

REPORT ON BOILERS.

Sl. No. 34519

Hmc No. 101252

Received at London Office 23 AUG 1946

Date of writing Report 20 MAY 1943

When handed in at Local Office 20 MAY 1943

Port of

NEWCASTLE-ON-TYNE

Drawing No. 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

Built at Sunderland

By whom built

Shipbuilding Corp (Wear Branch)

Yard No. 9

When built 1946

Engines made at

By whom made

G. Black (1938) Ltd

Engine No. 1373

When made 1946

Boilers made at

Wallsend.

By whom made

Wallsend Shipyard & Eng Ltd

Boiler No. 4016

When made 1943

and nominal Horse Power

Owners

British & Dutch American P.N. Co Ltd

Port belonging to

London

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Colvilles Ltd

(Letter for Record S)

Total Heating Surface of Boilers

2416 sq ft

Is forced draught fitted

yes

Coal or Oil fired

coal

No. and Description of Boilers

1 SB.

Working Pressure

220

Tested by hydraulic pressure to

380

Date of test 30.3.43

No. of Certificate 1040

Can each boiler be worked separately

Area of Firegrate in each Boiler

55 sq ft

No. and Description of safety valves to each boiler

Double improved high lift

Area of each set of valves per boiler

per Rule 6.42.

as fitted 7.24

Pressure to which they are adjusted

220

Are they fitted with easing gear

yes

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

Smallest distance between boilers or uptakes and bunkers or woodwork

Is oil fuel carried in the double bottom under boilers

Smallest distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

Largest internal dia. of boilers

15'-0 1/2"

Length

11'-6"

Shell plates: Material

S

Tensile strength

29-33

Thickness

1 7/32"

Are the shell plates welded or flanged

no

Description of riveting: circ. seams

end DR

Long. seams

TR. DBS.

Diameter of rivet holes in

circ. seams 1 1/2"

Pitch of rivets

4.07"

10 3/8"

Percentage of strength of circ. end seams

plate 63.1

rivets 46.7

Percentage of strength of circ. intermediate seam

plate 85.5

rivets 86

Percentage of strength of longitudinal joint

plate 85.5

rivets 86

Thickness of butt straps

outer 1 1/8"

inner 1 1/4"

No. and Description of Furnaces in each Boiler

3 cf.

Material

S

Tensile strength

26-30

Smallest outside diameter

3'-9 1/4"

Length of plain part

top

bottom

Thickness of plates

crown 1/16"

bottom 1/16"

Description of longitudinal joint

weld

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

End plates in steam space: Material

S

Tensile strength

26-30

Thickness

1 3/32"

Pitch of stays 20"x21"

How are stays secured

Double nuts.

End plates: Material

front S

back S

Tensile strength

26-30

Thickness

15/16"

25/32"

Can pitch of stay tubes in nests

9.7"

Pitch across wide water spaces

14"x8 1/4"

Orders to combustion chamber tops: Material

S.

Tensile strength

28-32

Depth and thickness of girder

Centre 10 1/2"x11 1/8" Dblk.

Length as per Rule

33 17/32"

Distance apart

9 1/4"

No. and pitch of stays

Each 3 @ 8"

Combustion chamber plates: Material

S

Tensile strength

26-30

Thickness: Sides

1/16"

Back

1/16"

Top

1/16"

Bottom

13/16"

Pitch of stays to ditto: Sides

9 1/4"x8"

Back

9 1/4"x8"

Top

9 1/4"x8"

Are stays fitted with nuts or riveted over

nuts

Bottom plate at bottom: Material

S

Tensile strength

26-30

Thickness

15/16"

Lower back plate: Material

S

Tensile strength

26-30

Thickness

27/32"

Pitch of stays at wide water space

14"x8"

Are stays fitted with nuts or riveted over

nuts

Shipping stays: Material

S

Tensile strength

28-32

Gage

At body of stay,

3 1/4"

Over threads

No. of threads per inch

6

New stays: Material

S

Tensile strength

26-30

Gage

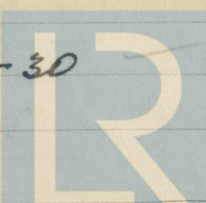
At turned off part,

13 1/4"

Over threads

No. of threads per inch

9



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Are the stays drilled at the outer ends no Margin stays: Diameter { At turned off part, or Over threads 1 1/8" x 2" ✓
No. of threads per inch 9 ✓
Tubes: Material S.D. Steel External diameter { Plain 3" ✓ Thickness { 8 W.G. No. of threads per inch 9 ✓
Pitch of tubes 4 1/4" x 4 1/8" ✓ Section of compensating ring none No. of rivets and diameter of rivet holes
shell plate none Depth of flange if manhole flanged
Outer row rivet pitch at ends
Tensile strength Thickness of shell Description of longitudinal joint
Diameter of rivet holes Pitch of rivets Percentage of strength of joint { Plate Rivets
Internal diameter Thickness of crown No. and diameter
stays Inner radius of crown
How connected to shell Size of doubling plate under dome Diameter of rivet holes and
of rivets in outer row in dome connection to shell

Type of Superheater

Manufacturers of { Tubes Steel forgings Steel castings
Number of elements Material of tubes Internal diameter and thickness of tubes
Material of headers Tensile strength Thickness Can the superheater be shut off
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 Are drain cocks
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. DIRECTOR

Dates of Survey { During progress of work in shops - - - 1941 DEC. 8. 1942 JAN. 14/16. FEB. 19. 23. 24. 26. JULY 14. Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)
while building { During erection on board vessel - - - 1942 SEPT. 25. OCT. 14. 28. NOV. 23. DEC. 29.
1942 FEB. 18. MAR. 20. 31. 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. Type

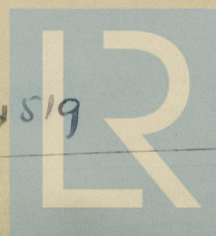
GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been constructed under Special Survey in accordance with the Approved Plans the Requirements of the Rules & the Specification. The materials & workmanship are good & the boiler found sound & tight under hydraulic test. The boiler is now stored until assigned to a vessel.

Survey Fee 1/3 of gross boiler fee £ 15 : 5 : 6 20 MAY 1943
Travelling Expenses (if any) £ : : When applied for, 19
When received, 19

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

Assigned In minute see Sec. J.E. Leahy Rph. 34519



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