

REPORT ON BOILERS.

No. 17944

Received at London Office 7 MAY 1932

Date of writing Report 6.5.32 When handed in at Local Office 6-5-32 Port of Grimsby
 Survey held at Lincoln Date, First Survey 17.11.1931 Last Survey 14.4.1932
 on the (Number of Visits 23) Tons Gross Net
 Built at Monfalcone By whom built Cantieri Riuniti dell'Adriatico Yard No. 249 When built
 Engines made at By whom made Engine No. When made
 Boilers made at Lincoln By whom made Babcock & Wilcox, Ltd. Boiler Nos 73/4624 When made 1932
 Owners Port belonging to

VERTICAL DONKEY BOILER.

Made at Lincoln By whom made Babcock & Wilcox, Ltd. Boiler No 73/4624 When made 1932 Where fixed
 Manufacturers of Steel Parkgate Works Ltd. Fordingham 1st St. Rd. Cooper & Turner Ltd.
 Total Heating Surface of Boiler 500 sq. ft. Is forced draught fitted Coal or Oil fired
 No. and Description of Boilers Two, Blackstone, water heat. Working pressure 100 lb.
 Tested by hydraulic pressure to 200 lb. Date of test 14.4.32 No. of Certificate 325-326
 Area of Firegrate in each Boiler none No. and Description of safety valves to each boiler One, 2 1/4 duplex, marine type
 Area of each set of valves per boiler per rule 5.50 sq. ft. as fitted 7.96 sq. ft. Pressure to which they are adjusted 100 lb. Are they fitted with easing gear
 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 7'-8" Height 14'-4 1/2"
 Shell plates: Material S. L. steel Tensile strength 28/32 T. Thickness 1/2"
 Are the shell plates welded or flanged 40 Description of riveting: circ. seams end S. L. lap inter. S. L. Long. seams D. R. D. B. S.
 Dia. of rivet holes in circ. seams 7/8" Pitch of rivets 2" Percentage of strength of circ. seams plate 56.2 rivets 49.5 of Longitudinal joint plate 72 rivets 110 combined
 Working pressure of shell by rules 111 lbs. Thickness of butt straps outer 7/16" inner 7/16"
 Crown: Whether complete hemisphere, dished partial spherical, or flat dished Material S. L. steel
 Tensile strength 26/30 T. Thickness 3/4" Radius 6'-0" Working pressure by rules 103 lb.
 Description of Furnace: Plain, spherical, or dished crown dished Material S. L. steel Tensile strength 26/30 T.
 Thickness 7/8" External diameter top 4'-7 3/4" bottom Length as per rule 6'-10 1/2" Working pressure by rules 102 lb.
 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'-0" Working pressure by rule 118 lb.
 Thickness of Ogee Ring bot. dished end 7/8" Diameter as per rule Working pressure by rule 108 lb.
 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
 Head Plates: Material front S. L. steel Tensile strength 26/30 T. Thickness 7/8" Mean pitch of stay tubes in nests
 Comprising shell, Dia. as per rule front 4'-7 3/4" Pitch in outer vertical rows Circ. P. 5.08 Dia. of tube holes FRONT stay 3 1/4" BACK stay
 back 4'-7 3/4" (Thin Tubes) plain 3 1/4" plain
 Each alternate tube in outer vertical rows a stay tube no stays Working pressure by rules front 102 lb. back
 Stays to combustion chamber tops: Material Tensile strength
 Position and thickness of girder at centre Length as per rule
 Distance apart No. and pitch of stays in each Working pressure by rule

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.D. h. S.* External diameter ☒ plain *3 1/4" & 2 1/4"* Thickness ☒ *6 B.W. 8*

No. of threads per inch ☒ Pitch of tubes ☒ Working pressure by rules ☒

Manhole Compensation: Size of opening in shell plate *19" x 15"* Section of compensating ring *4 1/2" x 1"* No. of rivets and diameter of rivet holes *44, 15/16" holes* Outer row rivet pitch at ends *3.3"* Depth of flange if manhole flanged ☒

Uptake: External diameter ☒ *3'-1 1/8"* Thickness of uptake plate *9/16"* ☒

Cross Tubes: No. ☒ External diameters ☒ Thickness of plates ☒

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

Annual Survey Request.

The foregoing is a correct description,
E. J. Jones for Babcock & Wilcox Co. Manufacturer.

Dates of Survey while building ☒ During progress of work in shops - ☒ *1931 Nov 17, 25, 29, Dec 4, 10, 18, 30, 31*
☒ During erection on board vessel - ☒ *1931 Jan 6, 15, 22, 26, Feb 8, 11, 18, 23, 25, Mar 11, 24, Apr 1, 5, 11, 14*

Is the approved plan of boiler forwarded herewith ☒ (If not state date of approval.) *See Secretary's letter of 21st October 1931 to Messrs Blackston.*

Total No. of visits *23.*

Is this Boiler a duplicate of a previous case ☒ *no* If so, state Vessel's name and Report No. ☒

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *These boilers have been built under special survey and in accordance with the Rules and approved plans as per the Secretary's letter of the 21st October, 1931 to Messrs The Blackston & Thimble Tube Boiler Co. Ltd. The materials and workmanship are good*

Survey Fee ... £ *8: 8* :☒ When applied for, *3. 5.* 19 *32*
 Travelling Expenses (if any) £ *3: 19* :☒ When received, *13. 6.* 19 *32*

W. H. Kinley
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute *TUE. 19 JUL 1932*
 Assigned *See J. E. Rpt.*