

REPORT ON BOILERS.

No. 41514

Received at London Office

WED. 23 NOV. 1921

SAT. DEC. 16 1922

Date of writing Report

No. in

eg. Book

ister

ines made at

ilers made at

gistered Horse Power

When handed in at Local Office

4/6/1921 Port of Glasgow

Date, First Survey 4th Nov 1920 East Survey 5th May 1921

(Number of Visits 29)

Gross 6654

Net 3843

When built 1922

When made 1921

When made 1921

Port belonging to Genoa

Owners

MULTITUBULAR BOILERS

MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel Stal Co of Scotland & Renfrew

etter for record

Total Heating Surface of Boilers 1202

Is forced draft fitted

No. and Description of

ilers

One single ended multitubular

Working Pressure 12 lbs

Tested by hydraulic pressure to 240

Date of test 29/4/21

o. of Certificate

15809

Can each boiler be worked separately

Area of fire grate in each boiler 31.6

No. and Description of

ety valves to each boiler

2-3" dia Spring loaded

Area of each valve 4.06

Pressure to which they are adjusted 125 lbs.

re they fitted with easing gear

Yes

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

ho

allest distance between boilers or uptakes and bunkers or woodwork

Distant

dia. of boilers 11'-2"

Length 10'-15/8"

aterial of shell plates

S

Thickness 11/16"

Range of tensile strength 28-32 tons

Are the shell plates welded or flanged

ho

escrip. of riveting: cir. seams

L.D.R.

long. seams

D.R. D.Staps

Diameter of rivet holes in long. seams 7/8"

Pitch of rivets 4 3/4"

Working pressure of shell by

or width of butt straps

9 3/4"

Per centages of strength of longitudinal joint

plate 81.5

Working pressure of shell by

les

Size of manhole in shell 16" x 12"

Size of compensating ring 28" x 24" x 13/16"

No. and Description of Furnaces in each

oiler

Two Corrugated

Material S

Outside diameter 42"

Length of plain part

Thickness of plates

25"

escription of longitudinal joint

laced

No. of strengthening rings 4

Working pressure of furnace by the rules 127

Combustion chamber

lates: Material

S

Thickness: Sides 7/32"

Back 17/32"

Top 17/32"

Bottom 7/32"

Pitch of stays to ditto: Sides 9" x 8" Back 9" x 8"

op 9" x 8" If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules 134

Material of stays

S

allest part

1' 19"

Area supported by each stay 72

Working pressure by rules 132

End plates in steam space: Material

S

Thickness 13/16"

Pitch of stays

16" x 5"

How are stays secured

S. nuts

Working pressure by rules 123

Material of stays

S

Area at smallest part 287

Area supported by each stay

240

Working pressure by rules 125

Material of Front plates at bottom

S

Thickness 13/16"

ower back plate

Thickness 13/16"

Greatest pitch of stays 13 1/2" x 8"

Working pressure of plate by rules 185

Diameter of tubes 2 1/2"

Pitch of tubes

3 3/4" x 3 1/16"

Material of tube plates

S

Thickness: Front 13/16"

Back 3/4"

Mean pitch of stays 11 3/16"

Pitch across wide

ater spaces

13 1/2"

Working pressures by rules

120

Girders to Chamber tops: Material

S

Depth and thickness of

arder at centre

6" x 1 1/4"

Length as per rule

25 19/32

Distance apart

8"

Number and pitch of Stays in each 2 @ 9"

Working pressure by rules 122

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

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

UPERHEATER. Type

✓

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

✓

Is Easing Gear fitted

Diameter of Safety Valve

✓

Pressure to which each is adjusted

✓

VERTICAL DONKEY BOILER

No.

Description

Manufacturers of steel

Made at

By whom made

When made

Where fixed

Working pressure

ested by hydraulic pressure to

Date of test

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

length

Descrip. of riveting long. seams

Dia. of rivet holes

Whether punched or drilled

Pitch of rivets

ap of plating

Per centage of strength of joint

Rivets

Working pressure of shell by rules

Thickness of shell crown plates

adius 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

ates

Radius of do.

Stayed by

Diameter of uptake

Thickness of uptake plates

Thickness of water tubes

ALEXANDER STEPHEN & SONS, LIMITED

Manufacturers

Manufacturer.

Dates

Survey

while

building

During progress of work in shops

During erection on board vessel

Total No. of visits

1920 Nov 4 Dec 8 17 21 27 (1921) Jan 12 18 25 28 Feb 7 11 17 21 Mar 3 8 14 22 30 Apr 1 6 7 13 18 20 22 25 29

May 3 5

29

Is the approved plan of main boiler forwarded herewith

ho

" donkey "

Lloyd's Register

007496-007505-0287

GENERAL REMARKS

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

This boiler has been built under Special Survey and in accordance with the Rules; the materials and workmanship are sound & good. On completion it was tested by hydraulic pressure to 240 lbs per sq inch and found tight and satisfactory in all respects.

This boiler has been securely fitted aboard and its safety valves have been adjusted under steam.

M. R. A.

Certificate (if required) to be sent to
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee .. £ : : When applied for
Special .. £ : : 19
Donkey Boiler Fee .. £ : : When received.
Travelling Expenses (if any) £ : : 19

Committee's Minute

GLASGOW 22 NOV 1921

Assigned

Deferred

J. S. S. S.

Engineer Surveyor to Lloyd's Register of Shipping

FRI. 29 DEC. 1922

FRI. JAN. 20 1923

Lloyd's Register
Foundation