safety valves fitted with easing gear Working pressure as per

tubes Pressure to which the safety valves are adjusted Hydraulic test pressure:

castings and after assembly in place Are drain cocks or valves fitted to free the superheater from water where necessary

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with Yes

For The foregoing is a correct description,
JOHN G. KINCAID & CO. LIMITED.
Director. Manufacturer.

Dates of Survey During progress of work in shops - -
while building During erection on board vessel - -

SEE MACHINERY REPORT

Are the approved plans of boiler and superheater forwarded herewith Yes
(If not state date of approval.)

Total No. of visits 1

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

This Boiler has been built under Special Survey in accordance with the approved plans & the workmanship & material are of good quality. It is now securely fitted on board.
This Report accompanies that of the Machinery.

charged on Machinery
 Survey Fee
 Travelling Expenses (if any)

When applied for, 192
 When received, 192

Wm. Gordon-Mitchell
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 3 - FEB 1931

Assigned See Gen. Rpt. No. 19294



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 Foundation