

REPORT ON BOILERS.

No. 35892.

THU. 30 MAR. 1916

Received at London Office

Date of writing Report

191

When handed in at Local Office

191

Port of

Glasgow

No. in Survey held at

Date, First Survey

23/6/15

Last Survey

10/3/

1916

Reg. Book.

on the *Boiler No. 670 for S.S. Cliburn (Russell & Williamson Ltd 226 Vessel)*

(Number of Visits 32)

Gross

Tons

Net

Master

Built at

Workington

By whom built

R. Williamson & Son

When built

Engines made at

Coatbridge

By whom made

W. Beardmore & Co. Ltd (Sheffield Iron Co.)

When made

Boilers made at

Glasgow

By whom made

Messrs. A. & W. Dalglisch (670)

When made 1916

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel The Steel Co. of Scotland Ltd The

(Letter for record S)

Total Heating Surface of Boilers 1585

Is forced draft fitted

No. and Description of

Boilers

One single ended

Working Pressure 180 lb

Tested by hydraulic pressure to 360 lb

Date of test 10.3.16

No. of Certificate

13378

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of

safety valves to each boiler

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

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

Mean dia. of boilers

12-9"

Length 10-0"

Material of shell plates Steel

Thickness 1 1/16"

Range of tensile strength 28 1/2 to 32 tons

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams D.R.

long. seams T.R.D.B.S.

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

Pitch of rivets 8"

Lap of plates or width of butt straps 16 1/2"

Per centages of strength of longitudinal joint

rivets 86.9

plate 85.9

Working pressure of shell by

rules 185 lb

Size of manhole in shell

16 x 12

Size of compensating ring

2 7/8 x 1 1/2"

No. and Description of Furnaces in each

boiler Three, Plain Material Steel

Outside diameter 3-1"

Length of plates

top 72.68"

Thickness of plates

crown 11"

bottom 16"

Description of longitudinal joint

Weld

No. of strengthening rings

Working pressure of furnace by the rules

180 lb

Combustion chamber

plates: Material Steel

Thickness: Sides 3/32"

Back 5/8"

Top 21/32"

Bottom 3/4"

Pitch of stays to ditto: Sides 9 x 8"

Back 9 x 8"

Top 9 x 8 1/2"

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

187 lb

Material of stays Steel

Diameter at

smallest part 1 7/8"

Area supported by each stay

7.65 sq in

Working pressure by rules

210 lb

End plates in steam space: Material Steel

Thickness 1 1/16"

Pitch of stays 17 x 16"

How are stays secured

Nuts

Working pressure by rules

185 lb

Material of stays Steel

Diameter at smallest part 4 7/8"

Area supported by each stay

272 sq in

Working pressure by rules

182 lb

Material of Front plates at bottom Steel

Thickness 7/8"

Material of

Lower back plate Steel

Thickness 7/8"

Greatest pitch of stays 14"

Working pressure of plate by rules

260 lb

Diameter of tubes 3 1/2"

Pitch of tubes 4 5/8" x 4 5/8"

Material of tube plates Steel

Thickness: Front 1/8"

Back 3/4"

Mean pitch of stays 10.4"

Pitch across wide

water spaces 14" with 5/8 D.P.

Working pressures by rules

258 lb

Girders to Chamber tops: Material Steel

Depth and thickness of

girder at centre 8 3/4" x 1 1/4"

Length as per rule

30.625"

Distance apart 8 1/2"

Number and pitch of Stays in each

Two 9"

Working pressure by rules

180 lb

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

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

Survey request form

No. 1743 attached

The foregoing is a correct description,

A. & W. Dalglisch

Manufacturers

Dates

During progress of

1915 Jun 23 July 13 Aug 18 15 30 Sept 15 23 29 Oct

Is the approved plan of boiler forwarded herewith

Yes

of Survey

work in shops - - -

8.13.15.24.29. Nov 3.9.16.24. Dec 3.10.20.29.

while

During erection on

1916 Jan. 12.21.25. Feb 14.9.24. Mar 19.10.

building

board vessel - - -

Total No. of visits

32.

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

This boiler has been built

under Special Survey, the material and workmanship is good

The boiler will be fitted on board the S.S. Cliburn at Glasgow, by Messrs. W. Beardmore & Co. Ltd (Sheffield Iron Co.).

Survey Fee

£

See to be changed in Machinery Report

When applied for,

191

Travelling Expenses (if any) £

£

When received,

191

Shipping.

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

Committee's Minute GLASGOW

28 MAR. 1916

GLASGOW

30 MAY. 1916

FRI. JUN. - 2. 1916

Assigned

TRANSMIT TO LONDON

See minute on 46. Rpt.

No. 36026

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