

REPORT ON BOILERS.

No. 74783

Date of writing Report

10

When handed in at Local Office

27 SEP 1921

Received at London Office

WFO. 28 SEP. 1921

Port of Newcastle-on-Tyne

No. in Survey held at NEWCASTLE-ON-TYNE

Reg. Book.

Date, First Survey 12 August

Last Survey 7 Sept.

1921

36690 on the twin screw vessel "Bonde de Chirruca"

(Number of Visits)

Gross 4500

Tons Net 2785

Master

Built at Newcastle

By whom built

Armstrong, Whitworth & Co. Ltd. When built 1921

Engines made at Winterthur

By whom made

Sulzer Frères

When made

1920

Boilers made at Newcastle

By whom made

Armstrong, Whitworth & Co. Ltd. When made 1921

Registered Horse Power

Owners Societe Commerciale de Belgique

Port belonging to S. Sebastien

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

Edwards & Sons

(Letter for record)

Total Heating Surface of Boilers

1015 sq

Is forced draft fitted

No

No. and Description of

Boilers One single-end multitubular

Working Pressure

120 lb

Tested by hydraulic pressure to

230 lb

Date of test 8.6.21

No. of Certificate 9568

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

32.5 sq

No. and Description of

safety valves to each boiler

2 spring loaded

Area of each valve

7.07 sq

Pressure to which they are adjusted

125 lb

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

woodwork

62"

Mean dia. of boiler

10'-6"

Length

11'-6"

Material of shell plates

Steel

Thickness

3/32"

Range of tensile strength

28/32 T

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

Dr. Lap.

long. seams

Dr. Double Butts

Diameter of rivet holes in long. seams

7/8"

Pitch of rivets

4 5/8"

Pitch of plates or width of butt straps

9 3/4"

Per centages of strength of longitudinal joint

rivets 91.3

plate 81

Working pressure of shell by

rules

Size of manhole in shell

16"x12"

Size of compensating ring

Inch

No. and Description of Furnaces in each

boiler 2 Brighton

Material

Steel

Outside diameter

43 1/4"

Length of plain part

top

Thickness of plates

crown

bottom

13 1/2"

Description of longitudinal joint

weld

No. of strengthening rings

1

Working pressure of furnace by the rules

143

Combustion chamber

plates: Material

Steel

Thickness: Sides

17/32"

Back

17/32"

Top

17/32"

Bottom

3/4"

Pitch of stays to ditto: Sides

9"x8 7/8"

Back

8 7/8"x9 1/4"

Top

9"x8 7/8" If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

121

Material of stays

Steel

Area at

smallest part

1.190" Area supported by each stay

79.78 sq

Working pressure by rules

124

End plates in steam space: Material

Steel

Thickness

25/32"

Pitch of stays

17 3/4"x11 1/2" How are stays secured

Double nut

Working pressure by rules

123

Material of stays

Steel

Area at smallest part

2.510"

Area supported by each stay

204.1250" Working pressure by rules

128

Material of Front plates at bottom

Steel

Thickness

25/32"

Material of

lower back plate

Steel

Thickness

25/32"

Greatest pitch of stays

13 1/2"

Working pressure of plate by rules

185

Diameter of tubes

3"

Pitch of tubes

4 1/4"x4 1/8" Material of tube plates

Steel

Thickness: Front

25/32"

Back

11/16"

Mean pitch of stays

10 7/8"

Pitch across wide

water spaces

13 1/2"

Working pressures by rules

120

Girders to Chamber tops: Material

Steel

Depth and thickness of

girder at centre

6 3/4"x1 1/2" Length as per rule

32"

Distance apart

8 7/8"

Number and pitch of Stays in each

2-9"

Working pressure by rules

124

Steam dome: description of joint to shell

None

% of strength of joint

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

SUPERHEATER.

Type

None

Date of Approval of Plan

Tested by Hydraulic Pressure to

Date of Test

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

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

For

The foregoing is a correct description,

SIR W. G. ARMSTRONG, WHITWORTH & CO. LIMITED.

Harold J. J. J.

Manufacturer.

See machinery Report

Is the approved plan of boiler forwarded herewith

Total No. of visits

GENERAL REMARKS

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

This Boiler was constructed under special survey. The materials and workmanship are sound and good. It satisfactorily withstood the hydraulic test of 230 lbs. and was efficiently installed on board the vessel.

Survey Fee

£ 7 : 15

When applied for

19

Travelling Expenses (if any) £

When received

19

Committee's Minute

FRI. OCT. 7 1921

Assigned

R. Lee Amner

Engineer Surveyor to Lloyd's Register of Shipping.

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