

## REPORT ON BOILERS.

No. 16505

Received at London Office

29 JUN 1927

Date of writing Report

192

When handed in at Local Office

25.6.

1927. Port of

WEST HARTLEPOOL

No. in  
Reg. Book.

Survey held at

West Hartlepool

Date, First Survey

26<sup>th</sup> January

Last Survey

21<sup>st</sup> June 1927

on the

S.S. "ROMANBY"

(Number of Visits

Tons

Gross 4887

Net 2997

27. Master

Built at West Hartlepool

By whom built

Wm Gray &amp; Co. Ltd.

Yard No. 987

When built 1927

Engines made at

West Hartlepool

By whom made

Central Marine Engine Works

Engine No. 987

When made 1927

Boilers made at

ditto

By whom made

ditto

Boiler No. 987

When made 1927

Nominal Horse Power

Owners

Port belonging to

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

S.S.

Manufacturers of Steel

D. Colville &amp; Sons Ltd.

(Letter for Record S)

13/6

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

20.5.27

No. of Certificate

3698

Can each boiler be worked separately yes

Area of Firegrate in each Boiler

63 1/2 sq. ft.

No. and Description of safety valves to each boiler

2 Cockburns high lift

Area of each set of valves per boiler

per Rule 10.85

as fitted 11.88

Pressure to which they are adjusted

185 lbs

Are they fitted with easing gear yes

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

ex

Smallest distance between boilers or uptakes and bunkers or woodwork

no side bunkers

Is 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

1 3/8"

inter.

4 3/8"

Pitch of rivets

9 1/4"

Percentage of strength of circ. end seams

plate

68.5

rivets

61.7

Percentage of strength of circ. intermediate seam

plate

85.8

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 1/16"

Length of plain part

top

bottom

Thickness of plates

crown 19"

bottom 32"

Description of longitudinal joint

Welded

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

Working pressure of furnace by Rules

188 lbs

Plates in steam space: Material

Steel

Tensile strength

26/30

Thickness

1 5/16"

Pitch of stays

21" x 21 1/2"

Are stays secured

Double nuts &amp; washers

Working pressure by Rules

181 lbs

Front plates: Material

front Steel

back Steel

Tensile strength

26/30

Thickness

5"

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

Boards 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 2 1/2"

Back 2 1/2"

Top 2 1/2"

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

5"

Lower back plate: Material

Steel

Tensile strength

26/30

Thickness

5"

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

Pitch of stays

At body of stay, or

Over threads

3 3/8"

No. of threads per inch

6

Area supported by each stay

21 1/4" x 21"

Working pressure by Rules

194 lbs

Screw stays: Material

Steel

Tensile strength

26/30

Pitch of stays

At turned off part, or

Over threads

1 5/8"

No. of threads per inch

9

Area supported by each stay

9 1/4" x 9"

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Foundation

W289-0163



Working pressure by Rules 183 lb Are the stays drilled at the outer ends no Margin stays: Diameter { At turned off part, 1 7/8" or Over threads 1 7/8" ✓

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 { Plain 3 1/4" Stay 3 1/4" ✓ Thickness { 9 W.G. ✓ 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 Thickness of shell Description of longitudinal joint

Diameter of rivet holes Pitch of rivets Percentage of strength of joint { Plate Rivets

Internal diameter Working pressure by Rules Thickness of crown No. and diameter of stays Inner radius of crown Working pressure by Rules

How connected to shell Size of doubling plate under dome Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell

Type of Superheater none Manufacturers of { Tubes 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 and 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 Working pressure as per Rules

Pressure to which the safety valves are adjusted Hydraulic test pressure: tubes, castings and after assembly in place Are drain cocks or valves fitted to free the superheater from water where necessary

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with

yes.  
FOR THE CENTRAL MARINE ENGINE WORKS,  
The foregoing is a correct description,  
John H. Seering Manufacturer.  
DIRECTOR Yes.

Dates of Survey { During progress of work in shops - - }  
while building { During erection on board vessel - - }

See machinery report

Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)  
Total No. of visits

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. Shilston.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI 1 JUL 1927

Assigned

See p. 8 of attached



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