

REPORT ON BOILERS.

No. 34142

Received at London Office

WED. JUN. 24 1914.

Date of writing Report

191

When handed in at Local Office

20.6. 1914 Port of Glasgow

No. in Survey held at

Reg. Book.

on the

Date, First Survey

23.4.14

Last Survey

10.6.

1914.

(Number of Visits

Gross

Tons

Net

Master

Built at

Dundee

By whom built

Dundee S.B.C. (No 165) When built 1914

Engines made at

Coatbridge

By whom made

Lidderwood Lim (423) When made 1914

Boilers made at

Glasgow

By whom made

D. Rowan & Co (210) When made 1914

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

Schwartzkopf, Schmidt & Co. of Hückingen
Lanarkshire Steel Company Ltd.

(Letter for record

3

Total Heating Surface of Boilers

1438 sq ft

Is forced draft fitted

No. and Description of

Boilers

Single ended

Working Pressure

180

Tested by hydraulic pressure to

Date of test 10/6/14

No. of Certificate

12758

Can each boiler be worked separately

Area of fire grate in each boiler

49.5

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

Inside

dia. of boilers

13-6

Length

10-6

Material of shell plates

Steel

Thickness

1/32"

Range of tensile strength

28-32

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

Lap double

seams tubular

Diameter of rivet holes in long. seams

1/16"

Pitch of rivets

8 3/16"

Lap of plates or width of butt straps

7 3/4"

Per centages of strength of longitudinal joint

rivets 92

plate 85.7

Working pressure of shell by

rules

180

Size of manhole in shell

16 x 12

Size of compensating ring

33 x 29

flange

No. and Description of Furnaces in each

boiler

3 plain

Material

Steel

Outside diameter

41 9/16"

Length of plain part

top 6-3"

bottom 6-3"

Thickness of plates

crown 3/8"

bottom 3/8"

Description of longitudinal joint

Weld

No. of strengthening rings

1 per

Working pressure of furnace by the rules

93

Combustion chamber

plates: Material

Steel

Thickness: Sides

23/32"

Back

1/4"

Top

23/32"

Bottom

23/32"

Pitch of stays to ditto: Sides

10 9/16"

Back

8 3/4 x 9"

top 9 1/4 x 10"

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

193

Material of stays

Steel

Area

Diameter at

smallest part

1 7/16"

Area supported by each stay

78

Working pressure by rules

180

End plates in steam space: Material

Steel

Thickness

1 1/4"

Pitch of stays

9 1/2"

How are stays secured

27 nuts

Working pressure by rules

180

Material of stays

Steel

Area

Diameter at smallest part

7 1/16"

Area supported by each stay

404

Working pressure by rules

182

Material of Front plates at bottom

Steel

Thickness

23/32"

Material of

Lower back plate

Steel

Thickness

1/16"

Pitch of tubes

5 x 5 1/2"

Material of tube plates

Steel

Thickness: Front

22/32"

Back

22/32"

Mean pitch of stays

11 1/4"

Pitch across wide

water spaces

14"

Working pressures by rules

182

Girders to Chamber tops: Material

Steel

Depth and thickness of

girder at centre

10 1/2 x 8"

Length as per rule

37 1/2"

Distance apart

10"

Number and pitch of Stays in each

(3) 9 1/4"

Working pressure by rules

186

Superheater or Steam chest; how connected to boiler

2 in

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. 1419. attached

The foregoing is a correct description,

for David Rowan & Co. Manufacturer.

Dates

During progress of

work in shops - -

1914. Apr 23. May 14. 18. June 1. 9. 10.

Is the approved plan of boiler forwarded herewith

yes

while

During erection on

board vessel - - -

Total No. of visits

6

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

This boiler has been built under special survey, the materials and workmanship are of good description.

See changed on Machinery Report

Survey Fee

...

£

:

:

When applied for,

191

Travelling Expenses (if any) £

:

:

When received,

191

A. McLeod

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

Committee's Minute

GLASGOW

23 JUN. 1914

FRI. AUG. 14. 1914

Assigned

Deferred for compl.

C.H.A.



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Foundation

W309-0099