

REPORT ON BOILERS.

No. 16637

4 JUN 1928

Received at London Office

Date of writing Report 19.5.25

When handed in at Local Office 25.5.25

Port of

WEST HARTLEPOOL

No. in Survey held at

West Hartlepool

Date, First Survey

31st Jan 28

Last Survey

23rd May 1928

on the

S S "HINDPOOL"

(Number of Visits)

Gross
Tons
Net

aster

Built at

West Hartlepool

By whom built

Wm Gray & Co. Ltd.

Yard No. 1006

When built 1928

Engines made at

West Hartlepool

By whom made

Central Marine Engine

Engine No. 1006

When made 1928

Boilers made at

ditto.

By whom made

Works.

Boiler No. 1006

When made 1928

Nominal Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

D. Cobville & Sons Ltd

(Letter for Record S.)

Total Heating Surface of Boilers

7614 sq. ft.

Is forced draught fitted

yes

Coal or Oil fired

coal

No. and Description of Boilers

Three single ended

Working Pressure 180 lbs

Tested by hydraulic pressure to

320 lbs

Date of test

23.3.28

No. of Certificate

3732

Can each boiler be worked separately

yes

Area of Firegrate in each Boiler

57.5 sq. ft.

No. and Description of safety valves to each boiler

2 Cookburns improved high lift

Area of each set of valves per boiler

per Rule 8.134 sq. in.

as fitted

9.82 sq. in.

Pressure to which they are adjusted

185 lb

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

no side bunkers

oil fuel carried in the double bottom under boilers

no

Smallest distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

Largest internal dia. of boilers

15'-9 7/16"

Length

11'-0"

Shell plates: Material

Steel

Tensile strength

28/32

Thickness

1 3/32"

Are the shell plates welded or flanged

no

Description of riveting: circ. seams

end DR tap

g. seams

J.R. D.B.S.

Diameter of rivet holes in

circ. seams 1 3/8"

long. seams 1 5/16"

Pitch of rivets

4 3/8"

Percentage of strength of circ. end seams

plate 68.5.

rivets 42.1

Percentage of strength of circ. intermediate seam

plate

rivets

Percentage of strength of longitudinal joint

plate 85.8

rivets 87.8

combined 89.1

Working pressure of shell by Rules

180 lbs.

Thickness of butt straps

outer 1"

inner 1 1/8"

No. and Description of Furnaces in each Boiler

3 Deightons

Material

Steel

Tensile strength

26/30

Smallest outside diameter

46 7/16"

Length of plain part

top

bottom

Thickness of plates

crown 1 1/2"

bottom 3/32"

Description of longitudinal joint

welded

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

Working pressure of furnace by Rules

188 lbs

d plates in steam space: Material

Steel

Tensile strength

26/30

Thickness

1 5/16"

Pitch of stays

21" x 21 1/2"

How are stays secured

Double nuts and washers

Working pressure by Rules

181 lbs.

Boiler plates: Material

front Steel

back Steel

Tensile strength

26/30

Thickness

3/8"

13/16"

Pitch of stay tubes in nests

13 1/2" x 9"

Pitch across wide water spaces

14 1/4" x 9"

Working pressure

front 185 lbs

back 187 lbs

Boilers to combustion chamber tops: Material

Steel

Tensile strength

28/32

Depth and thickness of girder

Centre

9 1/4" x 1 1/2"

Length as per Rule

35 1/2"

Distance apart

9"

No. and pitch of stays

Each

Three 9"

Working pressure by Rules

180 lbs

Combustion chamber plates: Material

Steel

Tensile strength

26/30

Thickness: Sides

21/32"

Back

21/32"

Top

21/32"

Bottom

3/4"

Pitch of stays to ditto: Sides

9 1/4" x 9"

Back

9 1/4" x 9"

Top

9" x 9"

Are stays fitted with nuts or riveted over

nuts

Working pressure by Rules

183 lbs

Front plate at bottom: Material

Steel

Tensile strength

26/30

Thickness

3/8"

Lower back plate: Material

Steel

Tensile strength

26/30

Thickness

3/8"

