

REPORT ON BOILERS.

No. 42957

of writing Report

19

When handed in at Local Office

7 JUL 1932

Port of

Received at London Office

9 JUL 1932

Size of open

in Survey held at

Hull

Date First Survey

10-5-32

Last Survey

4-7-32

1932

(Number of Vents

9

Tons

Gross 283

Net 120

on the

Steam Trawler "Sicyon"

Built at Beverley

By whom built Cook, Welton & Gemmell Ltd.

When built 1906

made at

Hull

By whom made Adams & Smith Ltd.

Engine No.

When made 1906

made at

do

By whom made

do

Boiler No.

4253

When made 1932

Horse Power

87

Owners Standard Steam Fishing Co. Ltd. Port belonging to Grimsby.

TITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel The Steel Co of Scotland Ltd.

(Letter for Record S)

Heating Surface of Boilers

1540 sq ft

Is forced draught fitted No

Coal or Oil fired Coal

Description of Boilers

1 Single ended return tube

Working Pressure

200 lbs

by hydraulic pressure to

350 lbs

Date of test

4-7-32

No. of Certificate

3851

Can each boiler be worked separately

Yes

Firegrate in each Boiler

475 sq ft

No. and Description of safety valves to each boiler

Two 2 1/2" dia Spring loaded

each set of valves per boiler

per Rule 8.96

as fitted 9.75

Pressure to which they are adjusted

200 lbs

Are they fitted with easing gear

Yes

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

distance between boilers or uptakes and bunkers or woodwork

Is oil fuel carried in the double bottom under boilers

distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

internal dia. of boilers

13'-6"

Length

10'-6"

Shell plates: Material

Steel

Tensile strength

29/33 tons

Are the shell plates welded or flanged

No

Description of riveting: circ. seams

end DR

Treble riveted DBS

Diameter of rivet holes in

circ. seams 1 9/32

Pitch of rivets

4"

age of strength of circ. end seams

plate 67.8

rivets 43.1

Percentage of strength of circ. intermediate seam

plate 85.4

age of strength of longitudinal joint

plate 85.4

rivets 92.5

combined 90.4

Working pressure of shell by Rules

200 lbs

of butt straps

outer 29/32

inner 1 1/32

No. and Description of Furnaces in each Boiler

3 plain withdrawable furnaces.

Material

Steel

Tensile strength

26/30 tons

Smallest outside diameter

39 5/8"

plain part

top 80"

bottom 74"

Thickness of plates

crown 13/16"

bottom 13/16"

Description of longitudinal joint

Welded

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

Yes

Working pressure of furnace by Rules

215 lbs

es in steam space: Material

Steel

Tensile strength

26/30 tons

Thickness

1 1/8"

Pitch of stays

18" x 18"

stays secured

Nuts inside, Washers & Nuts Outside

Working pressure by Rules

202 lbs

es: Material

front Steel

back Steel

Tensile strength

26/30 tons

Thickness

15/16"

7/8"

h of stay tubes in nests

9 5/8"

Pitch across wide water spaces

14"

Working pressure

front 212 lbs

back 298 lbs

combustion chamber tops: Material

Steel

Tensile strength

29/33 tons

Depth and thickness of girder

9 1/2" x 2 @ 7/8"

Length as per Rule

31"

Distance apart

9"

No. and pitch of stays

3 @ 8 1/4"

Working pressure by Rules

284 lbs

Combustion chamber plates: Material

Steel

strength

26/30 tons

Thickness: Sides

1/16"

Back

1/16"

Top

1/16"

Bottom

1/16"

stays to ditto: Sides

8 1/4" x 9 1/2"

Back

8" x 9"

Top

8 1/4" x 9"

Are stays fitted with nuts or riveted over

Nuts

g pressure by Rules

208 lbs

Front plate at bottom: Material

Steel

Tensile strength

26/30 tons

ss

15/16"

Lower back plate: Material

Steel

Tensile strength

26/30 tons

Thickness

7/8"

stays at wide water space

14" x 9"

