

REPORT ON BOILERS.

No. 73313

Received at London Office

TUE. JUL. 20 1920

Date of writing Report

19

When handed in at Local Office

17.7.

1920 Port of

Newcastle-on-Tyne

No. in Survey held at
Reg. Book.

Newcastle

Date, First Survey See F.E. Meeley

Last Survey Report

19

27583 on the

S.S.

TAIROA

(Number of Visits)

Gross 10 000
Net 6 400

Master

Built at Newcastle

By whom built Sir H. G. Armstrong Whitworth & Co. Ltd. When built 1920

Engines made at

Newcastle

By whom made

North Eastern Marine Engineering Co. Ltd. When made 1920

Boilers made at

Newcastle

By whom made

do.

When made 1920

Registered Horse Power

1011

Owners

Shaw Savill & Albion Co. Ltd.

Port belonging to Southampton

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel John Spencer & Sons Ltd.

Letter for record

S

Total Heating Surface of Boilers See attached report

Is forced draft fitted

Yes

No. and Description of

Boilers 2. Single-ended

Working Pressure

220

Tested by hydraulic pressure to

440

Date of test

21.11.19

No. of Certificate

9328

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

59.4 sq

No. and Description of

Safety valves to each boiler

Two Spring-loaded

Area of each valve

8.29 sq

Pressure to which they are adjusted

225 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

13"

Mean dia. of boilers

14'-9 1/2"

Length

12'-6"

Material of shell plates

Steel

Thickness

1 3/8"

Range of tensile strength

29 3/4 x 33

Are the shell plates welded or flanged

No

Description of riveting: cir. seams

S.R.

long. seams

J.R. & B. Butts

Diameter of rivet holes in long. seams

1 7/8"

Pitch of rivets

9 1/2"

No. of plates in width of butt straps

21 1/8"

Per centages of strength of longitudinal joint

90.6

Working pressure of shell by

plate

85.1

No. 222

Size of manhole in shell

16x12"

Size of compensating ring

See Reels

No. and Description of Furnaces in each

Boiler 3-Main

Material

Steel

Outside diameter

46 1/4"

Length of plain part

top

Thickness of plates

crown

2 1/2"

Description of longitudinal joint

welded

No. of strengthening rings

Working pressure of furnace by the rules

232

Combustion chamber

Material

Steel

Thickness: Sides

2 3/32"

Back

2 3/32"

Top

2 3/32"

Bottom

1 1/8"

Pitch of stays to ditto: Sides

9 3/4 x 8"

Back

9 3/4 x 8"

9 3/4 x 8"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

225

Material of stays

Steel

Area at

Smallest part

2.360"

Area supported by each stay

780"

Working pressure by rules

272

End plates in steam space: Material

Steel

Thickness

1 3/8"

Each of stays

20 x 19 1/2"

How are stays secured

See Washer

Working pressure by rules

229

Material of stays

Steel

Area at smallest part

9.620"

Area supported by each stay

3900"

Working pressure by rules

250

Material of Front plates at bottom

Steel

Thickness

1 1/2"

Material of

Over back plate

Steel

Thickness

3/32"

Greatest pitch of stays

14"

Working pressure of plate by rules

224

Diameter of tubes

2 1/2"

Each of tubes

3 3/4"

Material of tube plates

Steel

Thickness: Front

1 1/2"

Back

1 3/16"

Mean pitch of stays

9 3/8"

Pitch across wide

Over spaces

14"

Working pressures by rules

222

Girders to Chamber tops: Material

Steel

Depth and thickness of

Over at centre

10 1/8" x 2"

Length as per rule

36"

Distance apart

9 3/4"

Number and pitch of Stays in each

3-8"

Working pressure by rules

228

Steam dome: description of joint to shell

% of strength of joint

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Each of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

Superheater. Type

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Pressure to which each is adjusted

Is Easing Gear fitted

Date of Test

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Pressure to which each is adjusted

Is Easing Gear fitted

Number of Safety Valve

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Pressure to which each is adjusted

Is Easing Gear fitted

The foregoing is a correct description, THE NORTH EASTERN MARINE ENGINEERING CO. LTD.,

Manufacturer.

During progress of

work in shops - - - See F.E. Meeley Report;

While

During erection on

board vessel - - -

Is the approved plan of boiler forwarded herewith

Secretary,

Total No. of visits

151

GENERAL REMARKS

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

These Boilers were constructed under special

reg. The materials and workmanship are sound & good. They were efficiently fitted aboard the vessel.

Safety valves were adjusted under steam

Survey Fee

£

When applied for,

19

Travelling Expenses (if any)

£

When received,

19

Committee's Minute

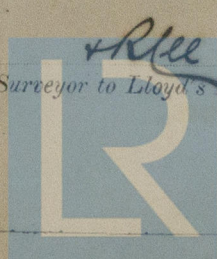
TUE. JUL. 27 1920

Signed

See minute on attached report

Y. Field

Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation

W439-0287