

REPORT ON BOILERS.

No. 67443

Received at London Office

THU. APR. 29. 1915

Date of writing Report

101

When handed in at Local Office

APR 28 1915

Port of

NEWCASTLE-ON-TYNE

No. in Survey held at

Newcastle

Date, First Survey

Dec 1 1914

Last Survey

Apr 9 1915

Reg. Book.

on the

Messrs Swan Hunter & Wigham Richardson's Contract N° 960
The Sociedad Española de Construcción Naval N° 44

(Number of Visits

9

Gross

Tons

Net

Master

Built at

By whom built

When built

Engines made at

By whom made

When made

Boilers made at

Walker

By whom made

FLANGED

Messrs Swan Hunter & Wigham Richardson

When made

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

John Skenar & Co

Letter for record

Total Heating Surface of Boilers

4480

Is forced draft fitted

No. and Description of

Boilers

Two S & Cyl. Mult.

Working Pressure

180

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

Area of fire grate in each boiler

54

No. and Description of

Safety valves to each boiler

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

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

Smallest distance between boilers or uptakes and bunkers or woodwork

INSIDE

Mean dia. of boilers

13'-9 1/2"

Length 11'-6"

Material of shell plates

Steel

Thickness 1 3/16"

Range of tensile strength 29 1/2 to 33 1/2

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

DR Lap

long. seams

TROB strap

Diameter of rivet holes in long. seams

1 1/4"

Pitch of rivets 8 1/2"

Lap of plates or width of butt straps

18 1/4"

Per centages of strength of longitudinal joint

ribs

Working pressure of shell by

rules

Size of manhole in shell

16" x 12"

Size of compensating ring

9 1/4 x 1 3/8" flanged

plate

No. and Description of Furnaces in each

boiler

3 Deightons

Material

Steel

Outside diameter

42 1/2"

Length of plain part

top

bottom

Thickness of plates

crown

17/32"

bottom

Description of longitudinal joint

weld

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber

plates: Material

Steel

Thickness: Sides

11/16"

Back

21/32"

Top

11/16"

Bottom

13/16"

Pitch of stays to ditto: Sides

9 x 9 1/2"

Back

8 1/2 x 8 1/2"

Top 9 x 9 1/2"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

Material of stays

Steel

AREA

smallest part 2' 0 3/4"

Area supported by each stay

Backs 78' 7"

Working pressure by rules

End plates in steam space: Material

Steel

Thickness

1 1/4"

Pitch of stays 19 x 19"

How are stays secured

ON 2 W

Working pressure by rules

Material of stays

Steel

AREA

Diameter at smallest part

7' 8 1/4"

Area supported by each stay 370' 50"

Working pressure by rules

Material of Front plates at bottom

Steel

Thickness

29/32"

Material of

Lower back plate

Steel

Thickness

29/32"

Greatest pitch of stays

13 1/2 x 8 3/8"

Working pressure of plate by rules

Diameter of tubes

2 1/2"

Pitch of tubes 3 3/4 x 3 3/4"

Material of tube plates

Steel

Thickness: Front

29/32"

Back

3/4"

Mean pitch of stays

11 1/4 x 7 1/2"

Pitch across wide

water spaces 13 1/2"

Working pressures by rules

Girders to Chamber tops: Material

Steel

Depth and thickness of

girder at centre 10" x 1 1/4"

Length as per rule

Distance apart

9"

Number and pitch of Stays in each

two

9 1/2"

Working pressure by rules

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

The foregoing is a correct description,

SWAN, HUNTER & WIGHAM RICHARDSON, LTD.

G. J. Dwyer

Manufacturer.

Dates

During progress of

work in shops

while

During erection on

building

board vessel

Dec 1, 4, 10, 1914 Jan 15, 28, Feb 4, 26, Apr 9, 1915

Is the approved plan of boiler forwarded herewith

yes with

Total No. of visits

9

Ref 67442

GENERAL REMARKS

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

The End, Tube, Combustion chamber and manhole compensating plates have been flanged, annealed, machined & fitted here and have since been despatched to Ferrol where the Boilers are to be constructed the material and workmanship are good. The approved plan is forwarded with SH & WR's N° 960

This report is forwarded for the information of the Committee

Survey Fee

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Report of

When applied for

13/9/15

Travelling Expenses (if any)

£ 10.0

When received

13/9/15

Reginald & Bain

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

Committee's Minute

Assigned



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Lloyd's Register

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