Pitch of stays at wide water space

16" x 9 1/4"

Are stays fitted with nuts or riveted over

nuts

Working Pressure

183 lbs

Main stays: Material

Steel

Tensile strength

28/32

At body of stay,

3 3/8"

No. of threads per inch

6

Area supported by each stay

21 1/2" x 21"

Working pressure by Rules

194 lbs

Screw stays: Material

Steel

Tensile strength

26/30

At turned off part,

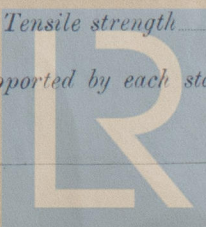
1 1/8"

No. of threads per inch

9

Area supported by each stay

9 1/4" x 9"

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PILLAR

"

"

"

"

Centre
Stiffener

Plating

STRINGER
Upper
String

"

"

Thick
in w

Thick
in w

Thick

If Shear

Second
Stringer

STRAKE

FLAT PLATE K

" DBLG

BOTTOM PLATING
of Strakes

BILGE PLATING
Strakes

SIDE PLATING
Strakes

UPPER DECK
strake in W

UPPER DECK
strake in B

STRAKE BELOW
strake in W

STRAKE BELOW
strake in B

POOP SIDE PL

BRIDGE SIDE I

FORECASTLE SID

Total No. of

E

A

MIDSHIP BU

"

"

"

COLLISION

AFTER PEAK

STEEL

H

Working pressure by Rules *183 lb* Are the stays drilled at the outer ends *no* Margin stays: Diameter *1 1/8"* ^{At turned off part.}
No. of threads per inch *9* Area supported by each stay *11 1/2" x 9 1/4"* Working pressure by Rules *200 lb*
Tubes: Material *Iron* External diameter *3 3/4"* Thickness *3/8"* No. of threads per inch *9*
Pitch of tubes *4 1/2" x 4 1/2"* Working pressure by Rules *180 lb* Manhole compensation: Size of opening in
shell plate *16" x 20"* Section of compensating ring *21" x 1 3/32"* No. of rivets and diameter of rivet holes *28 1 1/2"*
Outer row rivet pitch at ends *10"* Depth of flange if manhole flanged *✓* Steam Dome: Material *none*
Tensile strength *3001* Thickness of shell *3/8"* Description of longitudinal joint *Welded*
Diameter of rivet holes *2001* Pitch of rivets *2 1/2"* Percentage of strength of joint *100%*
Internal diameter *2001* Working pressure by Rules *180 lb* Thickness of crown *3/8"* No. and diameter of
stays *2001* Inner radius of crown *2001* Working pressure by Rules *180 lb*
How connected to shell *2001* Size of doubling plate under dome *2001* Diameter of rivet holes and pitch
of rivets in outer row in dome connection to shell *2001*
Type of Superheater *None* Manufacturers of *None*
Number of elements *None* Material of tubes *None* Internal diameter and thickness of tubes *None*
Material of headers *None* Tensile strength *None* Thickness *None* Can the superheater be shut off and
the boiler be worked separately *None* Is a safety valve fitted to every part of the superheater which can be shut off from the boiler *None*
Area of each safety valve *None* Are the safety valves fitted with easing gear *None* Working pressure as per
Rules *None* Pressure to which the safety valves are adjusted *None* Hydraulic test pressure *None*
tubes *None* and after assembly in place *None* Are drain cocks or valves fitted *None*
to free the superheater from water where necessary *None*
Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with *yes.*

FOR THE CENTRAL MARINE ENGINE WORKS.

(W. Gray & Co. Ltd.)

The foregoing is a correct description.

MANAGING DIRECTOR C.M.E.W.

Dates of Survey *During progress of work in shops - - -* Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) *✓*
while building *During erection on board vessel - - -* *All machinery etc.* Total No. of visits *2.0.0. 9.11*

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

See accompanying machinery report.

Survey Fee ... £ : When applied for, 192
Travelling Expenses (if any) £ : When received, 192

R. D. Philston

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

FRI. 8 JUN 1928

Assigned

see Minute

on Npl. Rpt 16637 attached



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