

## REPORT ON BOILERS.

No. 25226

Port of Glasgow

Received at London Office

THUR. 9 MAY 1907

No. in Survey held at  
Reg. Book.Glasgow

Date, first Survey

25 July 06

Last Survey

1-5-

1907

on the

S/S "Kazembe"

(Number of Visits)

Gross  
Tons  
Net

Master

Built at

Glasgow

By whom built

Allec Stephens, Son & Co. Ltd

When built

1907

Engines made at

Glasgow

By whom made

Allec Stephens, Son & Co. Ltd (421)

when made

1907

Boilers made at

ditto

By whom made

ditto

(421) when made

1907

Registered Horse Power

Owners

Port belonging to

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

Glydebridge, Caldubank

(Letter for record

8.)

Total Heating Surface of Boilers

1810

Is forced draft fitted

No

No. and Description of

Boilers one Single Ended

Working Pressure

180 lb

Tested by hydraulic pressure to

360 lb

Date of test

14.3.07

No. of Certificate

8798

Can each boiler be worked separately

yes

Area of fire grate in each boiler

52

No. and Description of

safety valves to each boiler 2 Double Springs

Area of each valve

4-91

Pressure to which they are adjusted

180 lb

Are they fitted with easing gear

yes

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

24"

Mean dia. of boilers

13-6"

Length

10-6"

Material of shell plates

S

Thickness

17/64

Range of tensile strength

28-32

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

Double

long. seams

TR. DBS

Diameter of rivet holes in long. seams

15/32

Pitch of rivets

8 3/16"

Lap of plates or width of butt straps

14 1/4"

Per centages of strength of longitudinal joint

86.2

rivets

86.0

Working pressure of shell by

rules

182

Size of manhole in shell

16 1/2"

Size of compensating ring

7-Neil

No. and Description of Furnaces in each

boiler

3 Neighlon

Material

S

Outside diameter

3-6"

Length of plain part

topbottom

Thickness of plates

1 1/2"

Description of longitudinal joint

welded

No. of strengthening rings

✓

Working pressure of furnace by the rules

180 lb

Combustion chamber

plates: Material

S

Thickness: Sides

5/8"

Back

3/8"

Top

19/32"

Bottom

3/4"

Pitch of stays to ditto: Sides

8 1/2 x 8 3/4"

Back

Top 8 1/2 x 7 3/4" If stays are fitted with nuts or riveted headsNot

Working pressure by rules

181 lb

Material of stays

S

Section

smallest part 17 7/8" Area supported by each stay8 1/2 x 8 3/4"

Working pressure by rules

215 lb

End plates in steam space: Material

S

Thickness

1 1/6"

Pitch of stays

19 x 14"

How are stays secured

D.N.

Working pressure by rules

182 lb

Material of stays

S

Section

Diameter at smallest part

5-5 1/6"

Area supported by each stay

19 x 14"

Working pressure by rules

208 lb

Material of Front plates at bottom

S

Thickness

7/8"

Material of

Lower back plate

S

Thickness

7/8"

Greatest pitch of stays

14"

Working pressure of plate by rules

181 lb

Diameter of tubes

3"

Pitch of tubes

4 1/8 x 4 1/8"

Material of tube plates

S

Thickness: Front

7/8"

Back

27/32"

Mean pitch of stays

11 5/16"

Pitch across wide

water spaces

14"

Working pressures by rules

180 lb

Girders to Chamber tops: Material

S

Depth and thickness of

girder at centre

7 x 13 1/4"

Length as per rule

27'

Distance apart

4 3/4"

Number and pitch of Stays in each

2-8 1/2"

Working pressure by rules

219 lb

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

## VERTICAL DONKEY BOILER—

No.

Description

Manufacturers of steel

Made at

By whom made

When made

Where fixed

Working pressure

tested 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

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

Plates

Working pressure of shell by rules

Thickness of shell crown plates

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

Radius of do.

Stayed by

Diameter of uptake

Thickness of uptake plates

Thickness of water tubes

The foregoing is a correct description,

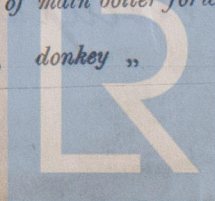
Allec Stephens, Son & Co. LtdAllec Scott, Son & Co. Ltd

Manufacturer.

Dates  
of Survey  
while  
buildingDuring progress of  
work in shops - -  
During erection on  
board vessel - - -  
Total No. of visitsSee accompanying report

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Lloyd's Register  
W616-0222



GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. This Boiler has been made under Special Survey in accordance with the approved plans & the Requirements of the Rules. The workmanship & material were found good. This Report accompanies that on the Engine & Boiler.

Certificate (if required) to be sent to

The amount of Entry Fee...	£	:	:	When applied for,
Special ...	£	:	:	19
Donkey Boiler Fee ...	£	:	:	When received,
Travelling Expenses (if any) 4	£	:	:	19

Glasgow - 7 MAY 1907

Committee's Minute

Assigned See accompanying reports.

Wm Gordon Macleui  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping

These  
Signal L  
Office  
123  
No., Date  
Whether Foreign  
British  
Number  
Number  
Rigged  
Stern  
Build  
Galleries  
Head  
Framework  
vessel  
Number  
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