

## REPORT ON BOILERS

No. 39014

Received at London Office

WED. AUG. 13. 1919

Date of writing Report

191

When handed in at Local Office

9. 8. 1919 Port of

Glasgow.

No. in Survey held at

Date, First Survey

10. 7. 17

Last Survey

24. 7. 1919

Reg. Book.

(Number of Visits 46)

Gross  
Tons  
Neton the *C. Standard Boiler*

Master

Built at

By whom built

*Ramsey & Ferguson*

When built

Engines made at

By whom made

When made

Boilers made at

*Paisley*

By whom made

*A. F. Craig & Co Ltd (6/8/19/20)*

When made

1919

Registered Horse Power

Owners

Port belonging to

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

Letter for record

*S*

Total Heating Surface of Boilers

*6420 sq ft*

Is forced draft fitted

*Yes*

No. and Description of

Boilers *3 Single Ended Marine*

Working Pressure

*180 lbs*

Tested by hydraulic pressure to

*360 lbs*

Date of test

*27. 6. 19*

No. of Certificate

*14799*  
*14813*  
*14834*

Can each boiler be worked separately

Area of fire grate in each boiler

*51.7 sq ft*

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'-10 7/8"* Outside *11'-8 7/16"* Length

of shell plates

*S*

Thickness

*1 1/8"*

Range of tensile strength

*28/32*

Are the shell plates welded or flanged

*No.*

of riveting: cir. seams

*D.R. Lap*

long. seams

*T.R. D.B.S.*

Diameter of rivet holes in long. seams

*1 3/16"*

Pitch of rivets

*8 1/2"*

plates or width of butt straps

*1'-6"*

Per centages of strength of longitudinal joint

rivets *86.1*  
plate *86.0*

Working pressure of shell by

*184.1*

Size of manhole in shell

*End*  
*16" x 12"*

Size of compensating ring

*none*

No. and Description of Furnaces in each

*3 Beighton*

Material

*S*

Outside diameter

*3'-4"*

Length of plain part

top *—*  
bottom *—*

Thickness of plates

crown *1 1/2"*  
bottom *1 3/32"*

tion of longitudinal joint

*welded*

No. of strengthening rings

*none*

Working pressure of furnace by the rules

*190*

Combustion chamber

Material

*S*

Thickness: Sides

*1 1/16"*

Back

*3/4"*

Top

*1 1/16"*

Bottom

*1 1/16"*

Pitch of stays to ditto: Sides

*9 3/8" x 9"*

Back

*10 1/2" x 9"**9" x 9"*

If stays are fitted with nuts or riveted heads

Working pressure by rules

*194*

Material of stays

*S*

Diameter at

part

*2-36*

Area supported by each stay

*94.5 sq in*

Working pressure by rules

*225*

End plates in steam space: Material

*S*

Thickness

*1 1/32"*

stays

*1-11 3/4" x 1-7 1/4"*

How are stays secured

*S.N. & laced*

Working pressure by rules

*181.1*

Material of stays

*S*

Diameter at smallest part

*3 1/4"*

supported by each stay

*4420"*

Working pressure by rules

*182.4*

Material of Front plates at bottom

*S*

Thickness

*3/32"*

Material of

*Back*

back plate

*S*

Thickness

*2 1/2"*

Greatest pitch of stays

*1-1 1/2" x 9"*

Working pressure of plate by rules

*184*

Diameter of tubes

*2 3/4"*

tubes

*4" x 4"*

Material of tube plates

*S*

Thickness: Front

*3/32"*

Back

*3/4"*

Mean pitch of stays

*12" x 8"*

Pitch across wide

spaces

*1'-1 1/2"*

Working pressures by rules

*184.5*

Girders to Chamber tops: Material

*S*

Depth and thickness of

at centre

*10 1/2" x 3 1/4"*

Length as per rule

*2-11 1/2"*

Distance apart

*9 3/8"*

Number and pitch of Stays in each

*3 @ 9"*

g pressure by rules

*181*

Superheater or Steam chest: how connected to boiler

*—*

Can the superheater be shut off and the boiler worked

*—*

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

*—*

ned with rings

*—*

Distance between rings

*—*

Working pressure by rules

*—*

End plates: Thickness

*—*

How stayed

*—*

g pressure of end plates

*—*

Area of safety valves to superheater

*—*

Are they fitted with easing gear

*—*

vey request form

*—*

The foregoing is a correct description,

2017. attached

*Wm F. Murray*

Manufacturer.

During progress of

*1917. July 10. Nov. 26. Dec. 13.*

work in shops - - -

*1918. Feb. 8. 13. 21. 26. Mar. 11. 21. Apr. 16. 29. May 6. 10. 21. Is the approved plan of boiler forwarded herewith*

During erection on

*1919. Jan. 7. 13. 24. July 10. Sep. 14. 20. 23. Oct. 19. 23. 31. Nov. 25. 29. Dec. 12.*

board vessel - - -

*1919. Jan. 10. 15. 20. 27. July 10. 16. 18. 24. 28. Feb. 13. 18. Apr. 15. 29. May 16. 30. June 23. 27. July 9. 24.*

Total No. of visits

*46.*

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

*These boilers have been built in Special Survey in accordance with the approved plan & the rules of the Society. The materials & workmanship are good. The boilers have been patterned to suit for fitting on board at that Port.*

Survey Fee

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*1/6 2/3*

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Travelling Expenses (if any) £

When applied for,

191

When received,

191

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

Committee's Minute

GLASGOW

12 AUG 1919

FRI. 12 MAR. 1920

Signed

TRANSMIT TO LONDON

FRI. MAR 26 1920

Lloyd's Register  
Foundation

009827-009832-0119