

REPORT ON BOILERS.

No. 34565

Date of writing Report 4-3 1918 When handed in at Local Office

Received at London Office WED. MAR. 13 1918.

No. in Survey held at Renfrew
Reg. Book. 314 on the RapiarPort of Glasgow
Date, First Survey 6/11/17. Last Survey 7-3 1918

(Number of Visits 16.7) Gross Tons Net

Master Built at Bristol

By whom built Glas Hill Coy. (95128)

When built 1918

Engines made at Hartlepool

By whom made Richardson & Co. Ltd. (2149)

When made 1918

Boilers made at Renfrew

By whom made Balcrook & Co. Ltd. (2149)

When made 1918

Registered Horse Power

Owners Richard Tulpin (Shipping) Ltd

Port belonging to Bristol

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel Steel Co. of Scotland

Letter for record S Total Heating Surface of Boilers 4916 #

Is forced draft fitted Yes

No. and Description of

Boilers 2 Balcrook Boilers (2149)

Working Pressure 180

Tested by hydraulic pressure to 360 lb

Date of test 10.9.18

No. of Certificate 344

Can each boiler be worked separately Yes

Area of fire grate in each boiler 116 #

No. and Description of

Safety valves to each boiler Two Spring loaded

Area of each valve 12.56 #

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 3 ft.

Mean dia. of boilers 4-0"

Length 14-11 1/2"

Material of shell plates S

Thickness 1/2"

Range of tensile strength 26/30

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams DR

long. seams DR

Diameter of rivet holes in long. seams 27/32"

Pitch of rivets 3 1/4"

Width of butt straps 7"

Per centages of strength of longitudinal joint rivets 77.5%

Working pressure of shell by

Rules 205

Size of manhole in shell 15-11"

Size of compensating ring 11"

No. and Description of Furnaces in each

Boiler Material

Outside diameter

Length of plain part

Thickness of plates

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber

Material

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

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 S

Thickness 13/16"

How are stays secured

Radius

Working pressure by rules 220

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

Material

Thickness 3/4"

Greatest pitch of stays

Working pressure of plate by rules

Diameter of tubes 13 3/16"

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

Pitch across wide

Working pressures by rules

Girders to Chamber tops: Material

Depth and thickness of

Length as per rule

Distance apart

Number and pitch of Stays in each

Superheater or Steam chest: how connected to boiler

Can the superheater be shut off and the boiler worked

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

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Area of safety valves to superheater

Are they fitted with easing gear

The foregoing is a correct description,

Balcrook & Co. Ltd. Manufacturer.

Is the approved plan of boiler forwarded herewith

Yes

Total No. of visits 16

During progress of work in shops

1917 10-15 Dec 14 1918 Jan 16-28 Feb 8-11-13-14

During erection on board vessel

15-18-20-25-28 Mar 15-17

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

These boilers have been built under special order in accordance with the approved plans. The workmanship is material and of good quality. Steam Drums tested to 360 lb. Headers tested to 400 lb. The mud drums 4700 lb. The parts are being shipped to Bristol and will be erected on board, tested to 60 lb. hydraulic pressure. Boilers erected in the shop previous to shipping.

Survey Fee

When applied for, 191

Travelling Expenses

When received, 191

Committee's Minute

GLASGOW. 12 MAR. 1918

TRANSMIT TO LONDON

FRI. OCT. 11. 1918

FRI. 24. JAN. 1919

FRI. 31. OCT. 1919

TUE. MAY. 10 1920

Lloyd's Register

Foundation

W663-0142