Are stays fitted with nuts or riveted over

Nuts

g Pressure

227 lbs

Main stays: Material

Steel

Tensile strength

28/32 tons

At body of stay,

3"

No. of threads per inch

6

Area supported by each stay

324"

Over threads

3"

Screw stays: Material

Steel

Tensile strength

26/30 tons

g pressure by Rules

214 lbs

No. of threads per inch

9

Area supported by each stay

79"

At turned off part,

1 3/4"

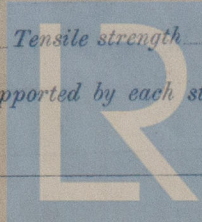
No. of threads per inch

9

Area supported by each stay

79"

Register of Ship

Lloyd's Register
Foundation
W563-026

Working pressure by Rules $230 \frac{lb}{sq. in.}$ Are the stays drilled at the outer ends **No** Margin stays: Diameter $\left\{ \begin{array}{l} \text{At turned off part,} \\ \text{or} \\ \text{Over threads} \end{array} \right. 1 \frac{7}{8}"$
No. of threads per inch **9** Area supported by each stay $99 \frac{sq. in.}{stay}$ Working pressure by Rules $216 \frac{lb}{sq. in.}$
Tubes: Material **Iron** External diameter $\left\{ \begin{array}{l} \text{Plain} \\ \text{Stay} \end{array} \right. 3 \frac{1}{2}"$ Thickness $8 \frac{1}{16}"$ No. of threads per inch **9**
Pitch of tubes $9 \frac{3}{4}" \times 9 \frac{1}{2}"$ Working pressure by Rules $215 \frac{lb}{sq. in.}$ Manhole compensation: Size of opening $15 \times 1 \frac{1}{2}"$ each
shell plate $16" \times 12"$ Section of compensating ring $2-3 \times 2-10 \times 1 \frac{3}{16}"$ No. of rivets and diameter of rivet holes $15 \times 1 \frac{1}{2}"$ each
Outer row rivet pitch at ends $8 \frac{3}{4}"$ Depth of flange if manhole flanged **✓** Steam Dome: Material **Iron**
Tensile strength Thickness of shell Description of longitudinal joint
Diameter of rivet holes Pitch of rivets Percentage of strength of joint $\left\{ \begin{array}{l} \text{Plate} \\ \text{Rivets} \end{array} \right.$
Internal diameter Working pressure by Rules Thickness of crown No. and dia. stays
How connected to shell Inner radius of crown Working pressure by Rules
of rivets in outer row in dome connection to shell Size of doubling plate under dome Diameter of rivet holes in

Type of Superheater Manufacturers of $\left\{ \begin{array}{l} \text{Tubes} \\ \text{Steel castings} \end{array} \right.$
Number of elements Material of tubes Internal diameter and thickness of tubes
Material of headers Tensile strength Thickness Can the superheater be shut
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
Rules Pressure to which the safety valves are adjusted Hydraulic test pressure
tubes castings and after assembly in place Are drain cocks or valves
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,

Dates of Survey $\left\{ \begin{array}{l} \text{During progress of} \\ \text{work in shops} \end{array} \right. 10^{th}, 21^{st}, 26^{th}, 31^{st} \text{ May, } 16^{th}, 21^{st}, 28^{th} \text{ \& } 29^{th} \text{ June, } 4^{th} \text{ July, } 1932$
while building $\left\{ \begin{array}{l} \text{During erection on} \\ \text{board vessel} \end{array} \right.$ Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval)
Total No. of visits **9**

Is this Boiler a duplicate of a previous case **No** 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, and the materials and workmanship are sound and good. The boiler has now been dispatched to Grimsby to be fitted in the vessel.

Survey Fee £ 10-6-0 When applied for, 8.7.1932
Travelling Expenses (if any) £ When received, 21.7.1932

A. W. B. Edwards.
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute FRI. 16 SEP 1932

Assigned See Ins. 18111



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