

Rpt. 5a.

## REPORT ON BOILERS.

No. 26019

Received at London Office MON. MAR. 2-1914

MON. MAR. 25. 1914

Date of writing Report

191

When handed in at Local Office

191

Port of

SUNDERLAND

No. in  
Reg. Book.

Survey held at

SUNDERLAND

Date, First Survey

23 Dec. 13 Last Survey

191

on the

New Steel S.S. Hullman

(Number of Visits)

Tons } Gross  
Net

Master

Built at

South Shields

By whom built

Hepple &amp; Co

636 1/2

When built

1914

Engines made at

L. Shies

By whom made

Hepple &amp; Co

When made

1914

Boilers made at

Sunderland

By whom made

North Eastern Marine Eng Co Ltd

When made

1914

Registered Horse Power

Owners

Gray &amp; Co

Port belonging to

Hull

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

J. Spencer &amp; Sons Ltd. Newburn

(Letter for record

(8)

Total Heating Surface of Boilers

1445

Is forced draft fitted

No. and Description of

Boilers

One single ended.

Working Pressure

145 lbs Tested by hydraulic pressure to

350

Date of test

No. of Certificate

3191

Can each boiler be worked separately

Area of fire grate in each boiler

144

No. and Description of

safety valves to each boiler

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

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

Mean dia. of boilers

13'-6"

Length

10'-8 1/2"

Material of shell plates

Steel

Thickness

1 1/2"

Range of tensile strength

283 x 132

Are the shell plates welded or flanged

No.

Descrip. of riveting: cir. seams

D.R.

long. seams T.R.D.D.S.

Diameter of rivet holes in long. seams

1 1/2"

Pitch of rivets

Lap of plates or width of butt straps

18 1/2"

Per centages of strength of longitudinal joint

rivets

89

plate

86.8

Working pressure of shell by

boiler

Three plain

Material

Steel

Outside diameter

3'-2 3/4"

Length of plain part

top

14 1/2"

Thickness of plates

crown

1 1/2"

Description of longitudinal joint

Weld.

No. of strengthening rings

None

Working pressure of furnace by the rules

145 lbs

Combustion chamber

plates: Material

Steel

Thickness: Sides

2 1/2"

Back

1 1/4"

Top

2 1/2"

Bottom

2 1/2"

Pitch of stays to ditto: Sides

8 1/2" x 12 1/4"

Back

4 1/2" x 10 3/4"

Top 8 1/2" x 12 1/4"

If stays are fitted with nuts or riveted heads

None

Working pressure by rules

145 lbs

Material of stays

Steel

Diameter at

smallest part

2 1/4"

Area supported by each stay

10 3/4" x 10 3/4"

Working pressure by rules

145 lbs

End plates in steam space: Material

Steel

Thickness

1 1/2"

Diameter at smallest part

6 1/2"

Pitch of stays

22 1/2" x 1 1/8"

How are stays secured

D.R.

Working pressure by rules

145 lbs

Material of stays

Steel

Diameter at smallest part

6 1/2"

Area supported by each stay

385 sq"

Working pressure by rules

145 lbs

Material of Front plates at bottom

Steel

Thickness

3/4"

Material of

Lower back plate

Steel

Thickness

3/4"

Greatest pitch of stays

14 1/2" x 10 3/4"

Pitch of tubes

4 1/2" x 1 1/8"

Material of tube plates

Steel

Thickness: Front

3/4"

Back

3/4"

Mean pitch of stays

10.6"

Pitch across wide

water spaces

14 1/2"

Working pressures by rules

145 lbs

Girders to Chamber tops: Material

Steel

Depth and thickness of

girder at centre

20 1/2" x 8 3/4"

Length as per rule

2'-4 1/2"

Distance apart

12 3/4"

Number and pitch of Stays in each

2 @ 8 1/8"

Working pressure by rules

145 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

Are they fitted with easing gear

The foregoing is a correct description,

NORTH EASTERN MARINE ENGINEERING CO. LTD

S. T. Harrison

Manufacturer.

Is the approved plan of boiler forwarded herewith

Yes

Total No. of visits

9 +

Dates

During progress of

work in shops - -

1913 Dec 23. 31. Jan 6. 9. 16. 23 Feb. 4. 11. 17

Is the approved plan of boiler forwarded herewith

Yes

Total No. of visits

9 +

During erection on

board vessel - - -

See Newcastle Report No 66128

When applied for,

28. 2. 1914

When received,

19. 6. 1914

Survey Fee

£ 5 : 10 : 0

Travelling Expenses (if any) £

: : : 0

When applied for,

28. 2. 1914

When received,

19. 6. 1914

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

William Dutton

TUE. MAY. 26. 1914

Committee's Minute

Assigned

All minute on P. 8 attached

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Lloyd's Register

Foundation