

IVED

5a. JUL 1950

RECEIVED

REPORT ON BOILERS.

No. 14996

D.O.

24 JUL 1950

Received at London Office

3 JUL 1950

IN D.O. 1950 When handed in at Local Office 17/1950 Port of Delft.

No. in Survey held at Date, First Survey 17th October 1949 Last Survey 8th Feb 1950

on the m/r BRITISH CONSUL (Number of Visits 18)

Tons Gross Net

Built at Govan By whom built Harland & Wolff Ltd. Yard No. When built

Engines made at By whom made Engine No. When made

Boilers made at Delft By whom made Harland & Wolff Ltd. Boiler No. 13996 When made 1950

nominal Horse Power Owners Port belonging to

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Corviller

Total Heating Surface of Boilers 2047 x 2 Is forced draught fitted Yes

No. and Description of Boilers 2 Cylindrical smoke tube type Coal or Oil fired Oil or 24 Passes

Tested by hydraulic pressure to 275 lb Date of test 31.1.50 No. of Certificate 1444 Can each boiler be worked separately Yes

Area of Firegrate in each Boiler 7.75 sq ft No. and Description of safety valves to each boiler 12 2 1/2" dia Improved High Lift Double Safety valves

Area of each set of valves per boiler 8.0 sq ft Pressure to which they are adjusted 150 lb 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 Is oil fuel carried in the double bottom under boilers

Smallest distance between shell of boiler and tank top plating Is the bottom of the boiler insulated

4. Largest internal dia. of boilers 12' - 10 3/16" Length 11' - 6" Shell plates: Material Steel Tensile strength 29-33 tons

6.5 Thickness 29/32 Are the shell plates welded or flanged No Description of riveting: circ. seams end DR. inter X

29a. Wg. seams TR DBS Diameter of rivet holes in circ. seams 1 3/32 long. seams 1 1/32 Pitch of rivets 3.08 6 9/16

Percentage of strength of circ. end seams plate 64.5 rivets 53.0 Percentage of strength of circ. intermediate seam plate 84.3 rivets 104

Percentage of strength of longitudinal joint plate 84.3 rivets 104 Working pressure of shell by Rules 155 lb

Thickness of butt straps outer 23/32 inner 27/32 No. and Description of Furnaces in each Boiler 2 Saginaw

Material Steel Tensile strength 26-30 tons Smallest outside diameter 3'-8"

Height of plain part top bottom Thickness of plates crown 1/2 bottom 1/2 Description of longitudinal joint Forge welded

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 163 lb

Stays in steam space: Material Steel Tensile strength 26-30 tons Thickness 15/16 Pitch of stays 16" x 15"

139a. Are stays secured Nuts - in and out Working pressure by Rules As approved

Stays plates: Material front Steel back Steel Tensile strength 26-30 tons Thickness 7/8 3/4

Pitch of stay tubes in nests 8 5/16 Pitch across wide water spaces 13 1/2 Working pressure front As approved back As approved

Stays to combustion chamber tops: Material Steel Tensile strength 28-32 tons Depth and thickness of girder

centre 9 1/2" x 1 1/32 Length as per Rule 32 1/2 Distance apart 9 3/8 No. and pitch of stays

each forged Working pressure by Rules As approved Combustion chamber plates: Material Steel

Tensile strength 26-30 tons Thickness: Sides 3/4 Back 3/4 Top 3/4 Bottom 3/4

Stays to ditto: Sides 8 1/2" x 8 1/2" x 9" Back 8 1/4" x 9 1/2" Top 8 1/4" x 9 1/2" Are stays fitted with nuts or riveted over at shell - others welded

Working pressure by Rules As approved Front plate at bottom: Material Steel Tensile strength 26-30 tons

Thickness 7/8 Lower back plate: Material Steel Tensile strength 26-30 tons Thickness 15/16

Stays at wide water space 16 1/4" x 9 1/2" Are stays fitted with nuts or riveted over welded

Working pressure As approved Main stays: Material Steel Tensile strength 28-32 tons

