

REPORT ON BOILERS.

No. 10491

Received at London Office

MON. 6. 8. 1912

of writing Report

19

When handed in at Local Office

2/10/19

Port of

MIDDLESBRO

Survey held at

Stockton on Tees

Date, First Survey

2nd May 1919 Last Survey 29th July 1919

Book.

(Number of Visits)

Gross

Net

Description of

on the Donkey Boiler for the S. S. Clearton

ment

ster

Built at Stockton

By whom built

Richardson Tuck & Co

When built 1919

length

Rines made at

Stockton

By whom made

Messrs Blair & Co Ltd

When made 1919

Rines made at

Stockton

By whom made

Messrs Blair & Co Ltd (E. 1056)

When made 1919

Rivets

nt

Plates

ays

Registered Horse Power

Owners

Port belonging to

J. Spencer & Sons
D. Colville & Sons

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

Letter for record

(S)

Total Heating Surface of Boilers

1295 sq

Is forced draft fitted

no

No. and Description of

Boilers

One single ended

Working Pressure

100

Tested by hydraulic pressure to

200

Date of test 29.7.19

of Certificate 6019

Can each boiler be worked separately

✓

Area of fire grate in each boiler

33.7 sq

No. and Description of

in bearing

Safety valves to each boiler

2 direct spring

Area of each valve

7.07 sq

Pressure to which they are adjusted 105 lb

feed

they fitted with easing gear

yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

no

bottom

Smallest distance between boilers or uptakes and bunkers or woodwork

on upper deck

External

Mean dia. of boilers

12'-0"

Length 10'-0"

location

Material of shell plates

steel

Thickness

2 1/2"

Range of tensile strength

28-32

Are the shell plates welded or flanged

no

Description of riveting: cir. seams

2 R. lap

long. seams

2 R. 2 Riv

Diameter of rivet holes in long. seams

1 1/2"

Pitch of rivets

5 3/8"

tail

of plates or width of butt straps

10 1/4" x 5 1/8"

Per centages of strength of longitudinal joint

rivets

84.5

Working pressure of shell by

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

2 plain

Material

steel

Outside diameter

41 1/2"

Description of longitudinal joint

weld

No. of strengthening rings

none

Working pressure of furnace by the rules

108

Combustion chamber

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"

Back

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

smallest part

1.41

Area supported by each stay

95.06

Working pressure by rules

118

End plates in steam space: Material

steel

Thickness

2 1/2"

Area at smallest part

3.26

How are stays secured

nuts

Working pressure by rules

109

Material of stays

steel

Area at smallest part

3.26

Area supported by each stay

323

Working pressure by rules

105

Material of Front plates at bottom

steel

Thickness

1 1/2"

Material of

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 1/2"

Material of tube plates

steel

Thickness: Front

1 1/2"

Back

3/4"

Mean pitch of stays

10 3/8"

Pitch across wide

spaces

Working pressures by rules

116

Girders to Chamber tops: Material

steel

Depth and thickness of

Girders

Number and pitch of Stays in each

2 @ 9 1/2"

Working pressure by rules

116

Steam dome: description of joint to shell

none

% of strength of joint

meter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Working pressure of shell by rules

Crown plates

Thickness

How stayed

Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

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

Pressure to which each is adjusted

Is Easing Gear fitted

The foregoing is a correct description,

FOR BLAIR & CO., LIMITED,

Manufacturers.

During progress of

work in shops - -

During erection on

board vessel - - -

Is the approved plan of boiler forwarded herewith

yes

Total No. of visits

4

Return for duplicate Boiler

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

This boiler has been built under

Special Survey: is of good material and workmanship and on completion was tested by

hydraulic pressure with satisfactory results. The boiler has been satisfactorily secured on

board, examined under steam and safety valves adjusted

See to be decided in London.

Survey Fee

£

When applied for,

19

Travelling Expenses (if any)

£

When received,

19

Foreign Shipping

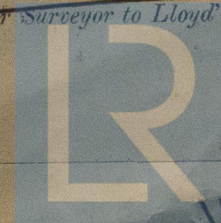
Committee's Minute

Signed

FRI. 10. OCT. 1919

Wm Morrison

Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register

W 374-0032