

Nessey Swan Hunter & W Richardson S-S-740 Donkey Boiler

t. 5.

# REPORT ON BOILERS.

No. 49459

Port of Newcastle on Tyne

Received at London Office

FRI. 6 OCT 1905

Survey held at

Newcastle

Date, first Survey

Last Survey

Oct 2 1905

ook.

(Number of Visits)

on the Steel S. S. "LESTRIS"

Gross 1384  
Tons Net 675

By whom built

Newcastle

By whom built

Swan Hunter & W Richardson

When built 1905

made at

Newcastle

By whom made

Swan Hunter & W Richardson Ltd

when made 1905

made at

S-

By whom made

S-

when made 1905

red Horse Power

Owners

Cable S. S. Co. Ltd

Port belonging to Cable

TITUBULAR BOILERS—MAIN, ~~AUXILIARY~~ OR DONKEY.—Manufacturers of Steel

J. Spencer & Son

for record

17

Total Heating Surface of Boiler

Is forced draft fitted

No

No. and Description of

The Cyl S End

Working Pressure

80

Tested by hydraulic pressure to

160

Date of test 24/8/05

Certificate 7063

Can each boiler be worked separately

✓

Area of fire grate in each boiler

28 ft

No. and Description of

valves to each boiler

Two Spring

Area of each valve

5-9"

Pressure to which they are adjusted 80

ey fitted with easing gear

Yes

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

No

st distance between boilers or uptakes and bunkers or woodwork

boiler on main dk.

Mean dia. of boilers

9-10 7/8

Length 7-5"

al of shell plates

S

Thickness

9/16

Range of tensile strength 28 3/4/32

Are the shell plates welded or flanged

No

p. of riveting: cir. seams

S riv

long. seams

butte riv

Diameter of rivet holes in long. seams

7/8

Pitch of rivets 3 9/16

f plates or width of butt straps

6 1/8

Per centages of strength of longitudinal joint

rivets 76  
plate 75-4

Working pressure of shell by

92

Size of manhole in shell

16 x 12

Size of compensating ring

7 1/2 x 9 1/16

No. and Description of Furnaces in each

2 Plain

Material S

Outside diameter

37 1/2

Length of plain part

top 4-11  
bottom 5-6

Thickness of plates

crown 1/2  
bottom 1/2

ption of longitudinal joint

d strap

No. of strengthening rings

✓

Working pressure of furnace by the rules

108

Combustion chamber

: Material

S

Thickness: Sides

1/2

Back

1/2

Top

1/2

Bottom

5/8

Pitch of stays to ditto: Sides 10 x 9 1/2

Back 10 1/2 x 9 1/8

3/4 x 9 1/2 If stays are fitted with nuts or riveted heads

nut

Working pressure by rules

80

Material of stays

Iron

Diameter at

st part 1-45 Area supported by each stay

95

Working pressure by rules

91

End plates in steam space: Material

S

Thickness

3/4

of stays 17 1/2 x 20 1/2

How are stays secured

nut

Working pressure by rules

87

Material of stays

S

Diameter at smallest part 3-26

supported by each stay

359

Working pressure by rules

90

Material of Front plates at bottom

S

Thickness

3/4

Material of

back plate

S

Thickness

3/4

Greatest pitch of stays

as per plan

Working pressure of plate by rules

af 80

Diameter of tubes

of tubes

4 1/4 x 4

Material of tube plates

S

Thickness: Front

3/4

Back

5/8

Mean pitch of stays

12 3/8

Pitch across wide

spaces

14

Working pressures by rules

88

Girders to Chamber tops: Material

S

Depth and thickness of

at centre

5 3/4 x 10

Length as per rule

22 1/8

Distance apart

8 3/4

Number and pitch of Stays in each

ing pressure by rules

89

Superheater on

Steam chest; how connected to boiler

Check

Can the superheater be shut off and the boiler worked

tely

✓

Diameter

42

Length

24

Thickness of shell plates

1/2

Material

S

Description of longitudinal joint

d c

Diam. of rivet

✓

Pitch of rivets

2 7/8

Working pressure of shell by rules

192

Diameter of flue

✓

Material of flue plates

✓

Thickness

✓

✓

finned with rings

✓

Distance between rings

✓

Working pressure by rules

✓

End plates: Thickness

✓

How stayed

✓

ing pressure of end plates

✓

Area of safety valves to superheater

✓

Are they fitted with easing gear

✓

RTICAL DONKEY BOILER—

No.

Description

Manufacturers of steel

at

By whom made

When made

Where fixed

ing pressure

tested by hydraulic pressure to

No. of Certificate

Fire grate area

Description of safety valves

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

th

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

ts of do.

No. of Stays to do.

Dia. of stays

Diameter of furnace Top

Bottom

Length of furnace

ness of furnace plates

Description of joint

Working pressure of furnace by rules

Thickness of furnace crown

Stayed by

Diameter of uptake

Thickness of uptake plates

Thickness of water tubes

The foregoing is a correct description,

AN, HUNTER, & WIGHAM RICHARDSON, LTD.

Manufacturer.

es

During progress of

work in shops - -

roey

During erection on

board vessel - - -

ing

Total No. of visits

Please see Machinery report.

Is the proposed plan of main boiler for recorded herewith

"

"

"

donkey

"

"

Yes

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Lloyd's Register

Foundation



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

*This boiler has been built under special survey. The material & workmanship is good.*

Certificate (if required) to be sent to

The amount of Entry Fee...	£	:	:	When applied for,
Special ... ..	£	:	:	4 Oct 1905
Donkey Boiler Fee ...	£	2	2	When received,
Travelling Expenses (if any) £	:	:	:	7/10/05

*John H Heck.*  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

FRI. 6 OCT 1905

Committee's Minute

Assigned

*See Minute  
on Feb. Report.*



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