

REPORT ON BOILERS.

No. 16297

Received at London Office

13 APR 1929

Date of writing Report 12.4.1929 When handed in at Local Office 12.4.1929 Port of Grimsby

No. in Survey held at Lincoln Date, First Survey 5-2-29 Last Survey 4.4.1929

Reg. Book on the (Number of Visits 9) Gross Tons Net

Built at Yokohama By whom built Yokohama Dock Co. Yard No. 7 When built

Engines made at By whom made Engine No. When made

Boilers made at Lincoln By whom made Babcock & Wilcox Ltd. Boiler No. 734594 When made 1929

Owners Port belonging to

VERTICAL DONKEY BOILER.

Made at Lincoln By whom made Babcock & Wilcox Ltd. Boiler No. 734594 When made 1929 Where fixed -

Manufacturers of Steel Parkgate Iron Works.

Total Heating Surface of Boiler 350 sq. ft. Is forced draught fitted - Coal or Oil fired Oil & Gas

No. and Description of Boilers One, Clarkson waste heat. Working pressure 100 lb.

Tested by hydraulic pressure to 200 lb. Date of test 22nd March 1929 No. of Certificate 262

Area of Firegrate in each Boiler 40 No. and Description of safety valves to each boiler Two spring loaded

Area of each set of valves per boiler { per rule 4.56 " as fitted 6.28 " Pressure to which they are adjusted - 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 or woodwork -

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 5'-0" Height 8'-3 7/8"

Shell plates: Material S. L. steel Tensile strength 28/32 T. Thickness 7/16"

Are the shell plates welded or flanged R. K. Lap. Description of riveting: circ. seams { end S. R. & D. R. Lap. intr. S. K. Lap. long. seams D. R. Lap.

Dia. of rivet holes in { circ. seams 13/16" Pitch of rivets { 1 7/8" & 2 5/8" Percentage of strength of circ. seams { plate 57.69 of Longitudinal joint { plate 69 rivets 52.74 rivets 74 combined 75

Working pressure of shell by rules 133 lb. Thickness of butt straps { outer - inner -

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

Tensile strength 26/30 T. Thickness 5/8" Radius - Working pressure by rules 230 lb.

Description of Furnace: Plain, spherical, or dished crown dished Material S. L. steel Tensile strength 26/30 T.

Thickness 13/16" External diameter { top 4'-1 1/2" Length as per rule 5'-2 1/2" Working pressure by rules 112 lb. bottom 4'-1 5/8"

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 3'-8" Working pressure by rule 117 lb.

Thickness of Ogee Ring 7/8" Diameter as per rule { D 4'-11 5/8" Working pressure by rule 18182 lb. a 4'-1 5/8"

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 { front back Tensile strength Thickness Mean pitch of stay tubes in nests

If comprising shell, Dia. as per rule { front back Pitch in outer vertical rows { Dia. of tube holes FRONT { stay plain BACK { stay plain

Is each alternate tube in outer vertical rows a stay tube Working pressure by rules { front back

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

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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. L. Steel* External diameter { plain *3 1/2* stay _____ Thickness { *6 Bwg.*

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 _____ Thickness of uptake plate _____

Cross Tubes: No. _____ External diameters { _____ Thickness of plates _____

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

The foregoing is a correct description,
J. H. Wilcox **WILCOX & WILCOX LTD**
 (Lincoln Branch). Manufacturer.

Annual Survey Request

Dates of Survey { During progress of work in shops - - } *1929 Feb 5-13 22-26 Mar 7-8 15-22 April* Is the approved plan of boiler forwarded herewith (If not state date of approval.) *yes with plan*

while building { During erection on board vessel - - } _____ Total No. of visits *9*

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. The materials and workmanship are good. This boiler has now been despatched to Yokohama*

Survey Fee £ *4 : 4 : -* When applied for, *27. 3. 19*

Travelling Expenses (if any) £ *- : 18/5* When received, *30. 4. 19*

Committee's Minute
 Assigned

FRI, 17 JAN 1930
See YKa J.E. 4445

Engineer Surveyor to Lloyd's Register of Shipping.

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