

Report for new vessel building by Grabbree & Co.
Rpt. 5a.

REPORT ON BOILERS.

Received at London Office

Date of writing Report

191

When handed in at Local Office

6/1/1920

Port of

Newcastle on Tyne

No. in

Survey held at

Hebburn on Tyne

Date, First Survey

3rd Sept. 1919

Last Survey

10th Nov 1919

Reg. Book.

on the

Boiler for S.S. "Picardy"

now fitted with Hadley's

(Number of Visits)

Tons

Net

Master

Built at

Grabbree & Co.

By whom built

Grabbree & Co.

No. 194

When built

1920.

Engines made at

Great Yarmouth

By whom made

Grabbree & Co.

No. 573

When made

1920.

Boilers made at

Hebburn

By whom made

Palmer's Coy Ltd

No. 966

When made

1919.

Registered Horse Power

Owners

R. & J. Park. Ltd

Port belonging to

London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

J. Spencer & Sons Ltd

Letter for record

S

Total Heating Surface of Boilers

1053 sq ft

Is forced draft fitted

No

No. and Description of

Boilers one S.E. cyl multitubular

Working Pressure

130 lb

Tested by hydraulic pressure to

260 lb

Date of test

27 Nov 19

No. of Certificate

9331

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

34 sq ft

No. and Description of

safety valves to each boiler

Two Direct Spring

Area of each valve

Pressure to which they are adjusted

135 lbs.

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

1' 6"

Mean dia. of boilers

11' 4 1/2"

Length

10' 0"

Material of shell plates

Steel

Thickness

3/4"

Range of tensile strength

28/32 tons

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

DR. Lap

long. seams

3.R. DR. Step

Diameter of rivet holes in long. seams

15/16"

Pitch of rivets

5"

Exp. of plates & width of butt straps

15"

Per centages of strength of longitudinal joint

82.1%

Working pressure of shell by

rules

131 1/2 lb

Size of manhole in shell

16" x 12"

Size of compensating ring

14" x 3 1/4"

No. and Description of Furnaces in each

boiler two plain

Material

Steel

Outside diameter

42"

Length of plain part

6' 0"

Thickness of plates

21"

Description of longitudinal joint

weld

No. of strengthening rings

none

Working pressure of furnace by the rules

132 1/2 lb

Combustion chamber

plates: Material

Steel

Thickness: Sides

7/8"

Back

7/8"

Top

7/8"

Bottom

15/16"

Pitch of stays to ditto: Sides

10 x 8 1/4"

Top

9 1/2 x 9"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

135 1/2 lb

Material of stays

Steel

Area at

smallest part

2.03 sq ft

Area supported by each stay

105 sq ft

Working pressure by rules

133 1/2 lb

End plates in steam space: Material

Steel

Thickness

27/32"

Pitch of stays

19 x 15 1/4"

How are stays secured

DR & W

Working pressure by rules

131 1/2 lb

Material of stays

Steel

Area at smallest part

4.1 sq ft

Area supported by each stay

290 sq ft

Working pressure by rules

147 lb

Material of Front plates at bottom

Steel

Thickness

27/32"

Material of

lower back plate

Steel

Thickness

27/32"

Greatest pitch of stays

13 x 10"

Working pressure of plate by rules

214 lb

Diameter of tubes

3 1/2"

Pitch of tubes

4 1/4 x 4 3/4"

Material of tube plates

Steel

Thickness: Front

27/32"

Back

3/4"

Mean pitch of stays

12"

Water spaces

14"

Working pressures by rules

150 lb

Girders to Chamber tops: Material

Steel

Depth and thickness of

girder at centre

8 x 13 1/8"

Length as per rule

29"

Distance apart

9"

Number and pitch of Stays in each

two - 9 1/2"

Working pressure by rules

184 1/2 lb

Steam dome: description of joint to shell

none

% 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

Palmer's Shipbuilding & Iron Co., Ltd.
The foregoing is a correct description,
J. Cameron
Boiler Shop Dept.
Manufacturer.

Dates

During progress of

work in shops - -

Survey

while

building

During erection on

board vessel - -

Is the approved plan of boiler forwarded herewith

Yes

Total No. of visits

6

GENERAL REMARKS

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

The Boilers built under Special Survey, The material and workmanship found good and efficient. The boiler was tested under 260 lb hydraulic pressure (ex mountings) and found satisfactory - working pressure 130 lb - Certificate number 9331 -

Survey Fee

£ 3 : 10

When applied for,

16 JAN 1920

Travelling Expenses (if any) £

When received,

26/3/1920

Committee's Minute

FRI. 19 MAR. 1920

TUE. AUG. 24 1920

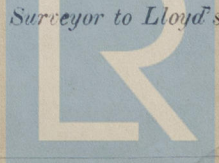
Engineer Surveyor to Lloyd's Register of Shipping.

Assigned

See Lon 82838

FRI. 10 JAN 1930

A. G. Farmer
& Leonard Challinor



Lloyd's Register
Foundation

W676-0037