

Bel. 127114



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# REPORT ON BOILERS.

No. 278.

2 JUL 1948

Received at London Office

of writing Report 25-6-1948 When handed in at Local Office 19 Port of LEEDS.

No. in Survey held at Leeds Date, First Survey 1-3-48 Last Survey 25-6-1948 In Shop 6 (Number of Visits) Tons Gross Net

uilt at Belfast By whom built Messrs. Harland & Wolff Ltd. Yard No. 1354 When built Engines made at By whom made Engine No. When made and diameter Boilers made at Leeds By whom made Messrs. Clayton Son & Co. Ltd. Boiler No. 8329, 8330 When made 1948. Port belonging to

## VERTICAL DONKEY BOILER.

ide at Leeds By whom made Clayton Son & Co. Ltd. Boiler No. 8329, 8330 When made 1948 Where fixed Manufacturers of Steel Appleby-Frodingham Steel Co. South Durham Steel & Iron Co.

al Heating Surface of Boiler 550 sq.ft. (each) Is forced draught fitted No Coal or Oil fired Oil Fired

and Description of Boilers Two - Thimble Tube Vertical Donkey Boilers. Working pressure 100 lbs/sq.in.

sted by hydraulic pressure to 200 lbs/sq.in. Date of test 25-6-48 No. of Certificate Blr. No. 8329 - 123 Blr. No. 8330 - 124

a of Firegrate in each boiler O.F. No. and Description of safety valves to each boiler One - Double Spring (2 1/2" dia.)

ea of each set of valves per boiler per rule 5.98 sq.in. as fitted 9.82 sq.in. Pressure to which they are adjusted - Are they fitted with easing gear -

te whether steam from main boilers can enter the donkey boiler Smallest distance between boiler or uptake and bunkers

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 7'-0 3/4" Height 16'-6"

all plates: Material O.H. Steel Tensile strength 28/32 Tons/sq.in. Thickness 7/16"

the shell plates welded or flanged No If fusion welded, state name of welding firm S.R. at top end D.R. at bottom inter. S.R.

all the requirements of the Rules for Class I vessels been complied with Description of riveting: circ. seams

seams D.R. Double Butt Dia. of rivet holes in circ. seams 25/32" Pitch of rivets 2,128" & 2,77" Percentage of strength of circ. seams plate 63.2 rivets 42.3

Longitudinal joint Thickness of butt straps outer 7/16" inner 7/16" Shell Crown: Whether complete hemisphere, dished partial

erical, or flat Dished Partial Spherical Material O.H. Steel Tensile strength 26/30 tons/sq.in. Thickness 13/16"

Radius 6'-0" Description of Furnace: Plain, spherical, or dished crown Dished Material O.H. Steel

ile strength 26/30 tons/sq.in. Thickness 3/8" External diameter top 4'-5.11/16" bottom 4'-5.11/16" Length as per rule

ch of support stays circumferentially No Stays and vertically - Are stays fitted with nuts or riveted over

iameter of stays over thread - Radius of spherical or dished furnace crown 4'-3"

ickness of Ogee Ring 15/16" Diameter as per rule D 84" d 55.9/16"

ubustion Chamber: Material - Tensile strength - Thickness of top plate -

iameter if dished - Thickness of back plate - Diameter if circular -

ength as per rule - Pitch of stays -

stays fitted with nuts or riveted over - Diameter of stays over thread -

ircular. e Plates: Material front O.H. Steel Tensile strength 26/30 Tons/sq.in. Thickness 1.7/32" Mean pitch of stay tubes in nests No Stays. back

omprising shell, Dia. as per rule front Pitch in outer vertical rows - Dia. of tube holes FRONT stay plain 3 1/2" BACK stay plain

ach alternate tube in outer vertical rows a stay tube -

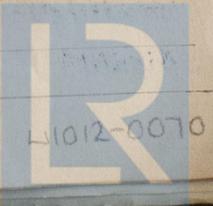
lers to combustion chamber tops: Material - Tensile strength -

er of Shipping. h and thickness of girder at centre - Length as per rule -

ance apart - No. and pitch of stays in each -

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20/7/48

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**Crown stays:** Material - Tensile strength - Diameter { at body of stay, - or over threads, -

**Screw stays:** Material - Tensile strength -

No. of threads per inch - Are the stays drilled at the outer ends -

Diameter { at turned off part, - or over threads, - No. of threads per inch -

Thimble Steel External diameter { plain 3 1/2" to 2 1/4" Thickness { 8 & 6 B.W.G.

**Tubes:** Material Steel Pitch of tubes 6,328" x 3 3/4"

No. of threads per inch -

**Manhole Compensation:** Size of opening in shell plate 16" x 12" Section of compensating ring 5 1/4" x 3/4" (side) No. of rivets and diameter -

of rivet holes 36 25/32" dia. Outer row rivet pitch at ends 4" Flanged 3 3/8" (top) Depth of flange if manhole flanged -

**Uptake:** External diameter 2' - 4 3/8" Thickness of uptake plate 1 1/16"

**Cross Tubes:** No. - External diameters { - Thickness of plates -

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with Yes, where applicable.

The foregoing is a correct description,  
**CLAYTON, SON & CO. LIMITED,**

*h. Stanley*  
DIRECTOR.

Manufacturer

Dates of Survey { During progress of work in shops - 1948. Mar. 1, 5. May 5, 19, 31. June 25. Is the approved plan of boiler forwarded herewith 23-6-47 (If not state date of approval.)

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

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. Harland & Wolff Ltd. Ship No. 1366. Leeds Rpt. 273.

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

These boilers have been constructed under special survey and in accordance with the approved plan, and Secretary's letters.

The materials and workmanship are good.

These boilers will be despatched to Belfast for installation.

Survey Fee ... .. £ 10 : 0 : } When applied for, 1.7.1948

Travelling Expenses (if any) £ : 5 : } When received, 19

*J*

*W. Campbell*  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 22 APR 1948

Assigned See F.E. Mueby. rpb.



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