

REPORT ON BOILERS.

Std. No. 34200

No. 17764.

Received at London Office

51 JAN 1945

Date of writing Report 27th Dec 1944 When handed in at Local Office 30th Dec 1944 Port of Widdowes Lough.

No. in Surrey held at Reg. Book.

Stichton - a - Jers.

Date, First Survey. 27th Jan.Last Survey. 21st Dec. 1944

on the

WEY BANK.

(Number of Visits 29.)

Gross 7368

Net 4961

Built at Sunderland By whom built Wm. Lewis & Son Ld.

Yard No. 424 When built 1945.

Engines made at Sunderland

By whom made Wm. Lewis & Son.

Engine No. 724 When made 1945.

Boilers made at Stichton - a - Jers

By whom made Stichton & Co. & Riley & Co. Ld.

Boiler No. 6847 When made

Nominal Horse Power

Owners Bank Line Ld.

Port belonging to Glasgow

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Appleby Frodingham Steel Co. Ld.

(Letter for Record 5. ✓)

Total Heating Surface of Boilers

2130 sq ft

Is forced draught fitted

Yes

Coal or Oil fired oil

No. and Description of Boilers

1 SE. Marine ✓

Working Pressure 120 lbs. ✓

Tested by hydraulic pressure to

230 lbs.

Date of test 21/12/44

No. of Certificate 7134

Can each boiler be worked separately

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

1-3" Porter SS. - High Lift.

Area of each set of valves per boiler

per Rule

19.7 sq ft

Pressure to which they are adjusted

120

Are they fitted with easing gear

Yes ✓

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

Yes ✓

Smallest distance between shell of boiler and tank top plating

2' 11"

Is the bottom of the boiler insulated

Yes ✓

Largest internal dia. of boilers

12' 10 9/16"

Length

11' 6"

Shell plates: Material

Steel ✓

Tensile strength

29.33 ✓

Thickness

23/32"

Are the shell plates welded or flanged

No. ✓

Description of riveting: circ. seams

end

DR.

Long. seams

TR. DBS.

Diameter of rivet holes in

circ. seams

1 1/16" ✓

Pitch of rivets

3.238 ✓

Percentage of strength of circ. end seams

plate

67.19

rivets

60.4

Percentage of strength of circ. intermediate seam

plate

5 15/16" ✓

Percentage of strength of longitudinal joint

plate

86.31 ✓

rivets

43.53 ✓

combined

87.84

Thickness of butt straps

outer

9/16"

Material

Steel ✓

No. and Description of Furnaces in each Boiler

3 Lighter Corrugated ✓

Length of plain part

top

✓

Thickness of plates

crown

3/8"

Description of longitudinal joint

Welded.

Dimensions of stiffening rings on furnace or c.c. bottom

End plates in steam space: Material

Steel ✓

Tensile strength

26.30 ✓

Thickness

29/32"

Pitch of stays

8" x 16" ✓

How are stays secured

Fitted double nuts & washers, stays secured this plate.

Tube plates: Material

front

Steel ✓

Tensile strength

26.30 ✓

Thickness

1 1/16" ✓

Mean pitch of stay tubes in nests

9 3/8"

Pitch across wide water spaces

13 1/2" ✓

Girders to combustion chamber tops: Material

Steel ✓

Tensile strength

26.30 ✓

Depth and thickness of girder

at centre

8" - 20 1/16" ✓

Length as per Rule

2' 8 3/8" ✓

Distance apart

10" ✓

No. and pitch of stays

in each

2 - 10" ✓

Combustion chamber plates: Material

Steel ✓

Tensile strength

26.30 ✓

Thickness: Sides

5/8"

Back

9/16" ✓

Top

5/8"

Bottom

5/8" ✓

Pitch of stays to ditto: Sides

10" x 9" ✓

Back

10" x 8 1/4" ✓

Top

10" x 10" ✓

Are stays fitted with nuts or riveted over

nuts.

Front plate at bottom: Material

Steel ✓

Tensile strength

26.30 ✓

Thickness

1 1/16"

Lower back plate: Material

Steel ✓

Tensile strength

26.30 ✓

Thickness

1 1/16" ✓

Pitch of stays at wide water space

13 1/2" ✓

Are stays fitted with nuts or riveted over

nuts.

Main stays: Material

Steel ✓

Tensile strength

28.32

Diameter

At body of stay,

2 3/8" ✓

No. of threads per inch

6 ✓

Screw stays: Material

Steel ✓

Tensile strength

26.30

Diameter

At turned off part,

13/8" - 1 1/2" - 1 5/8" ✓

No. of threads per inch

9. ✓



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Are the stays drilled at the outer ends Yes Margin stays: Diameter { At turned off part, 1 1/2" - 1 5/8" Over threads 1 1/2" - 1 5/8" ✓
No. of threads per inch 9
Tubes: Material L.W. Sta. External diameter { Plain 2 3/4" ✓ Stay 2 3/4" ✓ Thickness { 80.4 ✓ No. of threads per inch 9 ✓
Pitch of tubes 3 3/4" x 3 3/4" ✓ Manhole compensation: Size of opening 44 - 15/16"
shell plate 20" x 16" ✓ Section of compensating ring 7" x 1" ✓ No. of rivets and diameter of rivet holes 44 - 15/16"
Outer row rivet pitch at ends 6" ✓ Depth of flange if manhole flanged ✓ ✓ 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 rivets _____
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 _____ 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 casing gear _____
Pressure to which the safety valves are adjusted _____ Hydraulic test pressure _____
tubes _____ forgings and castings _____ and after assembly in place _____ Are drain cocks _____
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
STOCKTON CHEMICAL ENGINEERS & RILEY BOILERS LTD.
The foregoing is a correct description,
G. M. Riley
DIRECTOR

1944 Jan 27, Feb 25, March 28, April 19, May 4, 10, June 6, 12, 20,
Dates of Survey { During progress of work in shops - July 12, 20, Aug. 2, 9, 16, 30, Sept. 8, 21, Oct. 5, 13, 19 Are the approved plans of boiler and superheater forwarded herewith Yes Work _____
while building { During erection on board vessel - 25, Nov. 2, 7, 16, 21, 28, Dec. 6, 14, 21 (If not state date of approval.)
Total No. of visits 29

Is this Boiler a duplicate of a previous case _____ If so, state Vessel's name and Report No. hidro Rpt. No. 17746

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 130 lbs per sq. inch & found satisfactory.

This boiler is being forwarded to Sunderland per Wm. Dwyer's Contract No. 724.

This boiler has been securely fixed on board the vessel & Safety valves adjusted to working pressure.

For recommendation please see Machinery Report.

Post. Master.

Survey Fee ... £ 14 : 4 : When applied for, 30-12-1944
Travelling Expenses (if any) £ : : When received, 19

G. Norman Hunt
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute FRI. 18 MAY 1945

Assigned See F.E. machy rpt.