

Rpt. 5a.

REPORT ON BOILERS.

No. 34060

WED. 8 AUG. 1917

Received at London Office

Date of writing Report 21. 4. 1917 When handed in at Local Office 1917

Port of

GLASGOW

No. in Survey held at Glasgow

Date, First Survey 8. 3. 16

Last Survey 19. 4. 1917

Req. Book.

on the Main Boilers for the S. S. "GARTHOLYDE"

(Number of Visits)

Gross
Tons
Net

Master

Built at Glasgow

By whom built River Clyde SBC 08102

When built 1917

Engines made at Dundee

By whom made

Cooper & Co. Ltd. 1914

When made

1914

Boilers made at Glasgow

By whom made

Dunsmuir & Jackson (SBC) 1917

When made

1917

Registered Horse Power

Owners Messrs Blyth & Gylson Ltd

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Colvill & Co. Ltd. Glasgow

(Letter for record R)

Total Heating Surface of Boilers 37347

Is forced draft fitted No

No. and Description of

Boilers 2 Single Ended

Working Pressure 180

Tested by hydraulic pressure to 360

Date of test 19. 4. 17

No. of Certificate 13458

Can each boiler be worked separately Yes

Area of fire grate in each boiler 563/8

No. and Description of

safety valves to each boiler 1 Pair Spring loaded

Area of each valve 4.06 sq. in.

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 No

Smallest distance between boilers or uptakes and bunkers or woodwork 10"

Mean dia. of boilers 14. 1/4" Length 10-6"

Material of shell plates S

Thickness 1 1/4"

Range of tensile strength 28-32

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams DR

long. seams TR 10 BS

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

Pitch of rivets 8 1/2"

Top of plates or width of butt straps 1-6 3/4"

Per centages of strength of longitudinal joint rivets 91.4

plate 85.29

Working pressure of shell by

rules 181.

Size of manhole in shell 16 1/2"

Size of compensating ring 6 3/4" x 1 1/2"

No. and Description of Furnaces in each

boiler 3 Corrugated

Material S

Outside diameter 3-9"

Length of plain part

top

Thickness of plates

crown 17/32

Description of longitudinal joint mild.

No. of strengthening rings

Working pressure of furnace by the rules 182

Combustion chamber

plates: Material S

Thickness: Sides 5/8"

Back 5/8"

Top 5/8"

Bottom 13/16"

Pitch of stays to ditto: Sides 47/8" x 9"

Back 8 3/4" x 8"

Top 47/8" x 9"

If stays are fitted with nuts or riveted heads DN

Working pressure by rules 94

Material of stays Iron

Area at

smallest part 199 3/4" x 30 3/4"

Area supported by each stay 40"

Working pressure by rules 210

End plates in steam space: Material S

Thickness 15/32"

Pitch of stays 19 3/8" x 18"

How are stays secured DN

Working pressure by rules 186

Material of stays S

Area at smallest part 5.78"

Area supported by each stay 33 5/8"

Working pressure by rules 181

Material of Front plates at bottom S

Thickness 1 1/32"

Material of

Lower back plate S

Thickness 29/32"

Greatest pitch of stays 15.83/4"

Working pressure of plate by rules 188

Diameter of tubes 3 1/2"

Pitch of tubes 47/8" x 5"

Material of tube plates S

Thickness: Front 1 1/32"

Back 29/32"

Mean pitch of stays 12 5/16"

Pitch across wide

water spaces 14 1/2"

Working pressures by rules 181

Girders to Chamber tops: Material Iron

Depth and thickness of

girder at centre 8 1/2" (2)

Length as per rule 2.63/32"

Distance apart 8 3/4"

Number and pitch of Stays in each 3 at 47/8"

Working pressure by rules 184

Steam dome: description of joint to shell

% of strength of joint

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

SUPERHEATER. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

Date of Test

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve

Pressure to which each is adjusted

DUNSMUIR & JACKSON

Is Easing Gate fitted

Survey request form

The foregoing is a correct description,

Director

Manufacturer.

No. 1854 attached to Gb. Rpt. No. 34051

Dates

During progress of

work in shops - - 1916 Dec. 8, 14, 16, 18, 20, 22, 24, 26, 28, 30, Jan. 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, Feb. 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, Mar. 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, Apr. 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, May 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, Jun. 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, Jul. 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, Aug. 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, Sep. 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, Oct. 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, Nov. 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, Dec. 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 1917

while

During erection on

board vessel - - 1917 Jan. 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, Feb. 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, Mar. 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, Apr. 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, May 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, Jun. 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, Jul. 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, Aug. 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, Sep. 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, Oct. 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, Nov. 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, Dec. 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 1917

building

board vessel - -

Total No. of visits 34

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

These boilers have been

built under Special Survey in accordance with the

approved plan. The workmanship & material are

of good quality. These boilers will be fitted on board in the

Blyde. (Dupl. of B68 Lbs Rpt. No. 37054)

The Boilers have now been securely fitted on board & their safety valves adjusted

Survey Fee

£ 10 : 16

When applied for

1917

Travelling Expenses (if any)

£ 10 : 9 : 4

When received

9/8/17

Committee's Minute

GLASGOW

7 - AUG. 1917

Assigned

Deferred

Engineer Surveyor to Lloyd's Register of Shipping.

Fred. R. Ferguson

6/10/17

Lloyd's Register
Foundation