

REPORT ON BOILERS.

No. 8922.

Date of writing Report

101

When handed in at Local Office

Apl. 28 1915

S. Port of

Received at London Office THU. APR. 23 1915

Middlesbrough

No. in
Reg. Book.

Survey held at Middlesbrough

Date, First Survey

June 30 1914

Last Survey November 13 1914

on the Boiler No. M2236

S/S Gresham

(Number of Visits

1st)

Gross

Tons

Net

Master

Built at Selby

By whom built Cochrane & Sons

When built

Engines made at

Goathbridge

By whom made

W. V. V. Lidgerwood & Co.

When made

Boilers made at

Middlesbrough

By whom made

Richardsons, Westgarth & Co. Ltd.

When made 1914

Registered Horse Power

Owners

Gt. Northern S.S. Fishing Co. Ltd.

Port belonging to Hull

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel Messrs. Krupp & J. Spencer & Sons Ltd.

(Letter for record

(S) Total Heating Surface of Boilers

810 sq

Is forced draft fitted

No. and Description of

Boilers One S.E. Cy. B. Hull

Working Pressure

200 lbs

Tested by hydraulic pressure to

400 lbs

Date of test 13.11.14

No. of Certificate

5417

Can each boiler be worked separately

✓

Area of fire grate in each boiler

No. and Description of

safety valves to each boiler

2 Spring

Area of each valve

X

Pressure to which they are adjusted

X

Are they fitted with easing gear

X

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

X

Sub

Mean dia. of boilers

Length

Material of shell plates

Steel

Thickness

1"

Range of tensile strength

29-33

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

B.R. Lap

long. seams

B.B.S. Rivets

Diameter of rivet holes in long. seams

1 1/8"

Pitch of rivets

7 1/2"

Lap of plates or width of butt straps

16 1/2"

Per centages of strength of longitudinal joint

rivets

98.2

Working pressure of shell by

rules

205 lbs

Size of manhole in shell

16" x 12"

Size of compensating ring

W. Heils

No. and Description of Furnaces in each

boiler

Two plain

Material

Steel

Outside diameter

3'-3"

Length of plain part

top

5'-2 1/2"

Thickness of plates

crown

4 1/2"

bottom

6 1/4"

Description of longitudinal joint

Welded

No. of strengthening rings

✓

Working pressure of furnace by the rules

202

Combustion chamber

plates: Material

Steel

Thickness: Sides

5/8"

Back

5/8"

Top

5/8"

Bottom

13/16"

Pitch of stays to ditto: Sides

9 x 7 1/4"

Back

8 1/2 x 7 3/4"

Top 9 x 7 1/4"

stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

204

Material of stays

Steel

Area

Diameter at

smallest part

2.07

Area supported by each stay

66

Working pressure by rules

282

End plates in steam space: Material

Steel

Thickness

1"

Area

Diameter at smallest part

5'-0 3/4"

Pitch of stays

15 x 1 1/2"

How are stays secured

by nut

Working pressure by rules

218

Material of stays

Steel

Area

Diameter at smallest part

5'-0 3/4"

Area supported by each stay

217.5

Working pressure by rules

240

Material of Front plates at bottom

Steel

Thickness

1"

Material of

Lower back plate

Steel

Thickness

1"

Greatest pitch of stays

13 3/4 x 7 3/4"

Pitch of tubes

4 3/4 x 4 1/2"

Material of tube plates

Steel

Thickness: Front

1"

Back

3/8"

Mean pitch of stays

9 1/4"

Pitch across wide

water spaces

13 3/4"

Working pressures by rules

204 lbs

Girders to Chamber tops: Material

Steel

Depth and thickness of

girder at centre

7 3/4 x 1 3/4"

Length as per rule

2'-7 1/2"

Distance apart

7 1/4"

Number and pitch of Stays in each

229"

Working pressure by rules

223 lbs

Superheater or Steam chest: how connected to boiler

None

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

✓

For and on behalf of

Are they fitted with easing gear

✓

SURVEY

REQUEST

NO. 942

ATTACHED.

RICHARDSONS, WESTGARTH & Co., Ltd.

The foregoing is a correct description,

M. Jackson.

Manufacturer.

Dates of Survey

During progress of

work in shops - -

while building

During erection on

board vessel - - -

1914 Jun. 30 Jul. 7 14 21 31 Aug. 28 Sep. 22 Oct. 3 12 22

Is the approved plan of boiler forwarded herewith

yes

Total No. of visits

1st

GENERAL REMARKS

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

This boiler has been constructed under Special Survey, is of good material and workmanship, and has been tested by hydraulic pressure with satisfactory results. It has now been sent to Hull to be fitted in the vessel.

Survey Fee

...

...

£

2 : 13-4

When applied for,

To be credited from Glasgow.

Travelling Expenses (if any) £

:

:

:

When received,

877/191

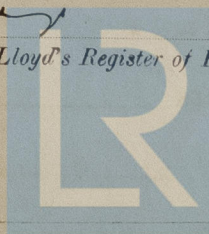
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FRI. JUL. 16. 1915

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

Committee's Minute

Assigned



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Foundation

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