

REPORT ON BOILERS.

No. 9296

Received at London Office

-6 MAR 1925

of writing Report 2 - 3 - 1925

When handed in at Local Office

Mar 4th 1925

Port of Belfast.

o. in Survey held at

Date, First Survey

Last Survey

Book.

(Number of Visits)

Gross 10602

Net 1924

on the New Steel Y. S. S. "Raymak"

Built at

Greenock

By whom built

Harland & Wolff Ltd

When built

1925

ines made at

Belfast

By whom made

Harland & Wolff Ltd

When made

1925

ers made at

Belfast

By whom made

Harland & Wolff Ltd

When made

1925

stered Horse Power

1949

Owners Peninsular & Oriental Steam Nav Coy

Port belonging to

Greenock

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~—Manufacturers of Steel

Dechville & Sons Ltd

ter for record

S.

Total Heating Surface of Boilers

23496

Is forced draft fitted

yes

No. and Description of

ers

Four double ended (H.P.E.)

Working Pressure

215

Tested by hydraulic pressure to

343

Date of test

19-8-24

of Certificate

844, 843

Can each boiler be worked separately

yes

Equivalent

Area of fire grate in each boiler

146.5

No. and Description of

y valves to each boiler

2 Spring loaded high lift

Area of each valve

12.56

Pressure to which they are adjusted

220 lbs

they fitted with easing gear

yes

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

yes

Test distance between boilers

uptakes and bunkers

24"

Mean dia. of boilers

16'-6"

Length

20'-0"

rial of shell plates

Steel

Thickness

1 1/2"

Range of tensile strength

30 & 33 tons

Are the shell plates welded or flanged

no

rip. of riveting: cir. seams

Centre T.R.

long. seams

T.R.D.B.S.

Diameter of rivet holes in long. seams

1 1/16"

Pitch of rivets

10 1/2"

width of butt straps

1-11"

Per centages of strength of longitudinal joint

87.6

Working pressure of shell by

Size of manhole in shell

16" x 12"

Size of compensating ring

2 @ 2-8 x 3-0"

No. and Description of Furnaces in each

Material

Steel

Outside diameter

3'-4 1/2"

Length of plain part

top

Thickness of plates

crown 5/8"

ription of longitudinal joint

weld.

No. of strengthening rings

yes

Working pressure of furnace by the rules

226.5

Material

Steel

Thickness: Sides

3/32"

Back

Top

3/32"

Bottom

Pitch of stays to ditto: Sides

8" x 8 1/4"

Back

yes

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

239 lbs

Material of stays

Steel

Diameter at

est part

1-16 x 2-06"

Area supported by each stay

66"

Working pressure by rules

234 lbs

End plates in steam space: Material

Steel

Thickness

of stays

16 x 15 1/2"

How are stays secured

D.N. Wash

Working pressure by rules

226.5 lbs

Material of stays

Steel

Diameter at smallest part

supported by each stay

248"

Working pressure by rules

222 lbs

Material of Front plates at bottom

Steel

Thickness

1/8"

Material of

back plate

Thickness

Greatest pitch of stays

yes

Working pressure of plate by rules

Diameter of tubes

of tubes

Material of tube plates

Steel

Thickness: Front

1/8"

Back

13/16"

Mean pitch of stays

9"

Pitch across wide

spaces

13 3/4"

Working pressures by rules

25 1/2 lbs

Girders to Chamber tops: Material

Steel

Depth and thickness of

at centre

2 @ 8" x 1/8"

Length as per rule

4'-2 1/8"

Distance apart

4'-2 1/8" - 8' - 9"

Number and pitch of Stays in each

6 @ 4 1/4"

ing pressure by rules

259 lbs

Superheater or Steam chest: how connected to boiler

none

Can the superheater be shut off and the boiler worked

yes

ately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

Fitted with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

ing pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

The foregoing is a correct description,

FOR HARLAND AND WOLFF, LIMITED.

J.S. Reay Manufacturer.

During progress of

work in shops - -

During erection on

board vessel - - -

Is the approved plan of boiler forwarded herewith

yes

Total No. of visits

yes

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

These Boilers have been built under Special Survey, materials & workmanship good, Hydraulic tests satisfactory. They have been securely fitted in the vessel & Safety valves adjusted under steam.

Survey Fee

...

When applied for,

191

Travelling Expenses (if any)

When received,

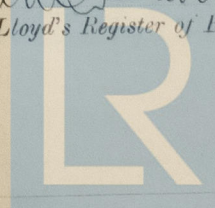
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Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

THURS. 10 MAR 1925

Signed



Lloyd's Register Foundation

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