

REPORT ON BOILERS.

No. 38402.

TUE. 31 DEC. 1918

Received at London Office

Date of writing Report

191

When handed in at Local Office

191

Port of Glasgow

No. in Survey held at

Dumbarton

Date, First Survey May 13th 1918

Last Survey 14th November 1918

Reg. Book.

on the

SS "WAR COWSLIP"

(Number of Visits 18)

Gross

Tons

Net

Master

Built at Glasgow

By whom built

Harland & Wolff Ltd (No 529) When built 1918

Engines made at

Glasgow

By whom made

Harland & Wolff Ltd (No 548) When made 1918

Boilers made at

Dumbarton

By whom made

Tom Denny & Bros (S.O. 303) When made 1918

Registered Horse Power

Owners

Port belonging to

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

Letter for record

(5)

Total Heating Surface of Boilers

7668

Is forced draft fitted

Yes

No. and Description of

Boilers 3 Single ended

Working Pressure 180

Tested by hydraulic pressure to 360

Date of test 14/11/18

No. of Certificate

14522

Can each boiler be worked separately

Yes

Area of fire grate in each boiler 63.3

No. and Description of

safety valves to each boiler

2 Spring loaded

Area of each valve

9.625

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 or woodwork

1'-9"

Mean dia. of boilers

15'-6"

Length 11'-6"

Material of shell plates

Steel

Thickness 1 1/4"

Range of tensile strength 28 to 32

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

lap double long. seams

butt table

Diameter of rivet holes in long. seams

5/16"

Pitch of rivets 9 1/8"

lap of plates or width of butt straps

19 1/2" x 1 1/2" 15 out

Per centages of strength of longitudinal joint

rivets 88.3

Working pressure of shell by

rules 182

Size of manhole in shell 16" x 12"

Size of compensating ring plate flanged

No. and Description of Furnaces in each

boiler 3 Doughton

Material Steel

Outside diameter 50 3/16"

Length of plain part

top

Thickness of plates

crown 19

Description of longitudinal joint

weld

No. of strengthening rings

Working pressure of furnace by the rules

187

Combustion chamber

plates: Material Steel

Thickness: Sides

23/32"

Back

11/16"

Top

23/32"

Bottom

23/32"

Pitch of stays to ditto: Sides

10 3/8" x 9 1/4"

Back

10 1/4" x 8 3/4"

Top 10 3/8" 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 2.395

Area supported by each stay

99"

Working pressure by rules

216

End plates in steam space: Material Steel Thickness 1 1/32"

Pitch of stays 2 1/4" x 20 3/8"

How are stays secured

2 1/2" 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

31/32"

Lower back plate

Steel

Thickness

22/32"

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 3/8"

Material of tube plates

Steel

Thickness: Front

31/32"

Back

3/4"

Mean pitch of stays

9 1/16"

Pitch across wide

13 1/8"

water spaces

13 1/8"

Working pressures by rules

182

Girders to Chamber tops: Material Steel

Depth and thickness of

girder at centre

10 x 7 1/2" double

Length as per rule

36

Distance apart

10 5/8"

Number and pitch of Stays in each (3) 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,

For WILLIAM DENNY & BROTHERS, LTD.

James Denny Director

Manufacturer.

Dates of Survey: During progress of 1918 May 13 June 6, 12, 25 July 3, 29 Aug 5, 21 Sep 3 Is the approved plan of boiler forwarded herewith

while building: During erection on 6, 25 Oct 1, 14, 22, 31 Nov 7, 8, 14

Total No. of visits 18

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been built

under special survey, the materials and workmanship are of

good description, they have been

I have boilers have now been satisfactorily fitted to the vessel

as directed 14/12/18

Survey Fee ... £ Summary : When applied for, 191

Travelling Expenses (if any) £ Rept : When received, 191

Assigned See attached machinery report

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

Committee's Minute GLASGOW.

30 DEC 1918



Lloyd's Register Foundation