

Bel 10, No 1

No. 16830

REPORT ON BOILERS.

Received at London Office 13 MAR 1930

24-2-30 of writing Report 26.2.30 When handed in at Local Office 11.3.30 Port of *Grimby*
 No. in Survey held at *Lincoln* Date, First Survey 18.12.29 Last Survey 26.2.30
 (Number of Visits 8) Gross Tons Not

355 on the TWIN SC. SILVERCYPRESS.

By whom built *Harland & Wolff Ltd* Yard No. 882 When built 1930
 By whom made *Harland & Wolff Ltd* Engine No. 882 When made 1930
 By whom made *Babcock & Wilcox Ltd* Boiler No. 73/4605 When made 1930
 Port belonging to *London*

VERTICAL DONKEY BOILER.

Made at *Lincoln* By whom made *Babcock & Wilcox Ltd* Boiler No. 73/4605 When made 1930 Where fixed *In tunnel*

Manufacturers of Steel *Parkgate & S. B. Ltd & Appleby Iron Co. Ltd*

Total Heating Surface of Boiler *520 sq ft* Is forced draught fitted *-* Coal or Oil fired *Oil fired*

No. and Description of Boilers *One Blackston Patent waste Heat Boiler* Working pressure *100 lb sq in*

Tested by hydraulic pressure to *200 lb sq in* Date of test *27th January, 1930* No. of Certificate *282*

Area of Firegrate in each Boiler *none* No. and Description of safety valves to each boiler *one, double, spring loaded*

Area of each set of valves per boiler *per rule 6.78 sq in* Pressure to which they are adjusted *adjusted* Are they fitted with easing gear *yes*

State whether steam from main boilers can enter the donkey boiler *-* Smallest distance between boiler or uptake and bunkers

Is oil fuel carried in the double bottom under boiler *-* Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated *-* Largest internal dia. of boiler *6'-0"* Height *11'-9"*

Shell plates: Material *S. K. steel* Tensile strength *28/32 Tons* Thickness *1/2"*

Are the shell plates welded or flanged *no* Description of riveting: circ. seams *circ. S. K. long. seams O. K. D. B. straps*

Dia. of rivet holes in *circ. seams 7/8"* Pitch of rivets *2 1/2 x 2 1/8"* Percentage of strength of circ. seams *plate 56.25 rivets 49.5* of Longitudinal joint *plate 72.5 rivets 11.4 combined*

Working pressure of shell by rules *143.5 lb sq in* Thickness of butt straps *outer 7/16" inner 7/16"*

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat *Flat* Material *S. K. steel*

Tensile strength *26/30 Tons* Thickness *1/16"* Radius *-* Working pressure by rules *690 lb*

Description of Furnace: Plain, spherical, or dished crown *dished* Material *S. K. steel* Tensile strength *26/30 Tons*

Thickness *1 1/16"* External diameter *top 5'-2 1/8" bottom -* Length as per rule *8'-1 1/2"* Working pressure by rules *110 lb sq in*

Pitch of support stays circumferentially *-* and vertically *-* Are stays fitted with nuts or riveted over *-*

Diameter of stays over thread *-* Radius of spherical or dished furnace crown *4'-6"* Working pressure by rule

Thickness of Ogee Ring *1"* Diameter as per rule *D 5'-11" a 5'-2 1/8"* Working pressure by rule *214 lb sq in*

Combustion Chamber: Material *-* Tensile strength *-* Thickness of top plate *-*

Radius if dished *-* Working pressure by rule *-* Thickness of back plate *-* Diameter if circular *-*

Length as per rule *-* Pitch of stays *-* Are stays fitted with nuts or riveted over *-*

Diameter of stays over thread *-* Working pressure of back plate by rules *-*

Tube Plates: Material *-* Tensile strength *-* Thickness *-* Mean pitch of stay tubes in nests *-*

If comprising shell, Dia. as per rule *-* Pitch in outer vertical rows *-* Dia. of tube holes FRONT *-* BACK *-*

Is each alternate tube in outer vertical rows a stay tube *-* Working pressure by rules *-*

Girders to combustion chamber tops: Material *-* Tensile strength *-*

Depth and thickness of girder at centre *-* Length as per rule *-*

Distance apart *-* No. and pitch of stays in each *-* Working pressure by rule *-*

WS16-0341

© 2019

Lloyd's Register Foundation

Crown stays: Material ☒ Tensile strength ☒ Diameter ☒ { at body of stay, or over threads. ☒
 No. of threads per inch ☒ Area supported by each stay ☒ Working pressure by rules ☒
Screw stays: Material ☒ Tensile strength ☒ Diameter ☒ { at turned off part, or over threads. ☒ No. of threads per inch ☒
 Area supported by each stay ☒ Working pressure by rules ☒ Are the stays drilled at the outer ends ☒
Tubes: Material *S. W. Steel* External diameter *plain 3 1/4" & 2 1/4"* Thickness *6 B.W.G.*
 No. of threads per inch ☒ Pitch of tubes ☒ Working pressure by rules ☒
Manhole Compensation: Size of opening in shell plate ☒ Section of compensating ring ☒ No. of rivets and diameter of rivet holes ☒ Outer row rivet pitch at ends ☒ Depth of flange if manhole flanged ☒
Uptake: External diameter *8' - 10 3/8"* Thickness of uptake plate *1 1/16"*
Cross Tubes: No. ☒ External diameters ☒ Thickness of plates ☒

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

Annual Survey Report

The foregoing is a correct description,

BABCOCK & WILCOX LTD

Boiler Branch Manufacturer.

Dates of Survey ☒ During progress of work in shops - *1929 Dec 8 1930 Jan 2 9 15 22 27 31 Feb 16* Is the approved plan of boiler forwarded herewith *Yes*
 while building ☒ During erection on board vessel - *22/11/29* (If not state date of approval.)
 Total No. of visits *8*

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

This boiler has been built under special survey and in accordance with the Rules and approved plan as per Secty's letter 22/11/29. The materials and workmanship are good.

This boiler has been efficiently fastened on an upper deck platform in the funnel of the vessel. The safety valves have been adjusted under steam to 100 lbs. under oil fired conditions and under exhaust gases (at 390°F) the accumulation did not exceed 8 lbs.

R Lee Ames
Beefast

Survey Fee ... £ *14:4* When applied for, *1.2* 19 *30*
 Travelling Expenses (if any) £ *1:19* When received, *5 June* 19 *30*

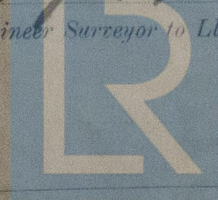
FRI. 4 JUL 1930

Committee's Minute

Assigned

See F.E. Rpt.

Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register
Foundation