

REPORT ON BOILERS.

No. 8413.

THU. MAY. 7-1914

THU. JUL. 16. 1914

of writing Report 3.5.14

When handed in at Local Office

6.5.

Port of

Received at London Office

MIDDLESEX

No. in Survey held at

Stockton-on-Tees

Date, First Survey

20th February

Last Survey

1st May

1914

g. Book.

on the

S.S. V.

"ABUS"

(Number of Visits 15)
(S.S. No 290)

Tons } Gross 272
Net 101

ster Bore

Built at

South Shields

By whom built

James J. P. Rimmoldson & Sons

When built

1914

ines made at

By whom made

When made

lers made at

Stockton

By whom made

Thos Riley Bros Ltd. (No 4683)

When made

istered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

John Hume & Sons

atter for record

(5)

Total Heating Surface of Boilers

1080 sq

Is forced draft fitted

No. and Description of

ilers

One single ended

Working Pressure

130

Tested by hydraulic pressure to

260

Date of test

1.5.14

of Certificate

5285

Can each boiler be worked separately

Area of fire grate in each boiler

34 sq

No. and Description of

ety valves to each boiler

Area of each valve

Pressure to which they are adjusted

they fitted with easing gear

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

allest distance between boilers or uptakes and bunkers or woodwork

Inside

Mean dia. of boilers

11'-6"

Length 9'-6"

ul of shell plates

steel

Thickness

1/2"

Range of tensile strength

29 3/4-33

Are the shell plates welded or flanged

no

. of riveting: cir. seams

2 R. lap

long. seams

2 B-3 Riv

Diameter of rivet holes in long. seams

15"

Pitch of rivets

6 3/4"

plates or width of butt straps

12 1/2 x 1/2"

Per centages of strength of longitudinal joint

88.2

Working pressure of shell by

plate

86.07

Size of manhole in shell

19 x 15"

Size of compensating ring

7 x 3/4"

No. and Description of Furnaces in each

2

plain

Material

steel

Outside diameter

44"

Length of plain part

70 3/4"

Thickness of plates

1/2"

Combustion chamber

Material

steel

Thickness: Sides

3/8"

Back

3/8"

Top

3/8"

Bottom

1 1/2"

Pitch of stays to ditto: Sides 9 x 8" Back 9 x 8"

2 x 8" If stays are fitted with nuts or riveted heads

multi

Working pressure by rules

143

Material of stays

steel

Diameter at

top

70 3/4"

bottom

st part

1.19

Area supported by each stay

72

Working pressure by rules

132

End plates in steam space: Material

steel

Thickness

27/32"

of stays

16 x 15"

How are stays secured

multi

Working pressure by rules

145

Material of stays

steel

Diameter at smallest part

3.26

supported by each stay

240

Working pressure by rules

141

Material of Front plates at bottom

steel

Thickness

27/32"

Material of

back plate

steel

Thickness

27/32"

Greatest pitch of stays

of tubes

4 3/8 x 4 1/2"

Material of tube plates

steel

Thickness: Front

27/32"

Back

1/2"

Mean pitch of stays

10 1/4"

Pitch across wide

spaces

14 1/2"

Working pressures by rules

135

Girders to Chamber tops: Material

steel

Depth and thickness of

at centre

7 x 14"

Length as per rule

27"

Distance apart

8"

ing pressure by rules

159

Superheater or Steam chest: how connected to boiler

none

Can the superheater be shut off and the boiler worked

rately

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

Diffened 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.

Description

Manufacturers of steel

e at

By whom made

When made

Where fixed

Working pressure

d by hydraulic pressure to

Date of test

No. of Certificate

Fire grate area

Description of safety valves

of safety valves

Area of each

Pressure to which they are adjusted

If fitted with easing gear

If steam from main boilers can

the donkey boiler

Dia. of donkey boiler

Length

Material of shell plates

Thickness

Range of tensile

ngth

Descrip. of riveting long. seams

Dia. of rivet holes

Whether punched or drilled

Pitch of rivets

of plating

Per centage of strength of joint

Rivets

Plates

Working pressure of shell by rules

Thickness of shell crown plates

us of do.

No. of Stays to do.

Dia. of stays

Diameter of furnace Top

Bottom

Length of furnace

knness of furnace plates

Description of joint

Working pressure of furnace by rules

Thickness of furnace crown

Radius of do.

Stayed by

Diameter of uptake

Thickness of uptake plates

Thickness of water tubes

SURVEY

REQUEST

NO. 959

ATTACHED.

FOR

THE FOREGOING IS A CORRECT DESCRIPTION,

Manufacturer.

During progress of

work in shops

Feb 20 22 Mar 3 12 14 20 23 27 30

Apr 15 17 23 25 27

May 1

See Newcastle Report No. 66410

15.

Is the approved plan of main boiler forwarded herewith

yes

"

"

"

"

"

"

"

"

"

"

"

"

During erection on

board vessel

15.

Total No. of visits

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 amount of Entry Fee .. £	✓	:	When applied for.
Special £	✓	:	MONTHLY 4/6
Donkey Boiler Fee £	3 - 12 - 0	:	When received.
Travelling Expenses (if any) £	✓	: 19.....

Wm Morrison
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute FRI JUL 17 1914

Assigned

