

REPORT ON BOILERS.

No. 64133

31/7/41

Received at London Office

Date of writing Report 19 When handed in at Local Office 26. 7. 1941 Port of Glasgow

No. in Reg. Bool. Survey held at Glasgow Date, First Survey 25. 10. 40 Last Survey 14. 7. 1941

on the (Number of Visits 16) Tons {Gross Net

Master Built at Thorne By whom built R Dunstan & Co Yard No. 360 When built 19

Engines made at Paisley By whom made McKie, Baxter Ltd Engine No. 1329 When made 1941

Boilers made at Glasgow By whom made John Thompson (Maine Boilers) Ltd Boiler No. 5158 When made 1941

Nominal Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel (Letter for Record S)

Total Heating Surface of Boilers 1356 Is forced draught fitted Coal or Oil fired

No. and Description of Boilers 158 Working Pressure 200 lb

Tested by hydraulic pressure to 350. Date of test 14-7-41. No. of Certificate 20796. Can each boiler be worked separately

Area of Firegrate in each Boiler 36.5. No. and Description of safety valves to each boiler 2 1/2 Langle.

Area of each set of valves per boiler {per Rule 7.9 as fitted 9.8. Pressure to which they are adjusted Are they fitted with easing gear

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Smallest distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers

Smallest distance between shell of boiler and tank top plating Is the bottom of the boiler insulated

Largest internal dia. of boilers 11' 6" Length 11' Shell plates: Material Steel Tensile strength 29-33

Thickness 1 1/2. Are the shell plates welded or flanged No. Description of riveting: circ. seams {end DR Lef. inter. 3 1/2

long. seams TR DBS Diameter of rivet holes in {circ. seams 1 1/8 long. seams 1 1/8 Pitch of rivets 7 3/4

Percentage of strength of circ. end seams {plate 67.85 rivets 43.68. Percentage of strength of circ. intermediate seam {plate rivets

Percentage of strength of longitudinal joint {plate 85.48 rivets 92.47 combined 89.45. Working pressure of shell by Rules 202.

Thickness of butt straps {outer 25/32 inner 29/32 No. and Description of Furnaces in each Boiler 2 Morrison

Material Steel Tensile strength 26-30. Smallest outside diameter 3' 5 3/8

Length of plain part {top 19/32 bottom Thickness of plates {crown 19/32 bottom Description of longitudinal joint Welded

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules

End plates in steam space: Material Steel Tensile strength 26-30. Thickness 1 1/2. Pitch of stays 14 x 13 1/2

How are stays secured Double nut. Working pressure by Rules

Tube plates: Material {front Steel back Tensile strength 26-30. Thickness {7/8 3/4

Mean pitch of stay tubes in nests 8.8" Pitch across wide water spaces 13 1/4" Working pressure {front back

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

at centre 2 @ 8 1/2 x 7/8. Length as per Rule 2' 6" Distance apart 8" No. and pitch of stays

in each 3 - 7 1/2" Working pressure by Rules Combustion chamber plates: Material Steel

Tensile strength 26-30. Thickness: Sides 1/16 Back 1/16 Top 19/32 Bottom 1/16

Pitch of stays to ditto: Sides 7 1/2 x 8" Back 8 1/2 x 8 1/2" Top 7 1/2 x 8" Are stays fitted with nuts or riveted over Yes.

Working pressure by Rules Front plate at bottom: Material Steel Tensile strength 26-30.

Thickness 7/8. Lower back plate: Material Steel Tensile strength 26-30. Thickness 13/16.

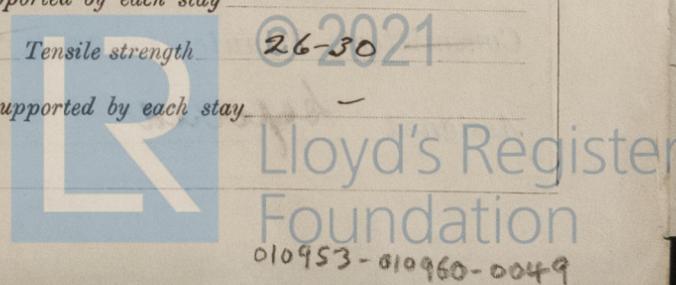
Pitch of stays at wide water space 13 1/4" Are stays fitted with nuts or riveted over Yes.

