

REPORT ON BOILERS.

Received at London Office

FEB 1931

Date of writing Report 5. 1. 31 1931 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 1930 Last Survey 30th JANUARY 1931

on the s/s "British Pride" (Number of Visits ✓) Gross 4106.40 Tons Net 4180.14

Master Built at Glasgow By whom built Leith Greenock Ld. Yard No. 849 When built 1931

Engines made at Greenock By whom made John Macneil & Co. Ld. 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 Ld. Port belonging to London.

MULTITUBULAR BOILERS, AUXILIARY.

Manufacturers of Steel W. K. Brown, Glasgow - Greenock Ld. Usines Metallurgiques de Dunkerque, Steel Co of Scotland (Letter for Record S)

Total Heating Surface of Boilers 2244 sq ft 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 27. 11. 30 No. of Certificate 1991 Can each boiler be worked separately Yes

Area of Firegrate in each Boiler 19.612 sq ft No. and Description of safety valves to each boiler 2 Backburn (Doddie) High Lift

Area of each set of valves per boiler as fitted 14.134 sq ft 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 OR inter. 2'- 8 8/32" ✓

long. seams TR + DBS Diameter of rivet holes in {circ. seams 15/16" + 7/8" ✓ long. seams 15/16" ✓ Pitch of rivets { 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 {inter 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 bottom ✓ Thickness of plates {crown 7 7/16" ✓ 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 D.N. Washers Working pressure by Rules 155

Tube plates: Material {front back Steel Tensile strength { 26-30 Thickness { 29/32" ✓ 1 1/16" ✓

Mean pitch of stay tubes in nests 10" - Pitch across wide water spaces 13 3/4" ✓ Working pressure {front 143 back 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 5/8" 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" ✓

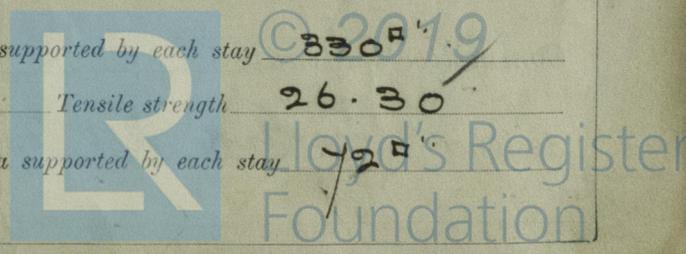
Pitch of stays at wide water space 14" ✓ Are stays fitted with nuts or riveted over Riveted & Nuts

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 sq in ✓

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 425 sq in ✓



Working pressure by Rules 174 Are the stays drilled at the outer ends no Margin stays: Diameter 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 H.4 H. Working pressure by Rules 169 Manhole compensation: Size of opening in shell plate 16 + 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 Internal diameter and thickness of tubes
 Material of headers Tensile strength Thickness Can the superheater be shut off and the boiler be worked separately
 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, castings Pressure to which the safety valves are adjusted Hydraulic test pressure: 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 plans 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 Dept. : When applied for, 192
 Travelling Expenses (if any) : When received, 192

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

Committee's Minute GLASGOW 3 - FEB 1931

Assigned See Gen. Rpt. No. 19294



© 2019 Lloyd's Register Foundation