

5a.

REPORT ON BOILERS.

No. 43285

30 NOV 1932

Received at London Office

Writing Report

19

When handed in at Local Office

29.11.

1932

Port of

Hull

in Survey held at

Hull.

Date, First Survey

15-9-32

Last Survey

21-11-1932

(Number of Visits

16

Gross

423

Tons

Net

163

on the

Steam Trawler "RIFSNES"

Built at

Beverly

By whom built

Rook, Lutton & Furness Ltd

Yard No.

544

When built

1932

es made at

Hull

By whom made

Amos & Smith Ltd

Engine No.

629

When made

1932

rs made at

Hull

By whom made

do

Boiler No.

629

When made

1932

nal Horse Power

104

Owners

J. Oddsson & Co, Ltd.

Port belonging to

Hull

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Steel Company of Scotland Ltd

(Letter for Record

S.)

Heating Surface of Boilers

1890 sq. ft.

Is forced draught fitted

ho

Coal or Oil fired

Coal

and Description of Boilers

One, single ended

Working Pressure

210 lbs.

ed by hydraulic pressure to

365 lbs

Date of test

3.11.32

No. of Certificate

3852

Can each boiler be worked separately

✓

a of Firegrate in each Boiler

51.25 sq. ft.

No. and Description of safety valves to each boiler

Two, spring loaded.

a of each set of valves per boiler

{per Rule

as fitted

11.88 sq. ft.

Pressure to which they are adjusted

210 lbs.

Are they fitted with easing gear

Yes

ase of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Is oil fuel carried in the double bottom under boilers

ho

allest distance between boilers or uptakes and bunkers or woodwork

8"

Is the bottom of the boiler insulated

✓

ildest distance between shell of boiler and tank top plating

Description of riveting: circ. seams

end

gest internal dia. of boilers

144"

Length

129"

Shell plates: Material

Steel

Tensile strength

29/30 Tons.

ckness

1 1/2"

Are the shell plates welded or flanged

✓

Description of riveting: circ. seams

inter

g. seams

T.R. 58.8"

Diameter of rivet holes in

{circ. seams

{long. seams

1 1/2"

Pitch of rivets

94"

centage of strength of circ. end seams

{plate

65.8

{rivets

42.5

Percentage of strength of circ. intermediate seam

{plate

{rivets

centage of strength of longitudinal joint

{plate

85.4

{rivets

84.7

Working pressure of shell by Rules

211 lbs. 0"

ickness of butt straps

{outer

1 1/2"

{inner

1 1/2"

No. and Description of Furnaces in each Boiler

One plain.

aterial

Steel

Tensile strength

28/30 Tons.

Smallest outside diameter

42 7/8"

ngth of plain part

{top

49"

{bottom

Thickness of plates

{crown

5 1/4"

{bottom

Description of longitudinal joint

Butt.

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

Working pressure of furnace by Rules

218 lbs. 0"

id plates in steam space: Material

Steel

Tensile strength

28/30 Tons

Thickness

1 1/2"

Pitch of stays

20" x 18"

ow are stays secured

Double nuts & washers.

Working pressure by Rules

211 lbs. 0"

be plates: Material

{front

Steel

{back

Tensile strength

28/30 Tons.

Thickness

1 1/2"

Working pressure

{front 238 lbs.

{back 268 lbs.

ean pitch of stay tubes in nests

10.4

Pitch across wide water spaces

13 1/4"

Working pressure

{front 238 lbs.

{back 268 lbs.

rds to combustion chamber tops: Material

Steel

Tensile strength

29/30 Tons.

Depth and thickness of girder

centre

9 1/4" x 1 1/4"

Length as per Rule

34"

Distance apart

9 1/2"

No. and pitch of stays

each

8 @ 8"

Working pressure by Rules

212 lbs. 0"

Combustion chamber plates: Material

Steel

ensile strength

28/30 Tons.

Thickness: Sides

4 1/2"

Back

1 1/2"

Top

1 1/2"

Bottom

3/4"

itch of stays to ditto: Sides

9 x 8"

Back

9 1/2 x 8"

Top

9 1/2 x 8"

Are stays fitted with nuts or riveted over

nuts

Working pressure by Rules

214 lbs.

Front plate at bottom: Material

Steel

Tensile strength

28/30 Tons.

Thickness

1 1/2"

Lower back plate: Material

Steel

Tensile strength

28/30 Tons

Thickness

7/8"

Pitch of stays at wide water space

11 1/2 x 8 1/2"

Are stays fitted with nuts or riveted over

nuts

Working Pressure

284 lbs.

Main stays: Material

Steel

Tensile strength

28/30 Tons.

Diameter

{At body of stay,

3 1/2"

{Over threads

No. of threads per inch

6

Area supported by each stay

360 sq. in.

Working pressure by Rules

210 lbs.

Screw stays: Material

Steel

Tensile strength

28/30 Tons

Diameter

{At turned off part,

1 7/8"

{Over threads

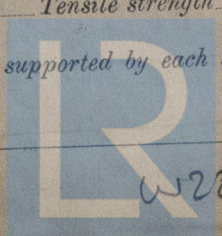
1 1/4"

No. of threads per inch

9

Area supported by each stay

80 sq. in.



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W281-0029

Working pressure by Rules **238 lb** Are the stays drilled at the outer ends **Yes** Margin stays: Diameter { At turned off part, or Over threads **17/8" + 2"**
No. of threads per inch **9** Area supported by each stay **95 sq** Working pressure by Rules **220 lbs**
Tubes: Material **Am** External diameter { Plain **3 1/2"** Stay **3 1/2"** Thickness { **5/16" + 3/8"** No. of threads per inch **9**
Pitch of tubes **4 1/2" x 4 3/4"** Working pressure by Rules **230 lbs** Manhole compensation: Size of opening in shell plate **16" x 12"** Section of compensating ring **56 7/8" dia.** No. of rivets and diameter of rivet holes **60 @ 1 5/8"**
Outer row rivet pitch at ends **10 1/4"** Depth of flange if manhole flanged **25 1/2" dia.** Steam Dome: Material **Steel**
Tensile strength **26 3/30 Tons** Thickness of shell **3/4"** Description of longitudinal joint **S.R.L.**
Diameter of rivet holes **1 3/32"** Pitch of rivets **2 1/4"** Percentage of strength of joint { Plate **54.0** Rivets **43.6**
Internal diameter **36"** Working pressure by Rules **220 lbs** Thickness of crown **1 1/2"** No. and diameter of stays **2 @ 2 1/2"** Inner radius of crown **✓** Working pressure by Rules **220 lbs**
How connected to shell **Riveted** Size of doubling plate under dome **56 7/8" x 14"** Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell **1 9/16" + 10 1/4"**

Type of Superheater

Manufacturers of { Tubes 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 easing gear Working pressure as per Rules
Pressure to which the safety valves are adjusted Hydraulic test pressure: tubes, 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

For AMOS & SMITH LTD.

The foregoing is a correct description,

MANAGER Manufacturer.

Dates of Survey { During progress of work in shops - - - During erection on board vessel - - -

See machinery rep.

Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)

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 built under special survey & the materials & workmanship are sound & good. It has been satisfactorily fitted on board, examined under steam & its safety valves adjusted as above.

Charged on Engine report, sent

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

John H. Mackenzie
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 6 DEC 1932

Assigned

See F.E. rpt. attached



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