

5b.

REPORT ON BOILERS.

No. 278.

2 JUL 1948

Received at London Office

of writing Report 25-6-

19 48

When handed in at Local Office

19

Port of

LEEDS.

No. in Survey held at Leeds

Date, First Survey 1-3-48

Last Survey 25-6-19 48.

g. Book

In Shop 6
(Number of Visits)Gross
Tons
Net

on the

Built 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 Nos. 8329, 8330.

When made 1948.

Boilers

Port belonging to

THIMBLE-TUBE

VERTICAL DONKEY BOILER S.

8329, 8330.

Made at Leeds

By whom made

Clayton Son & Co. Ltd.

Boiler Nos.

When made 1948

Where fixed

Manufacturers of Steel

Appleby-Frodingham Steel Co.

South Durham Steel & Iron Co.

Total 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.

Tested by hydraulic pressure to

200 lbs/sq.in. ✓

Date of test 25-6-48

Blr. No. 8329 - 123

No. of Certificate

Blr. No. 8330 - 124

Area of Firegrate in each Boiler

O.F.

No. and Description of safety valves to each boiler

One - Double Spring (2½" dia.) ✓

Area of each set of valves per boiler

per rule 5.98 sq.in. ✓

Pressure to which they are adjusted

as fitted 9.82 sq.in. ✓

Are they fitted with easing gear

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'-0½" ✓

Height 16'-6" ✓

All plates: Material

O.H. Steel

Tensile strength 28/32 Tons/sq.in.

Thickness 7/16" ✓

Are 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.

Do all the requirements of the Rules for Class I vessels been complied with

Description of riveting: circ. seams

g. seams

D.R. Double Butt

Dia. of rivet holes in

circ. seams 25/32" ✓

long. seams 23/32" ✓

Pitch of rivets

2,128" & 2,77" ✓

Percentage of strength of circ. seams

3,07" & 3,02" ✓

plate 63.2

rivets 42.3

Longitudinal joint

plate 76.6 & 76.2

rivets 22.0 & 24.5

combined

Thickness of butt straps

outer 7/16" ✓

inner 7/16" ✓

Shell Crown: Whether complete hemisphere, dished partial

Spherical, or flat

Dished Partial Spherical Material

O.H. Steel

Tensile strength 26/30 tons/sq.in.

Thickness 13/16" ✓

Diameter

6'-0" ✓

Description of Furnace: Plain, spherical, or dished crown

Dished

Material

O.H. Steel

Tensile strength

26/30 tons/sq.in.

Thickness

8" 1 7/32" ✓

External diameter

top 4'-5.11/16" ✓

bottom 4'-5.11/16" ✓

Length as per rule

Pitch of support stays circumferentially

No Stays

and vertically

Are stays fitted with nuts or riveted over

Diameter of stays over thread

Radius of spherical or dished furnace crown 4'-3" ✓

84" ✓

Thickness of Ogee Ring

15/16" ✓

Diameter as per rule

D 55.9/16" ✓

Combustion Chamber: Material

Tensile strength

Thickness of top plate

Diameter if dished

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

Circular.

Front Plates: Material

O.H. Steel

Tensile strength

26/30 Tons/sq.in.

Thickness 1.7/32" ✓

Mean pitch of stay tubes in nests No Stays.

Comprising shell, Dia. as per rule

front

Pitch in outer vertical rows

back

Dia. of tube holes FRONT

stay plain 3½" ✓

BACK

stay plain

Each alternate tube in outer vertical rows a stay tube

Tensile strength

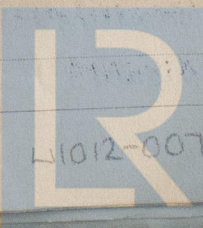
Boilers to combustion chamber tops: Material

Length as per rule

Width and thickness of girder at centre

No. and pitch of stays in each

Distance apart



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5-B 278.

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25 OCT 1948

IN D.O.

Crown stays: Material - Tensile strength - Diameter { at body of stay, - or over threads, - No. in - Survey Reg. Book. -

No. of threads per inch - Screw stays: Material - Tensile strength - Are the stays drilled at the outer ends -

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

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

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

No. of thraeds per inch - Section of compensating ring 5 1/4" x 3/4" (side) No. of rivets and diameter -

Manhole Compensation: Size of opening in shell plate 16" x 12" Flanged 3 3/8" (top) Depth of flange if manhole flanged -

of rivet holes 36. 25/32" dia. Outer row rivet pitch at ends 4" Thickness of uptake plate 1 1/16"

Uptake: External diameter 2' - 4 3/8" Thickness of plates -

Cross Tubes: No. - External diameters { - Yes, where applicable.

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,

L. Clayton
M. J. Clayton Esq. 23, May, 1948

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.)

while building { 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

Committee's Minute FRI. 22 APR 1948

Assigned See F.E. Mutchy. spb.

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

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