

Rpt. 5a.

REPORT ON BOILERS.

W1012-0223

No. 34697.

WELL 24 APR 1918

Date of writing Report 18 April 1918

When handed in at Local Office

Received at London Office

No. in Survey held at

Reg. Book.

458 on the

Manoeuvring Air Reservoirs

Date, First Survey

Port of

Last Survey

15 April 1918

(Number of Visits 5)

Gross Tons

Net

Master

Built at

By whom built

Barclay Curle & Co. Ltd. 519 When built 1918

Engines made at

By whom made

Harland & Wolff Ltd. Glasgow 1918

Boilers made at

By whom made

Lindsay Bowmer & Co. 1918

Registered Horse Power

Owners

Glen Line Ltd

When made 1918

Port belonging to

Glasgow

MANOEUVRING AIR RESERVOIRS

MULTITUBULAR BOILERS MAIN, AUXILIARY OR DONKEY

Letter for record

S

Total Heating Surface of Boilers

Manufacturers of Steel

Steel Coy of Scotland

Three Air Reservoirs

Working Pressure

356 lbs

Is forced draft fitted

No. and Description of

No. of Certificates

14209

Can each boiler be worked separately

Tested by hydraulic pressure to

712 lbs

Date of tests

14/18

Safety valves to each boiler

2 spring loaded

Area of each valve

7.07 sq in

No. and Description of

Are they fitted with easing gear

Pressure to which they are adjusted 360 lbs

Smallest distance between boilers or uptakes and bunkers or woodwork

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

Material of shell plates

Steel

Thickness

1 3/4

Range of tensile strength

28/32

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

Lap S. R.

long. seams

Lap Riv Butts

Diameter of rivet holes in long. seams

1 3/16

Pitch of rivets

8 3/16

Pitch of plates or width of butt straps

17 1/2

Per centages of strength of longitudinal joint

rivets 91.9

plate 85.5

Working pressure of shell by

Rules 400 lbs

Size of manhole in

Steel

16" x 12"

Size of compensating ring

Steel flanged in.

No. and Description of Furnaces in each

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber

plates: Material

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

Material of stays

Diameter at

smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space: Material

Steel

Thickness

13 1/16

Pitch of stays

How are stays secured

4'0" Rad.

Working pressure by rules

356 lbs

Material of stays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Thickness

Material of

Lower back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

Diameter of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

Pitch across wide

water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and thickness of

rider at centre

Length as per rule

Distance apart

Number and pitch of Stays in each

Working pressure by rules

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

holes

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

Survey request form

No. 2131 attached

The foregoing is a correct description,

Lindsay Bowmer & Co. Manufacturers

Is the approved plan of boiler forwarded herewith

Yes

Total No. of visits 5

Dates of Survey
 During progress of work in shops - 1918 Mar 26, Apr 2, 8, 11, 15.
 while building - During erection on board vessel -

GENERAL REMARKS

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

These reservoirs have been built under special survey, in accordance with the approved plan. The workmanship and material is good, and they are in my opinion suitable for a working pressure of 356 lbs per square inch.

These reservoirs have now been satisfactorily fitted on board the vessel.

Survey Fee ... 6: 6: :
 Travelling Expenses (if any) £

When applied for, 22-4-1918.

When received, 8. 6. 1918

106 NOV. 15 1918

9-11-18

Committee's Minute

GLASGOW. 23 APR 1918

Assigned

TRANSMIT TO LONDON

GLASGOW. 24 SEP 1918

See Gls. Rpt. No. 88170

FRI AUG 22 1918

FRI 9 MAY 1918

FRI 10 MAY 1918

Lloyd's Register Foundation

W1012-0224

TUE. 14 OCT. 1919

FRI. 23 JAN. 1920

Surveyor's Signature *Wm. W. ...*

1000

wood frame



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Lloyd's Register
Foundation

Assigned

Committee

Survey Fee
Traveling

Survey

GENERAL

Dates
of Survey
while
building

Thickness of

plates

Radius of do

Lap of plate

Weight

Enter the do

No. of safety

test by hy

Made of

VEIT

Boiler

Maste

No. in

Reg. Bk

458

Date of