

REPORT ON BOILERS.

No. 17414

Received at London Office 28 MAR 1943

Date of writing Report 19 When handed in at Local Office 5th March, 1943. Port of MIDDLESBROUGH.

No. in Survey held at Stockton-on-Tees Date, First Survey 14th October, 1942. Last Survey 24th February, 1943.

Reg. Book on the M.V. "SAMANCO" (Number of Visits 11) Tons Gross 8335 Net 4845.

Built at Belfast By whom built Harland & Wolff Ltd Yard No. 1156 When built 1943

Engines made at Belfast By whom made Harland & Wolff Engine No. 1156 When made 1943

Boilers made at Stockton-on-Tees By whom made Stockton Chem: Imp. & Riley Boiler Mfg. Boiler No. 6581. When made 1943.

Owners Pacific Steam Navigation Co Ltd. Port belonging to Liverpool.

THIMBLE TUBE

VERTICAL DONKEY BOILER.

Made at Stockton By whom made Stockton Chem: Imp. & Riley Boiler Mfg. Boiler No. 6581. When made 1943. Where fixed Long Room bottom plate

Manufacturers of Steel Appleby - Frodingham Steel Co. Ltd.

Total Heating Surface of Boiler 258 sq ft Is forced draught fitted yes Coal or Oil fired Oil fired

No. and Description of Boilers 1. "Helon" Thimble Tube Working pressure 100 lbs/sq in

Tested by hydraulic pressure to 200 lbs/sq in Date of test 24/2/43 No. of Certificate 7073

Area of Firegrate in each Boiler ✓ No. and Description of safety valves to each boiler 1 1/2" C.I. Double Safety Valves.

Area of each set of valves per boiler per rule 2.83 2.895 Pressure to which they are adjusted 100 lbs/sq in 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 or woodwork ✓

Is oil fuel carried in the double bottom under boiler ✓ Smallest distance between base of boiler and tank top plating 4'-0"

Is the base of the boiler insulated ✓ Largest internal dia. of boiler 5'-9 3/4" Height 19'-9"

Shell plates: Material Steel Tensile strength 29/32 Thickness 3/8"

Are the shell plates welded or flanged no. Description of riveting: circ. seams end SR, inter SR, Bottom D.R. long. seams DR. - DBS.

Dia. of rivet holes in circ. seams 13/16" Pitch of rivets 2.007 + 2.029 Percentage of strength of circ. seams plate 59.6 + 59.7 rivets 51.6 + 51.5 of Longitudinal joint plate 72.2 + 71.8 rivets 47.5 + 47.9 combined 106.7

Working pressure of shell by rules 104.7 Thickness of butt straps outer 3/8" inner 3/8"

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat Dished Material Steel

Tensile strength 26/30 Thickness 2 1/32" Radius 5'-0" Working pressure by rules 130

Description of Furnace: Plain, spherical, or dished crown Plain Material Steel Tensile strength 26/30

Thickness 3/4" External diameter top 3'-1 1/2" Length as per rule 5'-8 1/2" Working pressure by rules ✓

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 ✓ Working pressure by rule ✓

Thickness of Ogee Ring 2 3/32" Diameter as per rule D 5'-9 3/4" Working pressure by rule a 3'-1 1/2"

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 stay BACK stay

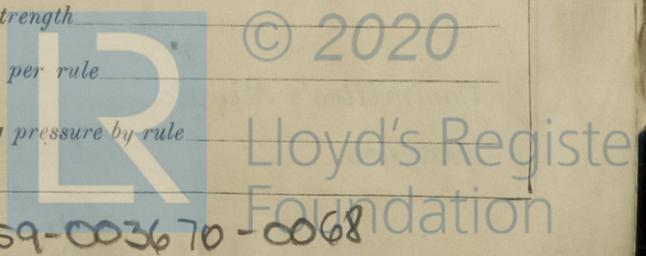
Is each alternate tube in outer vertical rows a stay tube ✓ Working pressure by rules front back ✓

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 ✓

If not, state whether, and when, one will be sent? No. Is a Report also sent on the Hull of the Ship?



0036 59-0036 70-0068

Crown stays: Material _____ Tensile strength _____ Diameter $\left\{ \begin{array}{l} \text{at body of stay} \\ \text{or} \\ \text{over threads} \end{array} \right. \dots \dots \dots$
 No. of threads per inch _____ Area supported by each stay _____ Working pressure by rules _____

Screw stays: Material _____ Tensile strength _____ Diameter $\left\{ \begin{array}{l} \text{at turned off part} \\ \text{or} \\ \text{over threads} \end{array} \right. \dots \dots \dots$ No. of threads per inch _____
 Area supported by each stay _____ Working pressure by rules _____ Are the stays drilled at the outer ends _____

Tubes: Material _____ External diameter $\left\{ \begin{array}{l} \text{plain} \\ \text{stay} \end{array} \right. \dots \dots \dots$ Thickness $\left\{ \begin{array}{l} \dots \dots \dots \\ \dots \dots \dots \end{array} \right. \dots \dots \dots$
 No. of threads per inch _____ Pitch of tubes _____ Working pressure by rules _____

Manhole Compensation: Size of opening in ~~shell~~ ^{cover} plate 16×12 " Section of compensating ring No. of rivets and diameter _____
 of rivet holes Outer row rivet pitch at ends Depth of flange if manhole flanged $2 \frac{7}{8}$ "

Uptake: External diameter $1' - 9 \frac{1}{4}"$ Thickness of uptake plate $5 \frac{1}{8}"$

Cross Tubes: No. _____ External diameters $\left\{ \begin{array}{l} \dots \dots \dots \\ \dots \dots \dots \end{array} \right. \dots \dots \dots$ Thickness of plates _____

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

For and on behalf of
 STOCKPORT STEAM ENGINEERS & BOILER MAKERS LTD.
G. N. Riley Manufacturer.
 DIRECTOR.

Dates of Survey while building $\left\{ \begin{array}{l} \text{During progress of work in shops - } 1941 \text{ Oct. 14, 23, 1942 Jan. 4, 13, Feb. 6, Dec. 4.} \\ \text{During erection on board vessel - } 1943 \text{ Jan. 11, 20, Feb. 8, 13, 24.} \end{array} \right.$ Is the approved plan of boiler forwarded herewith $\text{No. } 19/5/41$.
 (If not state date of approval.)
 Total No. of visits 11

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

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

This boiler has been constructed under Special Survey & in accordance with the Rule Requirements & approved plan.
 The materials & workmanship are good & on completion the boiler was hydraulically tested to 200 lbs/sq. & found satisfactory.
 This boiler has been forwarded to Messrs Harland & Wolff of Belfast for installation on their Colinet No 1156.

This boiler has now been satisfactorily fitted on board the vessel and examined under steam, the safety valves have been adjusted to 100 lbs/sq. and accumulation of pressure test carried out.
 The oil burning installation has been examined under working conditions and found satisfactory.

F. Shaw
 12/8/43.

Survey Fee £ 4 : 4 : } When applied for, 5/3/1943.
 Travelling Expenses (if any) £ : : } When received, 19

L. Inman Street
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 10 SEP 1943

Assigned

see minute on
 Bel. S.S. Rpt.



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