

REPORT ON BOILERS.

Hls. No. 24238.
Sta. No. 22948Port of GlasgowReceived at London Office **THUR. 20 SEP 1906**No. in
Reg. Book.

Survey held at

Amman

Date, first Survey

8th May 1906

Last Survey

6th July 19

(Number of Visits)

10on the Donkey boiler for R. Thompson & sons No 243Tons { Gross 23 H 8. H 9
Net 1 H 9 6. 9 5

Master.

J. R. Small

Built at

Sunderland

By whom built

R. Thompson & sons

When built

1906

Engines made at

Sunderland

By whom made

E. Clark & Sons

when made

06

Boilers made at

06

By whom made

06

when made

06

Registered Horse Power

229

Owners

The Steamship Mary Ltd.

Port belonging to

Glasgow

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

(Letter for record) Total Heating Surface of Boilers Is forced draft fitted No. and Description of Boilers

Working Pressure Tested by hydraulic pressure to Date of test

No. of Certificate Can each boiler be worked separately Area of fire grate in each boiler 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 Mean dia. of boilers Length

Material of shell plates Thickness Range of tensile strength Are the shell plates welded or flanged

Descrip. of riveting: cir. seams long. seams Diameter of rivet holes in long. seams Pitch of rivets

Lap of plates or width of butt straps Per centages of strength of longitudinal joint Working pressure of shell by rules

Size of manhole in shell Size of compensating ring No. and Description of Furnaces in each boiler

Material Outside diameter Length of plain part Thickness of plates

Description of longitudinal joint No. of strengthening rings Working pressure of furnace by the rules Combustion chamber

plates: Material Thickness: Sides Back Top Bottom Pitch of stays to ditto: Sides Back

Top If stays are fitted with nuts or riveted heads Working pressure by rules Material of stays Diameter at smallest part

Area supported by each stay Working pressure by rules End plates in steam space: Material Thickness

Pitch of stays How are stays secured Working pressure by rules Material of stays Diameter at smallest part

Area supported by each stay Working pressure by rules Material of Front plates at bottom Thickness Material of Lower back plate

Thickness Greatest pitch of stays Working pressure of plate by rules Diameter of tubes

Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays Pitch across wide water spaces

Working pressures by rules Girders to Chamber tops: Material Depth and thickness of girder at centre

Length as per rule Distance apart Number and pitch of Stays in each

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

VERTICAL DONKEY BOILER—

No. 1124Description Cochran

Manufacturers of steel

Steel Coy of Scotland

Made at

Amman

By whom made

Cochran & Co. Amman

When made

1906

Where fixed

at household

Working pressure

100 lb.

tested by hydraulic pressure to

200 lb.

Date of test

6/4/06

No. of Certificate

8140

Fire grate area

23 sq

Description of safety valves

Safety Spring

No. of safety valves

Two

Area of each

4.9

Pressure to which they are adjusted

100 lb.

If fitted with easing gear

Yes

If steam from main boilers can enter the donkey boiler

No.

Dia. of donkey boiler

6.6"

Length

18.6"

Material of shell plates

Steel

Thickness

9/16" + 19/32"

Range of tensile strength

24/32

Descrip. of riveting long. seams

Double rivet

Dia. of rivet holes

2 1/2"

When rivets are drilled

Yes

Pitch of rivets

2 3/4"

Lap of plating

4 1/2"

Per centage of strength of joint

69%

Working pressure of shell by rules

102 lb.

Thickness of shell crown plates

9/16"

Radius of do.

3.3"

No. of Stays to do.

4

Dia. of stays

2.9"

Diameter of furnace Top

2.9"

Bottom

6.6"

Length of furnace

2.9"

Thickness of furnace plates

9/16"

Description of joint

Solid dished with

Working pressure of furnace by rules

102 lb.

Thickness of furnace crown plates

9/16"

Radius of do.

2.9"

Stayed by

Yes

Diameter of uptake

3.22"

Thickness of uptake plates

9/16"

Thickness of tube plates

1 1/2" + 2 1/2"

Cassid stay to top of plate

Yes

The foregoing is a correct description,

For

DOCK & CO., LONDON

Manufacturer.

W. H. H.

Dates

During progress of

1906. May 8. 14. 22. 31. June 5. 8. 15. 21. 28. July 6

of Survey

work in shops --

while

During erection on

building

board vessel --

Total No. of visits

10

Is the approved plan of main boiler forwarded herewith

Yes

" " " donkey " "

Yes

W438-00010

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

This Boiler has been made under Survey the material & workmanship are of good description & the Hydraulic test proved satisfactory

*Now fitted on board, secured in place, & tested under steam.
Eligible for record in Register Book.*
E.J.S.

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[The bottom section of the form contains a table for fees and a signature area. The text is as follows:]

	£	s	d	When Applied for.	When Reported.
The amount of Entry Fee...					
Special ...					
Donkey Boiler Fee ...	2	2			
Travelling Expenses (if any) £					

Signature: James Hollison
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.
Clyde District

Glasgow 23 JUL 1908 FRI, 21 SEP 1908

Assigned Traurmit to Sunderland.

Certificate (if required) to be sent to the Committee's Minute.