

Rpt. 5a.

REPORT ON BOILERS.

No. 34893

WED. MAR. 3-1915

Date of writing Report 23.2.

When handed in at Local Office

Received at London Office

Port of GLASGOW

No. in Survey held at Glasgow.

Reg. Book.

Date, First Survey 3/11/14

Last Survey 19/2/1915

on the MAIN BOILER OF THE STEAM TRAWL, "ALIDA"

(Number of Visits 17)

Tons } Gross
Net

Master

Built at Dundee

By whom built Dundee SBC Co. (275)

When built

Engines made at Coathridge

By whom made

Lidgerwood & Co. 464

When made

Boilers made at Glasgow

By whom made

Dunsmuir, Jackson & Co. Ltd. 1915

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

Yemen, Colville, Dunlop, Beadman

(Letter for record 5)

Total Heating Surface of Boilers 1542 ft²

Is forced draft fitted No

No. and Description of

Boilers on Single End.

Working Pressure 200

Tested by hydraulic pressure to 400

Date of test 19.2.15

No. of Certificate 13786

Can each boiler be worked separately

Area of fire grate in each boiler 54 3/4 ft²

No. and Description of

safety valves to each boiler

Area of each valve

Pressure to which they are adjusted

Are they fitted with casing 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 13-7 1/32 Length 11-8

Material of shell plates S

Thickness 17/32

Range of tensile strength 28-32

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams DR

long. seams TR, DBS

Diameter of rivet holes in long. seams 1 1/4

Pitch of rivets 8 5/8

Pitch of plates or width of butt straps 1-7

Per centages of strength of longitudinal joint rivets 86.7

plate 86.7

Working pressure of shell by

Size of manhole in shell 16 1/2

Size of compensating ring 4 1/4

No. and Description of Furnaces in each

3 plain.

Material S

Outside diameter 3-5 1/2

Length of plain part top 6-7

bottom 7-0 1/2

Thickness of plates crown 13/16

Description of longitudinal joint weld.

No. of strengthening rings one

Working pressure of furnace by the rules 200

Combustion chamber

Material S

Thickness: Sides 23/32

Back 23/32

Top 23/32

Bottom 15/16

Pitch of stays to ditto: Sides 9x9

Back 9 5/8 x 9 3/8

If stays are fitted with nuts or riveted heads DN.

Working pressure by rules 204

Material of stays S

Diameter at

Area supported by each stay 88

Working pressure by rules 205

End plates in steam space: Material S

Thickness 1 1/4

How are stays secured DN.

Working pressure by rules 204

Material of stays S

Diameter at smallest part 6.9

Area supported by each stay 342

Working pressure by rules 210

Material of Front plates at bottom S

Thickness 1 3/32

Material of tube plates S

Thickness 31/32

Greatest pitch of stays 14 7/8 x 9 3/8

Working pressure of plate by rules 235

Diameter of tubes 3 1/2

Material of tube plates S

Thickness: Front 13/32

Back 29/32

Mean pitch of stays 12

Pitch across wide

Working pressures by rules 205

Girders to Chamber tops: Material Iron

Depth and thickness of

Length as per rule 36 5/8

Distance apart 8 7/8 + 10

Number and pitch of Stays in each 3 at 8 3/4

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

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with casing gear

Survey request form

DUNSMUIR & JACKSON, Limited.

The foregoing is a correct description,

1598 attached

Director, Manufacturer.

Dates

During progress of 1914 Nov. 3-9-12-17-27-30 Dec. 7-14-18-1915 Jan. 11-12

Survey work in shops - - - 14-19-20-26 Feb. 3-19

While During erection on board vessel - - -

Building

Total No. of visits 17

GENERAL REMARKS

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

This Boiler has been built under Special Survey in accordance with the approved plan & the workmanship & material are of good quality. This Boiler is being forwarded to Dundee, at which port it will be fitted on board.

Survey Fee

When applied for, 191

Travelling Expenses (Many)

When received, 191

W. Gordon Dunsmuir

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

FRI. DEC. 17. 1915

Committee's Minute

GLASGOW

2-MAR. 1915

Assigned

TRANSMIT TO LONDON



Lloyd's Register Foundation