

REPORT ON BOILERS.

No. 27811.

Received at London Office

WED. 9 JUN 1909

Date of writing Report

19

When handed in at Local Office

4/6/1909 Port of Glasgow

Description of Safety

No. in Survey held at

Glasgow

Reg. Book.

Date, First Survey

25th March 1908

Last Survey

26th May 1909.

(Number of Visits 58)

Gross

1077.25

Net

6689.75

4th Sup. on the

R. M. S. "Oltway".

Single Ended Main Boilers

Master

J. I. Symons

Built at

Glasgow

By whom built

Fairfield & B & C^o Ltd

When built

1909

Rivets

Engines made at

Glasgow

By whom made

Fairfield & B & C^o Ltd

when made

1909

Plates

Boilers made at

do

By whom made

do

when made

1909

Registered Horse Power

Owners Ocean Steam Nav^l Co Ltd

Port belonging to

MULTITUBULAR BOILERS

MAIN ~~AUXILIARY OR DONKEY~~

Manufacturers of Steel

W. Beardmore & Co

(Letter for record (S))

Total Heating Surface of Boilers

See Rpt. 4

Is forced draft fitted

Yes

No. and Description of

Boilers

Two Single Ended

Working Pressure

215

Tested by hydraulic pressure to

430 lb

Date of test

27/8/08

No. of Certificate

9661

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

72^{sq}

No. and Description of

safety valves to each boiler

2 Lockburn

Area of each valve

8.296^{sq}

Pressure to which they are adjusted

220 lb

Are they fitted with easing gear

Yes

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

No

Smallest distance between boilers or uptakes and bunkers or woodwork

abt 12"

Mean dia. of boilers

16.6"

Length

11.3"

Material of shell plates

steel

Thickness

1 1/2"

Range of tensile strength

31 to 34

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

D. R. L.

long. seams

D. B. S.

Diameter of rivet holes in long. seams

1 1/2"

Pitch of rivets

10"

Lap of plates or width of butt straps

22 3/4"

Per centages of strength of longitudinal joint

rivets 96

plate 83.4375

Working pressure of shell by

rules

240 lb

Size of manhole in shell

16 x 12

Size of compensating ring

2 in

No. and Description of Furnaces in each

boiler

4 Morrison

Material

steel

Outside diameter

43 1/2"

Length of plain part

top

Thickness of plates

bottom

5/8"

Description of longitudinal joint

weld

No. of strengthening rings

2

Working pressure of furnace by the rules

230

Combustion chamber

plates: Material

steel

Thickness: Sides

7/8"

Back

5/8"

Top

7/8"

Bottom

15/16"

Pitch of stays to ditto: Sides

7 1/2"

Back

7 1/2"

Top

7 1/2"

If stays are fitted with nuts or riveted heads

no

Working pressure by rules

217

Material of stays

steel

Diameter at

smallest part

1.76

Area supported by each stay

6.2

Working pressure by rules

227

End plates in steam space: Material

steel

Pitch of stays

15 1/2"

How are stays secured

D. rule

Working pressure by rules

223

Material of stays

steel

Diameter at smallest part

5.79"

Area supported by each stay

240

Working pressure by rules

250

Material of Front plates at bottom

steel

Thickness

13/16"

Lower back plate

steel

Thickness

1 1/4"

Greatest pitch of stays

13 3/4"

Working pressure of plate by rules

240

Diameter of tubes

2 1/2"

Pitch of tubes

3 3/4"

Material of tube plates

steel

Thickness: Front

2 3/32"

Back

2 3/32"

Mean pitch of stays

8.4"

Pitch across wide

water spaces

13 1/2"

Working pressures by rules

260

Girders to Chamber tops: Material

steel

Depth and thickness of

girder at centre

8 7/8 x 3/4 x 3

Length as per rule

31"

Distance apart

7 1/2"

Number and pitch of Stays in each

3 - 7 1/2"

Working pressure by rules

220

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,

Alex. Cleghorn

MANAGER

Manufacturer.

Is the approved plan of boiler forwarded herewith

Yes

Total No. of visits

Dates

During progress of

work in shops - - -

See Accompanying

Machinery Report.

while

During erection on

board vessel - - -

See Main

Report.

GENERAL REMARKS

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

These boilers have

been constructed under Special Survey & are of good

materials & workmanship. They have been fitted on board

as stated Rpt. 4.

Survey Fee

...

£

See Main

Report.

When applied for.

19.

Travelling Expenses (if any) £

When received.

19.

H. Gardner-Smith

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

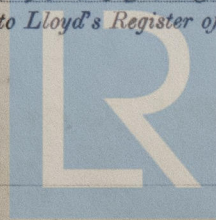
Committee's Minute

GLASGOW

8 JUN. 1909

Assigned

See minute on accompanying report



Lloyd's Register Foundation

W816-0159