

REPORT ON BOILERS

No. 11023

SAT. 7 MAY, 1921

Received at London Office

Date of writing Report

19

When handed in at Local Office

3.5.21

Port of

Huddersburgh

No. in Reg. Book.

Survey held at

Stockton-on-Tees

Date, First Survey

2nd February

Last Survey

29th April 1921

on the

S.S. "Glen Mary"

(Number of Visits 12)

Gross Tons

Net Tons

Master

Built at

St. Yarmouth

By whom built

Grathie & Co

When built

1921

Engines made at

St. Yarmouth

By whom made

Thos. Grathie & Co

When made

1921

Boilers made at

Stockton

By whom made

Thos. Riley Bros. Ltd. (No. 5309)

When made

1921

Registered Horse Power

Owners

Holton Bros. Bolton & Co. Ltd.

Port belonging to

Liverpool

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel Thos. J. Spencer & Sons

(Letter for record (5))

Total Heating Surface of Boilers

1540 sq ft

Is forced draft fitted

No. and Description of

Boilers

One single ended

Working Pressure

180

Tested by hydraulic pressure to

320

Date of test

29.4.21

No. of Certificate

6224

Can each boiler be worked separately

Area of fire grate in each boiler

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

Mean dia. of boilers

13'-0"

Length

10'-1 1/8"

Material of shell plates

steel

Thickness

1 1/2"

Range of tensile strength

28-32

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

2-R. lap

long. seams

2-B-3 Riv.

Diameter of rivet holes in long. seams

1 3/8"

Pitch of rivets

8 1/2"

Lap of plates or width of butt straps

17 1/2" x 15"

Per centages of strength of longitudinal joint

91.6

Working pressure of shell by

rules

182

Size of manhole in shell

19" x 15"

Size of compensating ring

8 x 15 in. coil

No. and Description of Furnaces in each

boiler

3 plain

Material

steel

Outside diameter

39"

Length of plain part

top 73 1/2"

bottom 103 1/2"

Thickness of plates

crown 1 3/8"

bottom 7/8" mean

Description of longitudinal joint

weld

No. of strengthening rings

none

Working pressure of furnace by the rules

204

Combustion chamber

plates: Material

steel

Thickness: Sides

2 1/2"

Back

3/8"

Top

2 1/2"

Bottom

15"

Pitch of stays to ditto: Sides

9 x 9"

Back

8 x 8 1/2"

Top 9 x 9"

If stays are fitted with nuts or riveted heads

none

Working pressure by rules

183

Material of stays

steel

Area at

smallest part

1.73

Area supported by each stay

72

Working pressure by rules

192

End plates in steam space: Material

steel

Thickness

1 1/8"

Pitch of stays

18 x 17 1/2"

How are stays secured

nuts 7 x 5/8"

Working pressure by rules

235

Material of stays

steel

Area at smallest part

5.56

Area supported by each stay

306

Working pressure by rules

189

Material of Front plates at bottom

steel

Thickness

1"

Material of

Lower back plate

steel

Thickness

7/8"

Greatest pitch of stays

14 x 8 1/2"

Working pressure of plate by rules

197

Diameter of tubes

3 1/4"

Pitch of tubes

4 1/2 x 4 1/2"

Material of tube plates

steel

Thickness: Front

1"

Back

7/8"

Mean pitch of stays

10 1/2"

Pitch across wide

water spaces

14"

Working pressures by rules

183

Girders to Chamber tops: Material

steel

Depth and thickness of

girder at centre

8 x 15"

Length as per rule

30"

Distance apart

9"

Number and pitch of Stays in each

209"

Working pressure by rules

180

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

UPERHEATER. 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

FOR The foregoing is a correct description, RILEY BROS. (BOILERMAKERS) LIMITED.

Manufacturer.

Dates of Survey

During progress of work in shops - -

1921.

Feb. 2. 14. 18. 28. Dec. 8. 14. Apr. 5. 8. 11. 20. 27. 29.

Is the approved plan of boiler forwarded herewith

yes

while building

During erection on board vessel - - -

Total No. of visits

12

GENERAL REMARKS

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

This boiler has been built under

special survey: is of good material and workmanship and on completion was tested by hydraulic pressure with satisfactory results.

Survey Fee

£ 10-5-0

When applied for

Monthly

Travelling Expenses (if any) £

✓

When received,

19

Committee's Minute

FRI. 22 SEP. 1921

Assigned

Wm Morrison

Engineer Surveyor to Lloyd's Register of Shipping.

