

Rpt. 5.

REPORT ON BOILERS.

No. 1559

THUR. DEC 20 1906

Port of Trieste

Received at London Office

10

No. in Survey held at

Trieste

Date, first Survey

12th June

Last Survey

17/12

1906

Reg. Book.

on the

S. S. Vorwaerts

Donkey Boiler

Master

A. Colledani

Built at

Trieste

By whom built

Lloyd Austriaco

When built

1906

Engines made at

Trieste

By whom made

Lloyd Austriaco

when made

1906-12

Boilers made at

Trieste

By whom made

Lloyd Austriaco

when made

1906

Registered Horse Power

669

Owners

Lloyd Austriaco

Port belonging to

Trieste

MULTITUBULAR BOILERS—

MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

Glyde Bridge Steel Co. Ltd.

(Letter for record

Y

Total Heating Surface of Boilers

1243

Is forced draft fitted

no

No. and Description of

Boilers

Single ended multitubular

Working Pressure

180 lbs

Tested by hydraulic pressure to

360 lbs

Date of test

17/9/06

No. of Certificate

66

Can each boiler be worked separately

Area of fire grate in each boiler

36.3

No. and Description of

safety valves to each boiler

2 spring loaded

Area of each valve

4.9

Pressure to which they are adjusted

180 lbs

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

22"

Mean dia. of boilers

11'-6"

Length

9'-8 1/2"

Material of shell plates

steel

Thickness

1 1/32"

Range of tensile strength

28 1/2 tons

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

double riv.

long. seams

double straps

Diameter of rivet holes in long. seams

1 1/8"

Pitch of rivets

7"

Lap of plates on width of butt straps

17 1/2"

Per centages of strength of longitudinal joint

102%

Working pressure of shell by

rules

185 lbs

Size of manhole in shell

16" x 12"

Size of compensating ring

2" m. nails

No. and Description of Furnaces in each

boiler

2 heights

Material

steel

Outside diameter

3'-7 1/4"

Length of plain part

top

Thickness of plates

crown

9 1/16"

Description of longitudinal joint

welded

No. of strengthening rings

1

Working pressure of furnace by the rules

203

Combustion chamber

plates: Material

steel

Thickness: Sides

9 1/16"

Back

9 1/16"

Top

9 1/16"

Bottom

9 1/16"

Pitch of stays to ditto: Sides

7" x 7"

Back

Top

7" x 8 3/8"

If stays are fitted with nuts or riveted heads

riveted out

Working pressure by rules

201

Material of stays

iron

Diameter at

smallest part

1 5/8"

Area supported by each stay

54.25"

Working pressure by rules

286

End plates in steam space: Material

steel

Thickness

1"

Pitch of stays

16" x 16"

How are stays secured

Washers rivet

Working pressure by rules

200

Material of stays

steel

Diameter at smallest part

2 3/4"

Area supported by each stay

256 4"

Working pressure by rules

232

Material of Front plates at bottom

steel

Thickness

1"

Material of

Lower back plate

steel

Thickness

7/8"

Greatest pitch of stays

7" x 7 1/4"

Working pressure of plate by rules

✓

Diameter of tubes

3"

Pitch of tubes

4" x 4 1/8"

Material of tube plates

steel

Thickness: Front

29/32"

Back

3/4"

Mean pitch of stays

8" x 8 1/4"

Pitch across wide

water spaces

13 1/2"

Working pressures by rules

184 lbs

Girders to Chamber tops: Material

steel

Depth and thickness of

girder at centre

8" x 1 1/2"

Length as per rule

29"

Distance apart

8 3/8"

Number and pitch of Stays in each

3-7" x 4"

Working pressure by rules

186

Superheater or Steam chest: how connected to boiler

—

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

—

VERTICAL DONKEY BOILER—

No.

Description

Manufacturers of steel

Made at

By whom made

When made

Where fixed

Working pressure

tested by hydraulic pressure to

No. of Certificate

Fire grate area

Description of safety valves

No. of safety valves

Area of each

Pressure to which they are adjusted

If fitted with easing gear

If steam from main boilers can

enter the donkey boiler

Dia. of donkey boiler

Length

Material of shell plates

Thickness

Range of tensile

strength

Descrip. of riveting long. seams

Dia. of rivet holes

Whether punched or drilled

Pitch of rivets

Lap of plating

Per centage of strength of joint

Rivets

Radius of do.

No. of Stays to do.

Dia. of stays

Diameter of furnace Top

Bottom

Length of furnace

Thickness of furnace plates

Description of joint

Working pressure of furnace by rules

Thickness of furnace crown

plates

Stayed by

Diameter of uptake

Thickness of uptake plates

Thickness of water tubes

The foregoing is a correct description,

Manufacturer.

Dates

of Survey

while

building

During progress of

work in shops

During erection on

board vessel

Total No. of visits

12/6/06

22/6/06

3/7/06

10/7/06

23/7/06

31/7/06

25/8/06

14/9/06

25/9/06

13/11/06

16/12/06

16

Is the approved plan of main boiler forwarded herewith

"

"

"

"

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

Workmanship good.

The Survivors are requested not to write on or behind the space for Committee's Minute

The amount of Entry Fee...	£ 3 : -	:
Special ...	£ 53 : 9	:
Donkey Boiler Fee ...	£ 2 : 2	:
Travelling Expenses (if any) £	:	:

When applied for,

When received,

14/12/1906
22/12/1906

See Machinery Rpt.

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

Committee's Minute

FRI. 21 DEC 1906

Assigned

See minute on attached report



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