

REPORT ON BOILERS.

No. 55869

Date of writing Report

19

When handed in at Local Office

15 DEC 1908

Port of

Received at London Office

WFO 16 DEC 1908

No. in Survey held at
Reg. Book.

S. Shields

Date, First Survey

Nov 11

Last Survey

Dec 1st

1908

on the

S.T. "ST. AGNES No. 1"

(Number of Visits)

Gross 205
Net 79

Master

Built at

South Shields

By whom built

J. T. Ultringham & Co

When built

1908

Engines made at

S. Shields

By whom made

J. T. Ultringham

when made

1908

Boilers made at

South Shields

By whom made

J. T. Ultringham & Co (Boiler No 1587)

when made

1908

Registered Horse Power

Owners

R. H. H. and Son

Port belonging to

S. Shields

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

J. Spencer & Sons

(Letter for record

S)

Total Heating Surface of Boilers

1420 sq ft

Is forced draft fitted

no

No. and Description of

Boilers One multitubular cyl

Working Pressure

180 lbs

Tested by hydraulic pressure to

360 lbs

Date of test

28-7-08.

No. of Certificate

7738

Can each boiler be worked separately

Area of fire grate in each boiler

48.0 sq ft

No. and Description of

safety valves to each boiler

Two Spring

Area of each valve

5.9 sq ft

Pressure to which they are adjusted

185 lbs

Are they fitted with easing gear

yes

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

yes

Smallest distance between boilers

or uptakes and bunkers or woodwork

12"

Mean dia. of boilers

13'-0"

Length

10'-3"

Material of shell plates

Steel

Thickness

1 3/32"

Range of tensile strength

28 3/4 - 32

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

L. D. R.

long. seams

D. B. T. R.

Diameter of rivet holes in long. seams

1 1/8"

Pitch of rivets

6 1/2"

Top of plates or width of butt straps

15 3/4"

Per centages of strength of longitudinal joint

rivets 83.2

Working pressure of shell by

rules

185 lbs

Size of manhole in shell

16 x 12"

Size of compensating ring

4 1/2 x 1 3/32"

plate

82.5

No. and Description of Furnaces in each

boiler

Three plain

Material

Steel

Outside diameter

40 1/2"

Length of plain part

top 7 1/4"

bottom 7 1/4"

Thickness of plates

crown 3/4"

bottom 3/4"

Description of longitudinal joint

D. B. S. R.

No. of strengthening rings

1 partial

Working pressure of furnace by the rules

188 lbs

Combustion chamber

plates: Material

Steel

Thickness: Sides

1/16"

Back

2 1/32"

Top

1/16"

Bottom

3/4"

Pitch of stays to ditto: Sides

10 x 8 3/4"

Back

9 1/4 x 8 3/4"

Top

10 1/2 x 8"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

183 lbs

Material of stays

Steel

Diameter at

smallest part

1 1/32"

Area supported by each stay

87.5 sq ft

Working pressure by rules

203 lbs

End plates in steam space: Material

Steel

Thickness

1 1/16"

Pitch of stays

17 1/4 x 1 1/8"

How are stays secured

D. N. T. W.

Working pressure by rules

181 lbs

Material of stays

Steel

Diameter at smallest part

2 2/32"

Area supported by each stay

295.4 sq ft

Working pressure by rules

184 lbs

Material of Front plates at bottom

Steel

Thickness

1"

Material of

Lower back plate

Steel

Thickness

29/32"

Greatest pitch of stays

15 1/4 x 8"

Working pressure of plate by rules

191 lbs

Diameter of tubes

3 1/4"

Pitch of tubes

4 1/2 x 4 1/2"

Material of tube plates

Steel

Thickness: Front

1 1/16 x 1"

Back

2 7/32"

Mean pitch of stays

13 1/2 x 9"

Pitch across wide

water spaces

14 1/4"

Working pressures by rules

184 lbs

Girders to Chamber tops: Material

Steel

Depth and thickness of

girder at centre

6 x 2 1/16"

Length as per rule

2'-7 1/2"

Distance apart

Working pressure by rules

187 lbs

Superheater or Steam chest; how connected to boiler

—

Can the superheater be shut off and the boiler worked

separately

—

Diameter

—

Length

—

Thickness of shell plates

—

Material

—

Description of longitudinal joint

—

Diam. of rivet

—

holes

Pitch of rivets

—

Working pressure of shell by rules

—

Diameter of flue

—

Material of flue plates

—

Thickness

—

—

—

If stiffened with rings

—

Distance between rings

—

Working pressure by rules

—

End plates: Thickness

—

How stayed

—

—

Working pressure of end plates

—

Area of safety valves to superheater

—

Are they fitted with easing gear

—

—

The foregoing is a correct description,

W. T. Ultringham Manufacturer.

Dates

During progress of

work in shops

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while

During erection on

board vessel

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building

As per Machinery report.

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Total No. of visits

GENERAL REMARKS

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

This boiler has been built

under special survey the material and workmanship is sound and good.

This boiler has now been fitted in board the steam vessel.

Survey Fee

...

£

When applied for,

19

Travelling Expenses (if any) £

Charged on Machinery Report

When received,

19

Committee's Minute

Assigned

FRI. 18 DEC 1908

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.



Lloyd's Register Foundation

W1574-0061