

## REPORT ON BOILERS.

No. 38865

Received at London Office

Date of writing Report

191

When handed in at Local Office

191

Port of *Glasgow*

Description of Safe

No. in

Survey held at

*Renfrew*

Date, First Survey

*30/5/18*

Last Survey

*19/12/1919*

Reg. Book.

on the

*S.S. Moyallan*

(Number of Visits)

Gross *432*

Tons

Net *170*

Length

Master

Built at

*Paisley*

By whom built

*John Fullerton & Co*

When built

*1919*

Engines made at

*Paisley*

By whom made

*Campbell & Calderwood (958)*

When made

*1919*

Boilers made at

*Renfrew*

By whom made

*Tom Simons & Co Ltd (627)*

When made

*1918*

Registered Horse Power

Owners

*John Kelly Ltd*

Port belonging to

*Belfast*

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

*J. Colvile & Son & Steel Co of Scotland*

Letter for record

(5) Total Heating Surface of Boilers

*14,860 sq ft*

Is forced draft fitted

No. and Description of

Boilers

*1 Single ended*

Working Pressure

*130 lbs*

Tested by hydraulic pressure to

*260*

Date of test

*19/12/18*

No. of Certificate

*14566*

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

*13'-0"*

Length

*10'-0"*

Material of shell plates

Thickness

*13/16"*

Range of tensile strength

*28,532*

Are the shell plates welded or flanged

*no*

Descrip. of riveting: cir. seams

*lap double*

long. seams

*butt triple*

Diameter of rivet holes in long. seams

*15/16"*

Pitch of rivets

*5 7/8"*

Gap of plates or width of butt straps

*15"*

Per centages of strength of longitudinal joint

rivets *85.9*

Working pressure of shell by

Rules

*130*

Size of manhole in shell

*16" x 12"*

Size of compensating ring

*26" x 30" x 13/16"*

No. and Description of Furnaces in each

Boiler

*3 plain*

Material

*Steel*

Outside diameter

*41"*

Length of plain part

*top 6'-0"*

Thickness of plates

*bottom 5'-5"*

Combustion chamber

Description of longitudinal joint

*weld*

No. of strengthening rings

*19*

Working pressure of furnace by the rules

*140*

Combustion chamber

Plates: Material

*Steel*

Thickness: Sides

*19/32*

Back

*19/16*

Top

*19/32*

Bottom

*19/32*

Pitch of stays to ditto: Sides

*9 x 9 3/4"*

Back

Top

*10 x 9*

If stays are fitted with nuts or riveted heads

*nuts*

Working pressure by rules

*131*

Material of stays

*Steel*

Diameter at

Smallest part

*4.5"*

Area supported by each stay

*90*

Working pressure by rules

*130*

End plates in steam space: Material

*Steel*

Thickness

Pitch of stays

*19/32 x 18*

How are stays secured

*22 x 22*

Working pressure by rules

*133*

Material of stays

*Steel*

Diameter at smallest part

*4.11*

Area supported by each stay

*3.5*

Working pressure by rules

*135*

Material of Front plates at bottom

*Steel*

Thickness

*3/4"*

Material of

Front back plate

*Steel*

Thickness

*3/4"*

Greatest pitch of stays

*15"*

Working pressure of plate by rules

*140*

Diameter of tubes

Pitch of tubes

*4 3/4" x 4 7/8"*

Material of tube plates

*Steel*

Thickness: Front

*3/4"*

Back

*11/16"*

Mean pitch of stays

*11"*

Pitch across wide

Working pressures by rules

*182*

Girders to Chamber tops: Material

*Steel*

Depth and thickness of

Working pressure by rules

*139*

Superheater or Steam chest: how connected to boiler

*none*

Can the superheater be shut off and the boiler worked

*no*

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

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

Survey request form

No. *2166*

attached

FOR

The foregoing is a correct description,

*J. M. Simons & Co. Ltd.*

Manufacturer.

During progress of

*1918 May 30*

work in shops

*July 2*

Sept 19

*Oct 30*

Dec 16 19

Is the approved plan of boiler forwarded herewith

During erection on

board vessel

Total No. of visits

*6*

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

*This boiler has been built under special survey. The materials & workmanship are of good description.*

Survey Fee

*Charged on Machinery Report*

191

Travelling Expenses (if any) £

When received,

191

*A. McKeand*

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

Committee's Minute

GLASGOW

24 JUN. 1919

Signed

*See attached machinery report.*Lloyd's Register  
Foundation