

## REPORT ON BOILERS.

No. 30. 118

Date of writing Report 27-8-17 191

When handed in at Local Office 30-8-17 191

Received at London Office

MON SEP - 3 1917

No. in Survey held at

Hull

Date, First Survey

May 1<sup>st</sup>

Last Survey 30-8-17 191

(Number of Visits 29

Gross 324  
Net 131

When built 1917-8

When made 1917-8

When made 1917-8

Port belonging to

Master

Built at

Selby

By whom built

Cochrane &amp; Sons Ltd

Engines made at

Middlesbrough

By whom made

Richardson &amp; Wutgarth &amp; Co. Ltd (2380)

Boilers made at

Hull

By whom made

C. J. Holmes &amp; Co. Ltd (A5)

Registered Horse Power

87

Owners

British Admiralty

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

(Letter for record S)

Total Heating Surface of Boilers 1440 sq ft

Is forced draft fitted

no

No. and Description of

Boilers one single ended

Working Pressure 200

Tested by hydraulic pressure to 400

Date of test 27-7-17

No. of Certificate 3226 Can each boiler be worked separately

Area of fire grate in each boiler 48 sq ft

No. and Description of

safety valves to each boiler two spring loaded

Area of each valve 4.9 sq in

Pressure to which they are adjusted 205 lbs

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

on uptakes and bunkers or

woodwork

8" Bl lagged

dia. of boilers

16.5"

Length 10'-8"

Material of shell plates

steel

Thickness 1 5/16"

Range of tensile strength 28-32 tons

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams double

long. seams

R. &amp; B. S.

Diameter of rivet holes in long. seams 1 1/4"

Pitch of rivets 8 5/8"

Top of plates or width of butt straps 18"

Per centages of strength of longitudinal joint

rivets 85.9

Working pressure of shell by

rules 202

Size of manhole in shell 16" x 12"

Size of compensating ring 7" x 1 1/4"

No. and Description of Furnaces in each

boilers three plain

Material steel

Outside diameter 40"

Length of plain part

top 78 1/2"

Thickness of plates

crown 1 13/16"

Description of longitudinal joint

welded

No. of strengthening rings

Working pressure of furnace by the rules

206

Combustion chamber

plates: Material steel

Thickness: Sides 3/4"

Back 23/32"

Top 3/4"

Bottom 3/4"

Pitch of stays to ditto: Sides 10" x 6"

Back 9 1/2" x 8 1/2"

Top 11" x 8" If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules 208

Material of stays steel

Diameter at

smallest part 2 1/2"

Area supported by each stay 88 sq in

Working pressure by rules 211

End plates in steam space: Material steel

Thickness 1 1/2"

Diameter at

Pitch of stays 9 1/2" x 7 1/2" How are stays secured

R. &amp; B. S.

Working pressure by rules 210

Material of stays steel

Diameter at smallest part 7 1/2"

Area supported by each stay 335 sq in

Working pressure by rules 233

Material of Front plates at bottom steel

Thickness 1 5/16"

Material of

lower back plate steel

Thickness 1 5/16"

Greatest pitch of stays 13 3/4" x 9 1/2"

Working pressure of plate by rules 216

Diameter of tubes 3 1/2"

Pitch of tubes 4 7/8"

Material of tube plates steel

Thickness: Front 1 5/16"

Back 7/8"

Mean pitch of stays 10"

Pitch across wide

water spaces 14"

Working pressures by rules 275

Girders to Chamber tops: Material steel

Depth and thickness of

order at centre 11" x 1 3/4"

Length as per rule 36.22

Distance apart 11"

Working pressure by rules 201

Superheater or Steam chest: how connected to boiler

Can the superheater be shut off and the boiler worked

separately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

The foregoing is a correct description,

for CHARLES D. HOLMES &amp; CO. LTD.

Manufacturer.

During progress of 1917: May 3, 9, 23, 29, Jun. 11, 14, July 12, 6, 10, 13, 18, 19, 21, Is the approved plan of boiler forwarded herewith

Survey while building (During erection on board vessel - - -) 25, 27, 31, Aug. 2, 13, 15, 17, 20, 22, 23, 24, 29, 30, Total No. of visits 29.

## GENERAL REMARKS

(State quality of workmanship, opinions as to class, &amp;c.)

This boiler has been constructed under special survey in accordance with the approved plans & the rules of this society the materials & workmanship are good. It has been tested by hydraulic pressure above & found sound & tight. The Boiler has been properly fitted & secured & the vessel & its safety valves adjusted.

Survey Fee

£

6

10

When applied for, 31-8

1917

Travelling Expenses (if any) £

When received, 31-8

1917

Committee's Minute

TUE SEP - 4 1917

Signed

Frank A. Stanger  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.



Lloyd's Register  
Foundation

W609-0031