

REPORT ON BOILERS.

No. 15755

WHIL 20 APL 1910

Received at London Office

Date of writing Report

19

When handed in at Local Office

5/4/10

10/10

Port of

Greenock.

No. in

Survey held at

Greenock.

Date, First Survey

1st April 1909.

Last Survey

4th April 1910.

Reg. Book.

on the SCREW STEAMER

"HIGHLAND PRIDE."

(Number of Visits

90)

Tons

Gross 7238.

Net 4548.

Master

Built at Port Glasgow

By whom built

Russell 1604

When built 1910

Engines made at

Greenock

By whom made

Rankin & Blackmore

when made

1910

Boilers made at

Greenock

By whom made

Rankin & Blackmore.

when made

1910.

Registered Horse Power

Owners

The Nelson Line London Line

Port belonging to

London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel S. Colville & Sons

(Letter for record

S.)

Total Heating Surface of Boilers

2874 sq. ft.

Is forced draft fitted

Yes, to 2 Boilers.

No. and Description of

Boilers 1 Cylindrical Mult. Single End

Working Pressure

210 lb.

Tested by hydraulic pressure to

420 lb.

Date of test

29/12/09

No. of Certificate

953

Can each boiler be worked separately

Yes.

Area of fire grate in each boiler

82 sq. ft.

No. and Description of

safety valves to each boiler

2 Direct Spring loaded

Area of each valve

8.29 sq. in.

Pressure to which they are adjusted

215 lb.

Are they fitted with easing gear

Yes.

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

Yes.

Smallest distance between boilers or uptakes and bunkers or woodwork

About 16 in.

Mean dia. of boilers

16 in. 6 in.

Length

12 ft. 0 in.

Material of shell plates

Steel

Thickness

1 1/2 in.

Range of tensile strength

20 1/2 to 33 tons

Are the shell plates welded or flanged

No.

Descrip. of riveting: cir. seams

Double and

long. seams

Double and

Diameter of rivet holes in long. seams

1 1/2 in.

Pitch of rivets

10 in. 5 in.

Lap of plates or width of butt straps

1 in. 11/2 in.

Per centages of strength of longitudinal joint

rivets 96.4

Working pressure of shell by

rules

228 lb.

Size of manhole in shell

16 in. x 12 in.

Size of compensating ring

31 1/2 x 27 1/2 x 1 1/2 in.

No. and Description of Furnaces in each

boiler 4. Horizontal

Material

Steel

Outside diameter

44 1/4 in.

Length of plain part

top 27.6 in.

Thickness of plates

crown 5 in.

bottom 8 in.

Description of longitudinal joint

Weld.

No. of strengthening rings

None.

Working pressure of furnace by the rules

228 lb.

plates: Material

Steel

Thickness: Sides

5 in.

Back

5 in.

Top

16 in.

Bottom

16 in.

Top 10 1/2 x 6 in. If stays are fitted with nuts or riveted heads

Nuts.

Working pressure by rules

210 lb.

Material of stays

Steel

smallest part

1 1/2 in.

Area supported by each stay

63 sq. in.

Working pressure by rules

224 lb.

End plates in steam space: Material

Steel

Pitch of stays

18 in. x 14 in.

How are stays secured

Double and

Working pressure by rules

208 lb.

Material of stays

Steel

Area supported by each stay

306 sq. in.

Working pressure by rules

244 lb.

Material of Front plates at bottom

Steel

Thickness

8 in.

Lower back plate

Steel

Thickness

8 in.

Greatest pitch of stays

12 1/2 in.

Working pressure of plate by rules

208 lb.

Pitch of tubes

4 1/2 in. x 4 1/2 in.

Material of tube plates

Steel

Thickness: Front

8 in. with 7 in. Back

8 in.

Mean pitch of stay

8 in.

water spaces

13 3/4 in.

Working pressures by rules

282 lb.

354 lb.

Girders to Chamber tops

Material

Steel

Depth and thickness of

girder at centre

11 1/2 in. x 1 5/8 in.

Length as per rule

37 1/2 in.

Distance apart

10 1/2 in.

Number and pitch of Stays in each

4: 6 in.

Working pressure by rules

210 lb.

Superheater or Steam chest: how connected to boiler

None.

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

The foregoing is a correct description,

Rankin & Macdonald

Manufacturer.

Dates

During progress of

of Survey

work in shops - -

while

During erection on

building

board vessel - - -

See accompanying report

Is the approved plan of boiler forwarded herewith

Total No. of visits

90

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

This main Boiler has been built under Special Survey and the materials and workmanship are good. For recommendations, see preceding sheet.

Survey Fee

...

£

:

:

When applied for,

19

Travelling Expenses (if any) £

:

:

When received,

19

Wm. Austin

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

Committee's Minute

GLASGOW

19 APR 1910

Assigned

See minute on

machinery report.

805



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