

REPORT ON BOILERS.

No. 34350

Received at London Office

WED. 2-JAN. 1918

Date of writing Report

191

When handed in at Local Office

191

Port of Glasgow

No. in Survey held at

Clydebank

Date, First Survey

31st July, 1917

Last Survey

8th Octr. 1917

Reg. Book.

on the Boilers 50 7/16 H.B.C. (Standard) S.S. "War Cobra"

(Number of Visits)

Gross 515 1/2

Net 3132

Master

Luffery

Built at

Belfast

By whom built

Harland & Wolff L^{td}

When built 1917

Engines made at

Belfast

By whom made

When made

Boilers made at

Clydebank

By whom made

John Brown & Co Ltd

When made 1917

Registered Horse Power

Owners

Shipping Controller

Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel & Colville Sons.

Letter for record 5 Total Heating Surface of Boilers 7668 sq ft Is forced draft fitted yes No. and Description of

Boilers Three single ended

Working Pressure 180 lbs

Tested by hydraulic pressure to 360 lbs

Date of test 8.10.17

No. of Certificate 13923

Can each boiler be worked separately Yes

Area of fire grate in each boiler 63.3 sq ft

No. and Description of

safety valves to each boiler 2-Direct Spring

Area of each valve 9.62 sq ft

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

Smallest distance between boilers or uptakes and bunkers or woodwork 8 ft

Mean dia. of boilers 15.6

Length 11.6

Material of shell plates steel

Thickness 1 1/4

Range of tensile strength 28/32 tons

Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams DR lap

long. seams DBS. TR

Diameter of rivet holes in long. seams 1 5/8

Pitch of rivets 9 3/8

Lap of plates or width of butt straps 19 1/2

Per centages of strength of longitudinal joint rivets 88.3

Working pressure of shell by plate 85.6

rules 182

Size of manhole in shell end 16 x 12

Size of compensating ring plate flanged in

No. and Description of Furnaces in each

boiler 3 Beighton

Material steel

Outside diameter 50 3/8

Length of plain part top

Thickness of plates crown 19

bottom 32

Description of longitudinal joint weld

No. of strengthening rings -

Working pressure of furnace by the rules 187

Combustion chamber

plates: Material steel Thickness: Sides 2 3/32

Back 11/16

Top 2 3/32

Bottom 2 3/32

Pitch of stays to ditto: Sides 10 5/8 x 9 1/4 Back 10 1/4 x 8 3/4

Top 10 5/8 x 9 1/4 If stays are fitted with nuts or riveted heads nuts

Working pressure by rules 180

Material of stays steel

Diameter at

smallest part 2.39

Area supported by each stay 99

Working pressure by rules 216

End plates in steam space: Material steel Thickness 1 1/2

Pitch of stays 21 3/4 x 20 1/2 How are stays secured DN & W

Working pressure by rules 189

Material of stays steel

Diameter at smallest part 8.29

Area supported by each stay 454

Working pressure by rules 189

Material of Front plates at bottom steel

Thickness 3 1/2

Material of

Lower back plate steel

Thickness 2 7/32

Greatest pitch of stays 13 5/8

Working pressure of plate by rules 205

Diameter of tubes 2 3/4

Pitch of tubes 4 x 3 7/8

Material of tube plates steel

Thickness: Front 3 1/2

Back 3/4

Mean pitch of stays 9 7/8

Pitch across wide

water spaces 13 5/8

Working pressures by rules 182

Girders to Chamber tops: Material steel

Depth and thickness of

girder at centre 2 plates 10 x 7/8

Length as per rule 36

Distance apart 10 5/8

Number and pitch of Stays in each 3 of 9 1/4

Working pressure by rules 182

Superheater or Steam chest: how connected to boiler none

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 -

If 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,

John Brown & Company, Limited.

Manufacturers 10.11.17

Dates of Survey During progress of 1917 July 31 Aug. 4 Sep. 3. 24 Oct. 1. 8.

while work in shops - -

building During erection on board vessel - - -

Is the approved plan of boiler forwarded herewith

Total No. of visits 6

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

These boilers have been constructed under special survey in accordance with the rules and approved plan, and have been tested by hydraulic pressure to 360 lbs. Materials & workmanship are good. The boilers have been forwarded to Belfast 12/12/17

Survey Fee ... £ 33 :

When applied for, 191

Travelling Expenses (if any) £ :

When received, 26-1-

1918

To be paid in Belfast by Harland & Wolff.

28-1-18

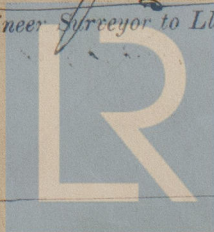
Harry Clarke.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 4-JAN. 1918

Assigned



Lloyd's Register of Shipping