At body of stay 2 3/4 No. of threads per inch 6 Area supported by each stay Various

Working pressure by Rules As approved Screw stays: Material Steel Tensile strength 26-30 tons

At turned off part 1 1/2 No. of threads per inch 9 Area supported by each stay 9 1/2" x 8 1/4"

Secured at shell only Needed at Combustion Chambers

003106-003115-0173

Working pressure by Rules. *As approved* Are the stays drilled at the outer ends. ☒ Margin stays: Diameter { At turned off part. $1\frac{3}{4} \times 2$ or Over threads. *As approved*.
No. of threads per inch. *Welded* Area supported by each stay. $14" \times 9\frac{1}{2}"$ Working pressure by Rules. *As approved*.
Tubes: Material. *H. D. S.* External diameter { Plain. $2\frac{1}{2}"$ Thickness { $10/56$ No. of threads per inch. *9*.
Pitch of tubes. $3\frac{3}{4} \times 3\frac{5}{8}"$ Working pressure by Rules. *As approved*. Manhole compensation: Size of opening. *Welded to shell*
shell plate. $17\frac{3}{4} \times 13\frac{3}{4}"$ Section of compensating ring. $2'-8" \times 2\frac{1}{4} \times \frac{7}{8}"$ No. of rivets and diameter of rivet holes. *Welded to shell*
Outer row rivet pitch at ends. ☒ Depth of flange if manhole flanged. ☒ 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. ☒
Inner radius of crown. ☒ Working pressure by Rules. ☒
How connected to shell. ☒ Size of doubling plate under dome. ☒ Diameter of rivet holes and of rivets in outer row in dome connection to shell. ☒
Type of Superheater. *None* Manufacturers of { Tubes. ☒ Steel forgings. ☒ Steel castings. ☒
Number of elements. ☒ Material of tubes. ☒ Internal diameter and thickness of tubes. ☒
Material of headers. ☒ Tensile strength. ☒ Thickness. ☒ Can the superheater be shut on in the boiler be worked separately. ☒ Is a safety valve fitted to every part of the superheater which can be shut off from the boiler. ☒
Area of each safety valve. ☒ Are the safety valves fitted with easing gear. ☒ Working pressure by Rules. ☒ Pressure to which the safety valves are adjusted. ☒ Hydraulic test pressure. ☒
tubes. ☒ forgings and castings. ☒ and after assembly in place. ☒ Are drain valves fitted to free the superheater from water where necessary. ☒

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with. *Yes*

FOR HARBOR AND VOLFF, LIMITED.

The foregoing is a correct description,

John V. Hart
Secretary

Dates of Survey while building { During progress of work in shops - - - *Oct 17, 28, 31, Nov 4, 7, 10, 14, 18*
During erection on board vessel - - - *Dec 12, Jan 5, 6, 10, 16, 26, 31*

Are the approved plans of boiler and superheater forwarded herewith. *No*
(If not state date of approval.) *Approved after 26.11.50*
Plans retained for sister vessel

Total No. of visits. *1*

Is this Boiler a duplicate of a previous case. *Yes*

If so, state Vessel's name and Report No. *1398 G. Rpt No 1487*

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

These boilers have been built under special survey in accordance with the Rules and approved plan. The materials and workmanship are good. The boilers have been dispatched to Glasgow for installation in the vessel.

These boilers have been efficiently installed onboard the vessel, examined under steam & safety valves adjusted to the working pressure. Thickness of compression washer: Port BLR $2\frac{1}{8} \times 1\frac{1}{2}"$ Star BLR $2\frac{1}{8} \times 1\frac{1}{2}"$

Gen. G. Thompson
A. J. C. Jones

Survey Fee ... £ 59 : 2 : -

Travelling Expenses (if any) £ : : -

When applied for, *1/7/50*

When received, *1950*

B. A. C. Jones

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

GLASGOW 20 JUL 1950

Assigned

SEE ACCOMPANYING MACHINERY REPORT



© 2020

Lloyd's Register Foundation