

# REPORT ON BOILERS.

No. 10380.

Received at London Office

23.10.19

of writing Report

191

When handed in at Local Office

21/5/19 Port of Middlesbrough

No. in Survey held at

Stockton-on-Tees

Date, First Survey 28<sup>th</sup> Nov 18. Last Survey 17<sup>th</sup> Mar 1919.

eg. Book.

(Number of Visits 17)

Gross 5260.31

on the Donkey Boiler for the S.S. PEEBLES ex War Petunia (S.S.N. 675)

Net 3217.64

ster J. G. Potts

Built at Stockton

By whom built Richardson Duck & Co

When built 1919

ines made at

Stockton

By whom made Messrs Blair & Co Lim<sup>d</sup> (N<sup>o</sup> 1899) When made 1919

ers made at

Stockton

By whom made Messrs Blair & Co Lim<sup>d</sup> (N<sup>o</sup> E 1055) When made 1919

gistered Horse Power

Owners Sutherland Steamship Co Port belonging to Newcastle

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

J. Spencer & Son Lim<sup>d</sup>

etter for record

(S)

Total Heating Surface of Boilers 1295 f

Is forced draft fitted no

No. and Description of

illers

One single ended

Working Pressure 100

Tested by hydraulic pressure to 200

Date of test 10.3.19

of Certificate

5975

Can each boiler be worked separately

✓

Area of fire grate in each boiler 33.7 f

No. and Description of

fety valves to each boiler

2 direct spring

Area of each valve

7.07 a

Pressure to which they are adjusted 105

re they fitted with easing gear

yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no

allest distance between boilers or uptakes and bunkers or woodwork on upper deck

External

dia. of boilers 12'-0"

Length 10'-0"

aterial of shell plates

Steel

Thickness 2/32

Range of tensile strength 28-32

Are the shell plates welded or flanged no

escrip. of riveting: cir. seams 2 R. lap long. seams 2 B-2 Riv

3 Rivts per pitch

Diameter of rivet holes in long. seams 15/16

Pitch of rivets 5 9/16

an of plates or width of butt straps 10 1/4 x 5/8

Per centages of strength of longitudinal joint

plate 84.5

Working pressure of shell by

des 110

Size of manhole in shell 20 x 16

Size of compensating ring 4 1/2 x 1 1/2

No. and Description of

Furnaces in each

oller 2 plain

Material steel

Outside diameter 41 9/16

Length of plain part

top 67 13/16

Thickness of plates

crown 17/32

escription of longitudinal joint

Weld

No. of strengthening rings none

Working pressure of furnace by the rules 108

Combustion chamber

utes: Material steel

Thickness: Sides 9/16

Back 9/16

Top 9/16

Bottom 9/16

Pitch of stays to ditto: Sides 9 3/4 x 9 3/4

p 9 3/4 x 9 3/4 If stays are fitted with nuts or riveted heads nuts

Working pressure by rules 114

Material of stays steel

Area at

allest part 1.41

Area supported by each stay 95.06

Working pressure by rules 118

End plates in steam space: Material steel

Thickness 27/32

tech of stays 19 x 16

How are stays secured nuts & 7 x 3/4 washers

Working pressure by rules 109

Material of stays steel

Area at smallest part 2.26

rea supported by each stay 323

Working pressure by rules 105

Material of Front plates at bottom steel

Thickness 13/16

uer back plate steel

Thickness 3/4

Greatest pitch of stays 14 x 9 3/4

Working pressure of plate by rules 134

Diameter of tubes 3 1/4

tech of tubes 4 1/2 x 4 1/2

Material of tube plates steel

Thickness: Front 13/16

Back 3/4

Mean pitch of stays 10 5/8

Pitch across wide

ter spaces 14 1/2

Working pressures by rules 116

Girders to Chamber tops: Material steel

Depth and thickness of

der at centre 7 5/8 x 1 1/8

Length as per rule 28 1/2

Distance apart 9 3/4

Number and pitch of Stays in each 20 9 1/2

orking pressure by rules 116

Steam dome: Description of joint to shell none

% of strength of joint

iameter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

tech of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

PERHEATER. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

te of Test

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

iameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

The foregoing is a correct description,

FOR BLAIR & CO., LIMITED

210 Waltham

Manufacturer.

SURVEY REQUEST NO. 1486. ATTACHED.

Dates During progress of work in shops - - 1918. Nov 28. Dec 2. 6. 9. 1919. Jan 17. 20. 22  
While During erection on board vessel - - 24. 27. 29. Feb 3. 6. 12. 17. Mar 5. 10. 17.

Is the approved plan of boiler forwarded herewith

yes

Total No. of visits

17

## GENERAL REMARKS

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

This boiler has been built under

Special Survey in accordance with the Rules and the approved plan. The materials and workmanship are sound and good and on completion the boiler was tested by hydraulic pressure with satisfactory results. The boiler has been satisfactorily secured on board, examined under steam and safety valves

adjusted

See Machinery rpt.

Survey Fee

£

When applied for,

191

Travelling Expenses (if any) £

When received,

191

Committee's Minute

TUE 27 MAY 1919

signed

See accompanying f.e. rpt

Wm Morrison

Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation

002409-00546-0076