Working Pressure Main stays: Material Steel Tensile strength 28-32.

Diameter {At body of stay, or Over threads 2 1/2" No. of threads per inch 6. Area supported by each stay

Working pressure by Rules Screw stays: Material Steel Tensile strength 26-30

Diameter {At turned off part, or Over threads 1 5/8 x 1 1/2" No. of threads per inch 9. Area supported by each stay



Working pressure by Rules Are the stays drilled at the outer ends Yes. Margin stays: Diameter $\left\{ \begin{array}{l} \text{At turned off part,} \\ \text{or} \\ \text{Over threads} \end{array} \right. \frac{17}{8}$

No. of threads per inch 9 Area supported by each stay Working pressure by Rules

Tubes: Material SD Steel External diameter $\left\{ \begin{array}{l} \text{Plain} \\ \text{Stay} \end{array} \right. \left. \begin{array}{l} 2\frac{3}{4} \\ 2\frac{3}{4} \end{array} \right.$ Thickness $\left\{ \begin{array}{l} 8 \text{ mm} \\ \frac{5}{16} \text{ or } \frac{3}{16} \end{array} \right.$ No. of threads per inch 9

Pitch of tubes 4 x 3 1/4 Working pressure by Rules Manhole compensation: Size of opening in shell plate 16 x 20 Section of compensating ring 17" x 1 1/2 No. of rivets and diameter of rivet holes 44 @ 1 1/8

Outer row rivet pitch at ends 8 1/2 Depth of flange if manhole flanged 3 1/2 Steam Dome: Material

Tensile strength Thickness of shell Description of longitudinal joint

Diameter of rivet holes Pitch of rivets Percentage of strength of joint $\left\{ \begin{array}{l} \text{Plate} \\ \text{Rivets} \end{array} \right.$

Internal diameter Working pressure by Rules Thickness of crown No. and diameter of stays Inner radius of crown Working pressure by Rules

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 Manufacturers of $\left\{ \begin{array}{l} \text{Tubes} \\ \text{Steel forgings} \\ \text{Steel castings} \end{array} \right.$

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 Working pressure as per Rules 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 JOHN THOMPSON (MARINE BOILERS) LTD. The foregoing is a correct description, R. Findleton 25/7/41 Manufacturer.

Dates of Survey $\left\{ \begin{array}{l} \text{During progress of} \\ \text{work in shops} \end{array} \right. \left. \begin{array}{l} 1940 \text{ Oct. } 25 \\ \text{Dec. } 2 \text{ (1941)} \\ \text{Jan. } 27 \end{array} \right.$ Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)

while building $\left\{ \begin{array}{l} \text{During erection on} \\ \text{board vessel} \end{array} \right. \left. \begin{array}{l} \text{Feb. } 13, 26 \\ \text{Mar. } 11 \\ \text{Apr. } 17 \\ \text{May } 8 \end{array} \right.$ Total No. of visits 16

15: 22, 26 June: 2, 16, 25, 30 July: 14

Is this Boiler a duplicate of a previous case Yes. If so, state Vessel's name and Report No. App- 5-7-40

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boiler has been constructed under Special Survey in accordance with the approved plan and the Society's Rules. The material and workmanship are good. The boiler is made to the order of Messrs McKie & Baxter and intended for Messrs R Dunston, Thorne, Ship No 360.

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26/7/41

Survey Fee £ 9 : - : } When applied for 29 JUL 1941
Travelling Expenses (if any) £ : : } When received, 19

JR Dale
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 29 JUL 1941

Assigned Superica

TUE 9 DEC 1941

See
Sub. J.C. 51411



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