

REPORT ON BOILERS.

No. 36849

Received at London Office

THU. 24 MAY 1917

Date of writing Report 23.4.1917 When handed in at Local Office

Port of

GLASGOW

No. in Survey held at
Reg. Book.

Glasgow

Date, First Survey

3.2.15

Last Survey

15.5.1917

1917

(Number of Visits)

Gross
Tons
Net

Master.

Built at

Dumfries

By whom built

Ayrshire Dockyard & Co. Ltd. When built 1917

Engines made at

Glasgow

By whom made

Dunsmuir Jackson & Co. (Ld.) When made 1917

Boilers made at

ditto

By whom made

ditto

When made

1917

Registered Horse Power

510

Owners

Indian & Co. Ltd. (Glasgow) Port belonging to Glasgow

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel James Dunlop, Glasgow, Colville

(Letter for record

R(5)

Total Heating Surface of Boilers

941

Is forced draft fitted

No

No. and Description of

Boilers

One Single Ended

Working Pressure

100

Tested by hydraulic pressure to

200

Date of test

5.9.16

No. of Certificate

13536

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

327

No. and Description of

safety valves to each boiler

Double Spring

Area of each valve

7.06

Pressure to which they are adjusted

105

Are they fitted with easing gear

Yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

No

Smallest distance between boilers or uptakes and bunkers or woodwork

4-6

Mean dia. of boilers

11.0

Length

9-6

Material of shell plates

S

Thickness

11/16

Range of tensile strength

28/32

Are the shell plates welded or flanged

—

Descrip. of riveting: cir. seams

DR

long. seams

TRL

Diameter of rivet holes in long. seams

1 1/16

Pitch of rivets

4

Lap of plates or width of butt straps

4 1/2

Per centages of strength of longitudinal joint

rivets 82

plate 43.3

Working pressure of shell by

rules

115

Size of manhole in shell

16 x 12

Size of compensating ring

53/4 x 3/4

No. and Description of Furnaces in each

boiler

Material

S

Outside diameter

3-5 3/8

Length of plain part

top 6-0

Thickness of plates

crown 19/32

bottom 19/32

Description of longitudinal joint

weld

No. of strengthening rings

—

Working pressure of furnace by the rules

112

Combustion chamber

plates: Material

S

Thickness: Sides

1/2

Back

17/32

Top

1/2

Bottom

3/4

Pitch of stays to ditto: Sides

3/4 x 9/4

Back

8 15/16 x 8 3/4

Top

3/4 x 8 1/4

If stays are fitted with nuts or riveted heads

sub

Working pressure by rules

110

Material of stays

Iron

Area at

smallest part

888/22/47

Area supported by each stay

48

Working pressure by rules

102

End plates in steam space: Material

S

Thickness

3/4

Pitch of stays

15 1/2 x 14 7/8

How are stays secured

DN

Working pressure by rules

110

Material of stays

S

Area at smallest part

3.43

Area supported by each stay

230

Working pressure by rules

130

Material of Front plates at bottom

S

Thickness

3/4

Material of

Lower back plate

S

Thickness

11/16

Greatest pitch of stays

16 x 8 3/4

Working pressure of plate by rules

116

Diameter of tubes

2 1/4

Pitch of tubes

4 1/4 x 4 1/2

Material of tube plates

S

Thickness: Front

3/4

Back

5/8

Mean pitch of stays

11

Pitch across wide

—

water spaces

14

Working pressures by rules

142

Girders to Chamber tops: Material

Iron

Depth and thickness of

girder at centre

6 x 8 1/4 (2)

Length as per rule

24-18 1/2

Distance apart

8 1/4

Number and pitch of Stays in each

2 at 7 3/4

Working pressure by rules

134

Steam dome: description of joint to shell

% of strength of joint

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

SUPERHEATER. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

Date of Test

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

The foregoing is a correct description,

James Dunlop, Glasgow, Colville

Manufacturer.

Dates of Survey

During progress of work in shops - - -

Is the approved plan of boiler forwarded herewith

while building

During erection on board vessel - - -

Total No. of visits

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 Report accompanies that of the Machinery

Survey Fee

£

When applied for,

191

Travelling Expenses (if any)

When received,

191

Charged on Machinery Report

Committee's Minute

GLASGOW

23 MAY 1917

Assigned

See accompanying machinery report.

Engineer Surveyor to Lloyd's Register of Shipping.

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