

REPORT ON BOILERS.

No. 10708

THURSDAY 19. 1918

Received at London Office

When handed in at Local Office

17 Sept 1918 Port of

ing Report

Survey held at

Lincoln

Date, First Survey 10: 23 1917

Last Survey

Sept 6 1918

1918

on the

Smith Type boiler No 42 (Builder's No 42, 923)

(Number of Visits 26)

Gross
Tons
Net

Built at

By whom built

Rennie Jones (1917)

When built

made at

By whom made

When made

made at

Lincoln

By whom made

Ruston Proctor & Co. Ltd

When made

1918

Horse Power

Owners

Port belonging to

TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

Stewart & Lloyds

Total Heating Surface of Boilers

1347

Is forced draft fitted

No. and Description of

one SE return tube

Working Pressure

180

Tested by hydraulic pressure to

360 lbs

Date of test

22-8-18

Certificate 161 Can each boiler be worked separately

Area of fire grate in each boiler

39.5

No. and Description of

ves to each boiler

2 direct opening

Area of each valve

5.93

Pressure to which they are adjusted

fitted with easing gear

yes

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

Distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

12'-6"

Length

10'-0"

of shell plates

S

Thickness

1/32

Range of tensile strength

28/32

Are the shell plates welded or flanged

no

of riveting: cir. seams

double

long. seams

treble butt

Diameter of rivet holes in long. seams

1/16

Pitch of rivets

7 3/16

width of butt straps

16"

Per centages of strength of longitudinal joint

rivets

88.1

Working pressure of shell by

plate

85.5

Size of manhole in shell

12 1/4 x 16 1/4

Size of compensating ring

16 1/4 x 12 1/4

1/32

No. and Description of Furnaces in each

3 plain

Material

S

Outside diameter

36 1/2

Length of plain part

top

76

Thickness of plates

crown

3 3/4

of longitudinal joint

welded

No. of strengthening rings

none

Working pressure of furnace by the rules

190

Combustion chamber

Material

S

Thickness: Sides

5/8

Back

5/8

Top

5/8

Bottom

5/8

Pitch of stays to ditto: Sides

9 x 8

Back

9 x 8

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

187

Material of stays

I

Diameter at

Area supported by each stay

72

Working pressure by rules

200

End plates in steam space: Material

S

Thickness

1/8

stays 1/8 x 1/8

How are stays secured

d. nuts & washers

Working pressure by rules

185

Material of stays

S

Diameter at smallest part

area

6.22

ported by each stay

324

Working pressure by rules

200

Material of Front plates at bottom

S

Thickness

1/2

Material of

ck plate

S

Thickness

15/16

mean

pitch of stays

12 1/2

Working pressure of plate by rules

241

Diameter of tubes

3 1/2

tubes

4 3/4

Material of tube plates

S

Thickness: Front

1

Back

27/32

Mean pitch of stays

11 7/8

Pitch across wide

ices

14 1/2

Working pressures by rules

207

Girders to Chamber tops: Material

S

centre

2-7 x 7/8

Length as per rule

28 1/2

Distance apart

8 3/4

Number and pitch of Stays in each

2-8 1/2

pressure by rules

183

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

d with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

LOCAL DONKEY BOILER

No.

Description

Manufacturers of steel

By whom made

When made

Where fixed

Working pressure

Hydraulic pressure to

Date of test

No. of Certificate

Fire grate area

Description of safety valves

ty valves

Area of each

Pressure to which they are adjusted

If fitted with easing gear

If steam from main boilers can

donkey boiler

Dia. of donkey boiler

Length

Material of shell plates

Thickness

Range of tensile

Descrip. of riveting long. seams

Dia. of rivet holes

Whether punched or drilled

Pitch of rivets

ting

Per centage of strength of joint

Rivets

Plates

Working pressure of shell by rules

Thickness of shell crown plates

No.

No. of Stays to do.

Dia. of stays

Diameter of furnace Top

Bottom

Length of furnace

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

water tubes

The foregoing is a correct description,

Ruston, Proctor & Co. Ltd

Manufacturer.

per C. D. Barker

During erection on

board vessel

Total No. of visits

26.

Is the approved plan of main boiler forwarded herewith

Yes

" " " donkey " " " "

005740-005755-0349

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey, and the workmanship is good. Uptake examined during construction.

Certificate (if required) to be sent to
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee	£	:	:	When applied for,
Special	£	6	- 2	18 Sep 19
Donkey Boiler Fee	£	:	:	When received,
Travelling Expenses (if any)	£	5	: 2	3.12.19
Committee's Minute				
Assigned				
TUE 29 JAN 1919				

C Marshall & J D Ritchie
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.