

REPORT ON BOILERS.

No. 33576
12 JAN 1943

Received at London Office

Date of writing Report

19

When handed in at Local Office

5 Jan 1943

Port of

Sunderland.

No. in Reg. Book

Survey held at

Sunderland

Date, First Survey

Last Survey

1st Jan 1943

on the

"STAN LODGE"

(Number of Visits

Tons

Gross 5976.50
Net 4042.93

Built at

Sunderland

By whom built

Wm. Pickersill & Son L^{td}

Yard No.

When built

Engines made at

Sunderland

By whom made

G. Clark (1938) L^{td}

Engine No.

When made

Boilers made at

Sunderland

By whom made

G. Clark (1938) L^{td}

Boiler No.

When made

Nominal Horse Power

496

Owners

Stanhope S. S. Co L^{td}

Port belonging to

London.

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Appley Dradingham Steel Co L^{td}

(Letter for Record

S.

Total Heating Surface of Boilers

1486 sq ft

Is forced draught fitted

Yes

Coal or Oil fired

Coal.

No. and Description of Boilers

One Single Ended multitubular return tube marine

Working Pressure

220

Tested by hydraulic pressure to

380

Date of test

20/11/42

No. of Certificate

4464

Can each boiler be worked separately

-

Area of Firegrate in each Boiler

46 sq ft

No. and Description of safety valves to each boiler

Two direct Spring.

Area of each set of valves per boiler

per Rule 9.5 sq in
as fitted 9.8 sq in

Pressure to which they are adjusted

220

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

No.

Smallest distance between shell of boiler and tank top plating

2' 6"

Is the bottom of the boiler insulated

No.

Largest internal dia. of boilers

12' 9 19/32"

Length

11' 6" mean

Shell plates: Material

Steel

Tensile strength

30/34

Thickness

1 13/64"

Are the shell plates welded or flanged

No.

Description of riveting: circ. seams

end

DR Lap.

long. seams

T.R.D.B.S.

Diameter of rivet holes in

circ. seams

1 5/16"

long. seams

1 1/4"

Pitch of rivets

4.052"

8 1/2"

Percentage of strength of circ. end seams

plate

64.61

rivets

42.55

Percentage of strength of circ. intermediate seam

plate

✓

Percentage of strength of longitudinal joint

plate

85.29

rivets

86.21

combined

84.83

Thickness of butt straps

outer 1 5/16"

inner 1 1/16"

No. and Description of Furnaces in each Boiler

Three Corrugated (Brighton)

Material

Steel

Tensile strength

26/30

Smallest outside diameter

3'-1"

Length of plain part

top / bottom /

Thickness of plates

crown 1 9/32"

bottom /

Description of longitudinal joint

weld.

Dimensions of stiffening rings on furnace or on bottom

End plates in steam space

Material

Steel

Tensile strength

26/30

Thickness

front 1 5/32"

Back 1 3/16"

Pitch of stays

14 5/8" x 14 1/2"

How are stays secured

Double nuts.

Tube plates

Material

front Steel

back Steel

Tensile strength

26/30

Thickness

15/16"

13/16"

Mean pitch of stay tubes in nests

10 7/16"

Pitch across wide water spaces

14" x 8 1/4"

Girders to combustion chamber tops

Material

Steel

Tensile strength

28/32

Depth and thickness of girder

at centre

9 3/8" x 5/8" (2)

Length as per Rule

2' 4 15/32"

Distance apart

8 5/8"

No. and pitch of stays

in each

2 @ 10"

Tensile strength

26/30

Thickness: Sides

3/4"

Back

3/4"

Top

3/4"

Bottom

3/4"

Pitch of stays to ditto

Sides

WING 9" x 9 3/4" CENT. 8 3/8" x 9 3/4"

Back

WING 9 1/2" x 8 1/2" CENT. 7 1/8" x 10"

Top

10" x 8 5/8"

Are stays fitted with nuts or riveted over

Nuts.

Front plate at bottom

Material

Steel

Tensile strength

26/30

Thickness

1 5/16"

Lower back plate

Material

Steel

Tensile strength

26/30

Thickness

1"

Pitch of stays at wide water space

14"

Are stays fitted with nuts or riveted over

Nuts.

Main stays

Material

Steel

Tensile strength

28/32

Diameter

At body of stay, or threads

2 7/8"

2.66" eff dia

No. of threads per inch

6

Screw stays

Material

Steel

Tensile strength

26/30

Diameter

At turned off part, or Over threads

1 3/4" - 1 1/8"

(Backs) (Wings)

No. of threads per inch

9



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Are the stays drilled at the outer ends no. Margin stays: Diameter { At turned off part, 1 1/8" + 12" or Over threads

No. of threads per inch 9.

Tubes: Material S.D. Steel External diameter { Plain 3" Stay 3" Thickness { 8 W.G. 5/16" 3/8" No. of threads per inch 9.

Pitch of tubes 4 1/4 x 4 1/8" Manhole compensation: Size of opening in shell plate 16" x 12" Section of compensating ring 1 3/64 x 8 1/8" No. of rivets and diameter of rivet holes 38 @ 1 3/8"

Outer row rivet pitch at ends 9 3/8" Depth of flange if manhole flanged _____ Steam Dome: Material _____

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 _____ 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 _____

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 Yes.

The foregoing is a correct description, Geo. J. Berry Manufacturer.

Dates of Survey { During progress of work in shops - - - Please see Rpt. # Are the approved plans of boiler and superheater forwarded herewith (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 _____ If so, state Vessel's name and Report No. _____

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

This boiler has been constructed under Special Survey in accordance with the approved plan & the rules of the Society. The materials & workmanship are good. On completion the boiler was tested by hydraulic pressure of 38 lbs. & found tight & sound at that pressure. It has been securely fixed on board the vessel & safety valves adjusted to working pressure in accordance with rule requirements.

For recommendation please see machy. rpt.

Survey Fee £ See machy Rpt. When applied for, 19 _____
 Travelling Expenses (if any) £ _____ When received, 19 _____

Geo. J. Berry
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute _____
 Assigned _____ See Std. F.E. 33576

FRI. 22 JAN 1943

