

Rpt. 5a.

REPORT ON BOILERS.

29 JUN 1955 974

Received at London Office.....

Date of writing Report 15 June 1955 When handed in at Local Office 1955 Port of Dundee

No. in Reg. Book. Survey held at Dundee Date, First Survey 27 April 1954 Last Survey 6 June 1955

951565 on the M.V. WOOLWICH (Number of Visits Tons Gross 766.9 Net 414.5)

Built at Dundee By whom built Baledon S.B. & E. Co. Ltd. Yard No. 691 When built 1955

Engines made at Glasgow By whom made Alex. Stephens & Sons, Ltd. Engine No. 108E When made 1954

Boilers made at Dundee By whom made Baledon S.B. & E. Co. Ltd. Boiler No. ✓ When made 1955

MN as per Rule 940 Owners Britanni S.S. Co. Ltd. Port belonging to London

MULTITUBULAR BOILERS ~~MAIN~~, ~~AUXILIARY~~, OR DONKEY. (OIL FIRED & EXHAUST GAS)

Manufacturers of Steel Baledon S.B. & E. Co. Ltd.

Total Heating Surface of Boilers 1885 sq. ft. Of Superheaters None

Total for Register Book 1885 sq. ft. Is forced draught fitted Yes Oil fired & Exh. Gas

No. and Description of Boilers 1-SE byl. Multitubular Working Pressure 150 lb./sq. in.

Tested by hydraulic pressure to 275 lb./sq. in. Date of test 28-1-55 No. of Certificate 1087 Can each boiler be worked separately ✓

Area of Firegrate in each Boiler - No. and Description of safety valves to each boiler 1-2 1/2 dia. imp. H.L. Duff's

Area of each set of valves per boiler { per Rule 7.15 sq. in. as fitted 7.95 sq. in. Pressure to which they are adjusted 150 lb./sq. in. Are they fitted with easing gear Yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No main boiler

Smallest distance between boilers or uptakes and bunkers or woodwork 8'-0" Is oil fuel carried in the double bottom under boilers No

Smallest distance between shell of boiler and tank top plating Boiler & upper deck Is the bottom of the boiler insulated Yes

Largest internal dia. of boilers 13'-0" Length 12'-0" Shell plates: Material SM Steel Tensile strength 29-33

If fusion welded, state name of welding Firm ✓ Have all the requirements of the Rules for Class I vessels

been complied with ✓ Thickness 29/32 Are the shell plates welded or flanged Neither Description of riveting: circ. seams { end DR inter ✓

long. seams TR DBS Diameter of rivet holes in { circ. seams 1" long. seams 1" Pitch of rivets { 3.2" 7"

Percentage of strength of circ. end seams { plate 68.75% rivets 43% Percentage of strength of circ. intermediate seam { plate - rivets -

Percentage of strength of longitudinal joint { plate 85.72% rivets 92.06% combined 89.84%

Thickness of butt straps { outer 11/16 inner 13/16 No. and Description of Furnaces in each Boiler 3 - Dighton section

Material SM Steel Tensile strength 26-30 Smallest outside diameter 37 1/4

Length of plain part { top 13/32 bottom Thickness of plates 13/32 Description of longitudinal joint Welded

Dimensions of stiffening rings on furnace or c.c. bottom None fitted

End plates in steam space: Material SM Steel Tensile strength 26-30 Thickness 1" Pitch of stays 18x12

How are stays secured Nuts both sides

Tube plates: Material { front SM Steel back - Tensile strength 26-30 Thickness 25/32 3/4

Mean pitch of stay tubes in nests 12 3/4 x 8 1/2 Pitch across wide water spaces 13 3/8 x 8 1/2

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

at centre 20 8 1/2 x 23 3/32 Length as per Rule 34 5/8 Distance apart 9 7/8 No. and pitch of stays

in each 20 11 pitch Combustion chamber plates: Material SM Steel

Tensile strength 26-30 Thickness: Sides 11/16 Back 5/8 Top 11/16 Bottom 11/16

Pitch of stays to ditto: Sides 9 7/8 x 11 Back 8 1/4 x 9 3/4 Top 9 7/8 x 11 Are stays fitted with nuts or riveted over Nuts

Front plate at bottom: Material SM Steel Tensile strength 26-30

Thickness 25/32 Lower back plate: Material SM Steel Tensile strength 26-30 Thickness 23/32

Pitch of stays at wide water space 14 x 8 1/4 Are stays fitted with nuts or riveted over Nuts

Main stays: Material SM Steel Tensile strength 28-32 lb./sq. in.

Diameter { At body of stay 2 5/8 or 3 No. of threads per inch 6

Screw stays: Material SM Steel Tensile strength 26-30

Diameter { At turned off part 1 1/2 or 1 1/2 No. of threads per inch 9

Are the stays drilled at the outer ends No Margin stays: Diameter { At turned off part 1 5/8 or 1 3/8 Over threads

No. of threads per inch 9 Tubes: Material PLAIN-EN 8 External diameter { Plain 3 Stay 3 Thickness { 9 W.G. 1/4 - 5/16 No. of threads per inch 9

Pitch of tubes 4 1/4 x 4 1/4 Manhole compensation: Size of opening in shell plate 20 x 16 Section of compensating ring 15 1/4 No. of rivets and diameter of rivet holes 40 - 1 1/8

Outer row rivet pitch at ends 7 3/4 Depth of flange if manhole flanged 3 3/8 Steam Dome: Material None

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 - Thickness of crown - No. and diameter of stays - Inner radius of crown -

How connected to shell - Size of doubling plate under dome - Diameter of rivet holes and pitch 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 off and 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 -

Pressure to which the safety valves are adjusted - Hydraulic test pressure: tubes - forgings and castings - and after assembly in place - Are drain cocks or 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 -

FOR AND ON BEHALF OF THE CALEDON SHIPBUILDING & ENGINEERING CO. LTD.

W. J. Gardner Manufacturer.

Dates of Survey while building { During progress of work in shops - - See oil fired boiler off. Are the approved plans of boiler and superheater forwarded herewith - General Manager M.E.D. (If not state date of approval.)

{ During erection on board vessel - - - - Total No. of visits -

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

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

This boiler has been built under Special Survey in accordance with the approved plans, the requirements of the Society's Rules and the Secretary's letters. The materials and workmanship are good.

On completion of manufacture the boiler was subjected to a hydraulic test pressure of 275 lb/sq. in. and found sound and tight at that pressure.

The boiler has been efficiently installed in the vessel, examined under steam and the safety valves adjusted to 158 lb/sq. in. Accumulation tests were carried out satisfactorily.

Survey Fee ... £ 28 : 10 : - When applied for 17th June 1955

Travelling Expenses (if any) £ - : - : - When received 19

A. B. Sinclair

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW

28 JUN 1955

Assigned

SEE ACCOMPANYING MACHINERY REPORT



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