

## REPORT ON BOILERS.

Std. No. 34519

Hwe No. 101251

Received at London Office

24 MAY 1943

NEWCASTLE-ON-TYNE

of writing Report

20 MAY 1943

When handed in at Local Office

20 MAY 1943

Port of

in Survey held at

Wallsend.

Date, First Survey 8-12-1941

Last Survey 31-3-

1943

"HESPERIDES"

(Number of Visits 16)

Gross 5125

Tons Net 2850

on the

at

Sunderland

By whom built

Shupbuilding Corp.<sup>n</sup> (Leam Branch)

Yard No. 9

When built

1946

ames made at

Sunderland

By whom made

G. Black (1938) L.<sup>d</sup>

Engine No. 1343

When made

1946

rs made at

Wallsend.

By whom made

Wallsend Slipway & Eng Co. L.<sup>d</sup>

Boiler No. 4018

When made

1943

and

nal Horse Power

Owners

British & South American S.N. Co. L.<sup>d</sup>

Port belonging to

London

## TITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Colvilles L.<sup>d</sup>.

(Letter for Record

S

Heating Surface of Boilers

2416 sq. ft.

Is forced draught fitted

yes

Coal or Oil fired

coal

and Description of Boilers

18B.

Working Pressure

220

d by hydraulic pressure to

380

Date of test

30.3.43

No. of Certificate

1040

Can each boiler be worked separately

yes

of Firegrate in each Boiler

55 sq. ft.

No. and Description of safety valves to each boiler

Double improved high lift

of each set of valves per boiler

{ per Rule 6.42.

{ as fitted 7.94

Pressure to which they are adjusted

220

Are they fitted with easing gear

ylo.

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

least distance between boilers or uptakes and bunkers or woodwork

Is oil fuel carried in the double bottom under boilers

no

least distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

ylo.

st internal dia. of boilers

15'-0 1/2"

Length

11'-6"

Shell plates: Material

S

Tensile strength

29.33.

ness

1 1/32"

Are the shell plates welded or flanged

no.

Description of riveting: circ. seams { end

4.07"

seams

TR. DBS.

Diameter of rivet holes in { circ. seams

1 1/2"

Pitch of rivets {

10 3/8"

centage of strength of circ. end seams { plate

63.1

{ rivets

46.7

Percentage of strength of circ. intermediate seam { plate

85.5

{ rivets

86

centage of strength of longitudinal joint { plate

{ rivets

86

{ combined

87

ness of butt straps { outer

1 1/8"

{ inner

1 1/4"

No. and Description of Furnaces in each Boiler

3 cf.

rial

S

Tensile strength

26-30

Smallest outside diameter

3'-9 1/4"

h of plain part { top

{ bottom

Thickness of plates { crown

1/16"

{ bottom

Description of longitudinal joint

weld

nsions of stiffening rings on furnace or c.c. bottom

plates in steam space: Material

S

Tensile strength

26-30

Thickness

1 1/32"

Pitch of stays

20" x 21"

are stays secured

Double nuts.

plates: Material { front

{ back

S

Tensile strength {

26-30

Thickness {

1 7/16"

2 3/32"

pitch of stay tubes in nests

9.7"

Pitch across wide water spaces

14" x 8 1/4"

ers to combustion chamber tops: Material

S

Tensile strength

28-32

Depth and thickness of girder

entre

10 1/2" x 1 1/16" Dbl

Length as per Rule

33 7/32"

Distance apart

9 1/4"

No. and pitch of stays

ch

32 8"

Combustion chamber plates: Material

S

ile strength

26-30

Thickness: Sides

1/16"

Back

1/16"

Top

1/16"

Bottom

1 3/16"

of stays to ditto: Sides

9 1/4" x 8"

Back

9 1/4" x 8"

Top

9 1/4" x 8"

Are stays fitted with nuts or riveted over

nuts

t plate at bottom: Material

S.

Tensile strength

26-30

tness

1 5/16"

Lower back plate: Material

S

Tensile strength

26-30

Thickness

2 7/32"

of stays at wide water space

14" x 8"

Are stays fitted with nuts or riveted over

nuts

stays: Material

S

Tensile strength

28-32

of Ship

{ At body of stay,

{ or

{ Over threads

3 3/4"

No. of threads per inch

6

w stays: Material

S

Tensile strength

26-30

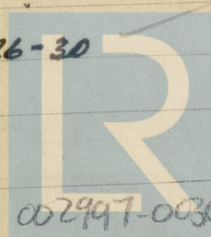
{ At turned off part,

{ or

{ Over threads

1 3/4"

No. of threads per inch



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Are the stays drilled at the outer ends no

No. of threads per inch 9

Tubes: Material Sp. Steel

External diameter

Plain 3"  
Stay 3"

Thickness 8 W.G.  
3/16" x 7/16"

No. of threads per inch 9

Manhole compensation: Size of opening

Pitch of tubes 4 1/4" x 4 1/8"

shell plate none

Section of compensating ring

No. of rivets and diameter of rivet holes

Steam Dome: Material

Outer row rivet pitch at ends

Depth of flange if manhole flanged

Description of longitudinal joint

Tensile strength

Thickness of shell

Percentage of strength of joint

Diameter of rivet holes

Pitch of rivets

Thickness of crown

No. and diameter

Internal diameter

Inner radius of crown

Diameter of rivet holes and

stays

How connected to shell

Size of doubling plate under dome

of rivets in outer row in dome connection to shell

Type of Superheater

Manufacturers of

Tubes  
Steel forgings  
Steel castings

Internal diameter and thickness of tubes

Number of elements

Material of tubes

Thickness

Can the superheater be shut off

Material of headers

Tensile strength

the boiler be worked separately

Is a safety valve fitted to every part of the superheater which can be shut off from the boiler

Area of each safety valve

Are the safety valves fitted with easing gear

Pressure to which the safety valves are adjusted

Hydraulic test pressure

tubes forgings and castings

and after assembly in place

valves fitted to free the superheater from water where necessary

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with yes

The foregoing is a correct description,  
FOR THE WALLSEND SLIPWAY & ENGINEERING CO. LIMITED  
J. W. Pherson.

Dates of Survey while work in shops - - -  
During erection on - - -  
1941 1942  
DEC. 8. JAN. 14. 16. FEB. 19. 23. 24. 26. JULY 14.  
SEPT. 25. OCT. 14. 28. NOV. 23. DEC. 29. 1943 FEB. 18.  
MAY 20. 21.

Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)

Total No. of visits

Is this Boiler a duplicate of a previous case yes. If so, state Vessel's name and Report No. Standard B.

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

This boiler has been constructed under Special Survey in accordance with the approved Plans the Requirements of the Rules & the Specification the materials & workmanship are good & the boiler proved sound & tight under hydraulic test. The boiler is now stored until assigned to a vessel.

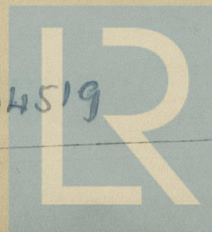
Survey Fee 1/3 of gross boiler fee £ 15 : 5 : 6  
Travelling Expenses (if any) £ : : :  
+25%

When applied for 20 MAY 1943  
When received, 19

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

Assigned For minute see Sec. 88. Reg. Rph. 34519



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