

REPORT ON BOILERS.

No. 14053

Received at London Office 25 JUN 1931

Date of writing Report 8th June 1931 When handed in at Local Office 23-6-31

Port of

No. in Reg. Book. Survey held at

Date, First Survey

Last Survey

1931

35507 on the Twin S.S. "SVEND FOYN"

(Number of Plates)

Tons

Gross 14577

Net 8008

Master

Built at

By whom built

Yard No.

When built

Engines made at

By whom made

Engine No.

When made

Boilers made at

By whom made

Boiler No.

When made

Nominal Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Witkowitz & Co. & British (Guest Keen Baldwins) & Co. Ltd

(Letter for Record)

S

Total Heating Surface of Boilers

14,800 sq. ft.

Is forced draught fitted

Yes

Coal or Oil fired

oil

No. and Description of Boilers

5 single ended

Working Pressure

265 lb.

Tested by hydraulic pressure to

448 lb.

Date of test

3-27-31

No. of Certificate

3792

Can each boiler be worked separately

Yes

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

2 Cockburn's improved high lift.

Area of each set of valves per boiler

per Rule

7.94

as fitted

Pressure to which they are adjusted

270 lb.

Are they fitted with easing gear

No

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

1'-9"

Is oil fuel carried in the double bottom under boilers

No

Smallest distance between shell of boiler and tank top plating

2'-1"

Is the bottom of the boiler insulated

Yes

Largest internal dia. of boilers

16'-0"

Length

12'-3"

Shell plates: Material

Steel

Tensile strength

36/40

Thickness

1 1/32

Are the shell plates welded or flanged

no

Description of riveting: circ. seams

end

D R Lap

long. seams

J. R. & B. S.

Diameter of rivet holes in

circ. seams

1 1/16

long. seams

1 5/8

Pitch of rivets

3 7/8

9 5/8

Percentage of strength of circ. end seams

plate

57.9

rivets

43.4

Percentage of strength of circ. intermediate seam

plate

83.11

rivets

84.2

Percentage of strength of longitudinal joint

plate

83.11

rivets

84.2

combined

83.08

Working pressure of shell by Rules

266 lb.

Thickness of butt straps

outer

1 1/32

inner

1 1/32

No. and Description of Furnaces in each Boiler

4 Deightons

Material

Steel

Tensile strength

26/30

Smallest outside diameter

40 1/4"

Length of plain part

top

bottom

Thickness of plates

crown

3/4

bottom

Description of longitudinal joint

Welded

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

Working pressure of furnace by Rules

274 lb.

End plates in steam space: Material

Steel

Tensile strength

26/30

Thickness

1 5/16"

Pitch of stays

15 5/8" x 19"

How are stays secured

Double nuts

Working pressure by Rules

266 lb.

Tube plates: Material

front

Steel

back

Tensile strength

26/30

Thickness

3/8"

Mean pitch of stay tubes in nests

Wing 7 3/8" x 11 1/4"

Pitch across wide water spaces

13 1/2"

Working pressure

front

285 lb.

back

302 lb.

Girders to combustion chamber tops: Material

Steel

Tensile strength

28/32

Depth and thickness of girder

at centre

Wing 10 3/4" x 1 3/4"

Length as per Rule

37 11/16"

Distance apart

Wing 8 1/2"

No. and pitch of stays

in each

Wing 4

7"

Working pressure by Rules

268 lb.

Combustion chamber plates: Material

Steel

Tensile strength

26/30

Thickness: Sides

23/32"

Back

23/32"

Top

23/32"

Bottom

15/16"

Pitch of stays to ditto: Sides

7 5/8" x 8 5/8"

Back

7 3/4" x 8 1/4"

Top

7 3/4" x 8 5/8"

Are stays fitted with nuts or riveted over

nuts

Working pressure by Rules

270 lb.

Front plate at bottom: Material

Steel

Tensile strength

26/30

Thickness

1"

Lower back plate: Material

Steel

Tensile strength

26/30

Thickness

31/32"

Pitch of stays at wide water space

15" x 8"

Are stays fitted with nuts or riveted over

nuts

Working Pressure

268 lb.

Main stays: Material

Steel

Tensile strength

28/32

Diameter

At body of stay

2 rows 3 1/2"

or

1 row 3 5/8"

No. of threads per inch

6

Area supported by each stay

19" x 15 5/8"

Working pressure by Rules

276 lb.

Screw stays: Material

Steel

Tensile strength

26/30

Diameter

At turned off part,

or

1 3/4"

No. of threads per inch

9

Area supported by each stay

8" x 8"

Working pressure by Rules 283 lb Are the stays drilled at the outer ends no Margin stays: Diameter 2" At turned off part, or Over threads 2"
No. of threads per inch 9 Area supported by each stay 11 1/4 x 8 Working pressure by Rules 274 lb
Tubes: Material Iron External diameter 2 1/2" Thickness 3/8" No. of threads per inch 9
Pitch of tubes 3 3/4 x 3 1/2 w. 3 7/8 c Working pressure by Rules 265 lb Manhole compensation: Size of opening 15"
shell plate 20 1/2 x 16 1/2 Section of compensating ring 24" x 1 1/2" No. of rivets and diameter of rivet holes 36, 1 5/8"
Outer row rivet pitch at ends 9 5/8" Depth of flange if manhole flanged none 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 _____ 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 Smoke box Manufacturers of The Superheater Co Ltd
Number of elements 144 Material of tubes S.D. Steel Internal diameter and thickness of tubes 1 3/4" 9 w.g.
Material of headers Forged Steel Tensile strength _____ Thickness 1/2" 6" int'l dia Can the superheater be shut off and the boiler be worked separately yes Is a safety valve fitted to every part of the superheater which can be shut off from the boiler yes
Area of each safety valve 4.9 sq" Are the safety valves fitted with easing gear yes Working pressure as per Rules 265 lb Pressure to which the safety valves are adjusted _____ Hydraulic test pressure _____
tubes 1000 lb Headers 800 lb and after assembly in place 550 lb Are drain cocks or valves fitted to free the superheater from water where necessary yes
Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with yes

The foregoing is a correct description,
For RICHARDSONS, WESTGARTH & CO. LIMITED.

Manufactured by _____

Dates of Survey During progress of work in shops - - See Machinery Report. 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 yes If so, state Vessel's name and Report No. Vistfold 17033 Rep

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

See accompanying machinery report.

These boilers have been securely fitted aboard and their safety valves have been adjusted and tested under steam with satisfactory results.

Survey Fee £ See Machinery Report. When applied for, 19
Travelling Expenses (if any) £ When received, 19

R. D. Shilston.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 25 AUG '31

Assigned tdmc, S. J.

CERTIFICATE WRITTEN



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Foundation