

Rpt. 5a.

REPORT ON BOILERS.

No. 34768

Received at London Office JAN 27 1915

Date of writing Report 15. 1. 1915 When handed in at Local Office

191 Port of GLASGOW

No. in Survey held at
Reg. Book.

Glasgow

Date, First Survey

29/7/14

Last Survey

14/1/

1915

on the

Marine boiler disengaged No 342
for Messrs Workman Clark & Co using works

Master

Built at

By whom built

When built

Engines made at

By whom made

When made

Boilers made at

By whom made

When made

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Spencer Colville & Co Ltd Glasgow

(Letter for record

S)

Total Heating Surface of Boilers

2208 4

Is forced draft fitted

No. and Description of

Boilers one Single Ended

Working Pressure

18 5

Tested by hydraulic pressure to

370

Date of test 14-1-15

No. of Certificate 13000

Can each boiler be worked separately

Area of fire grate in each boiler

55.7 4

No. and Description of

safety valves to each boiler

2-direct spring

Area of each valve

11-24 4

Pressure to which they are adjusted

170 lbs

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

18"

Mean dia. of boilers

13.10 9/64

Length

12-0

Material of shell plates

S

Thickness

9/64

Range of tensile strength

28-32

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

DR

long. seams

TR & DBS

Diameter of rivet holes in long. seams

1 3/16

Pitch of rivets

8 1/4"

Top of plates or width of butt straps

1-6"

Per centages of strength of longitudinal joint

rivets 87.4 %

Working pressure of shell by

rules

18 7

Size of manhole in shell

16 x 12"

Size of compensating ring

6 3/4 x 1 3/32

No. and Description of Furnaces in each

boiler 3 Corrugated Material

S

Outside diameter

3.8 1/2

Length of plain part

top

Thickness of plates

crown 3 5/64"

Description of longitudinal joint

weld

No. of strengthening rings

Working pressure of furnace by the rules

195

Combustion chamber

plates: Material

S

Thickness: Sides

1 1/16"

Back

1 1/16"

Top

1 1/16"

Bottom

1 5/16"

Pitch of stays to ditto: Sides

8 5/8 x 9 7/8"

Back

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

192

Material of stays

S

Smallest part

19 5/8 x 30 3/4"

Area supported by each stay

8 5/8"

Working pressure by rules

205

End plates in steam space: Material

S

Thickness

13/16"

Pitch

stays 18 x 17 3/4"

How are stays secured

DN

Working pressure by rules

194

Material of stays

S

Diameter

at smallest part

5 7/8"

Area supported by each stay

219"

Working pressure by rules

188

Material of Front plates at bottom

S

Thickness

1"

Material of

lower back plate

S

Thickness

29/32

Greatest pitch of stays

13 x 8 5/8"

Working pressure of plate by rules

200

Diameter of tubes

2 1/2"

Pitch of tubes

3 5/8 x 3 1/16"

Material of tube plates

S

Thickness: Front

1"

Back

13/16"

Mean pitch of stays

9 1/8"

Pitch across wide

water spaces

13 1/2"

Working pressures by rules

194

Girders to Chamber tops: Material

Iron

Depth and thickness of

Girders

at centre

10 x 1 1/2"

Working pressure by rules

191

Superheater or Steam chest: how connected to boiler

Yes

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

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. 1557. attached

No. 1557. attached

Dates During progress of 1914 July 29 Aug 3-6-13-17-18-24 Sep 13-16-21 Is the approved plan of boiler forwarded herewith

Survey

work in shops --

Oct. 2-7-13-19-28 Nov. 3-9-12-17-27-30 Dec. 7-14-18

while

During erection on

1915 Jan 12-14

building

board vessel --

Total No. of visits

27

Survey

Fee

£ 7 : 7

When applied for

26/1/15

1915

Travelling Expenses (if any)

£ :

When received

29/1/15

1915

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 to the order of Messrs James & Co Ltd. Glasgow & now intended for sale (Boiler at Messrs Workman Clark & Co).

Survey Fee

£ 7 : 7

When applied for

26/1/15

1915

Travelling Expenses (if any)

£ :

When received

29/1/15

1915

Committee's Minute

GLASGOW

26 JAN 1915

Assigned

TRANSMIT TO LONDON

Assigned

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