

REPORT ON BOILERS.

No. 32675

Hull 213381

Received at London Office

WED. 22 JUN. 1921

Date of writing Report

19

When handed in at Local Office

21/6 1921 Port of

Hull.

No. in Survey held at

Hull.

Date, First Survey

19. 11. 20

Last Survey

17. 6. 19 21.

Reg. Book.

(Number of Visits

28

Gross 581.32

Net 252.32

Master

Built at

Goole

By whom built

Goole S.B. & R. Co. Ltd.

When built

1922.

Engines made at

Cottbridge

By whom made

W. Beardmore & Co. Ltd.

When made

1922

Boilers made at

Hull

By whom made

Charles & Holmes Ltd.

When made

1922.

Registered Horse Power

Owners

J. Roe

Port belonging to

Sunderland.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

Wm Beardmore & Co. Ltd.

(Letter for record

S

Total Heating Surface of Boilers

15304

Is forced draft fitted

no.

No. and Description of

Boilers

One cyl multi S.E.

Working Pressure

180 lbs.

Tested by hydraulic pressure to

360 lbs.

Date of test

17/6/21.

No. of Certificate

3486.

Can each boiler be worked separately

✓

Area of fire grate in each boiler

47.5 sq

No. and Description of

safety valves to each boiler

2 spring loaded

Area of each valve

5.93 sq

Pressure to which they are adjusted

180 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 or woodwork

9"

Mean dia. of boilers

15 9/16"

Length

10'-8"

Material of shell plates

Steel

Thickness

1 3/8"

Range of tensile strength

28-32

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

D.R.L.

long. seams

T.R. D.B.S.

Diameter of rivet holes in long. seams

1 1/8"

Pitch of rivets

6 1/8"

Lap of plates or width of butt straps

15 3/8"

Per centages of strength of longitudinal joint

rivets 87.8%

plate 84.5%

Working pressure of shell by

rules

180 lbs.

Size of manhole in shell

16" x 12"

Size of compensating ring

7" x 1 1/2"

No. and Description of Furnaces in each

boiler

Three plain.

Material

Steel

Outside diameter

39 1/2"

Length of plain part

top 80"

Thickness of plates

crown 3 3/4"

bottom 3 1/2"

Description of longitudinal joint

Welded.

No. of strengthening rings

✓

Working pressure of furnace by the rules

183

Combustion chamber

plates: Material

Steel

Thickness: Sides

4 1/8"

Back

4 1/8"

Top

4 1/8"

Bottom

4 1/8"

Pitch of stays to ditto: Sides

10" x 9"

Back

10" x 8 1/2"

Top

10" x 8"

If stays are fitted with nuts or riveted heads

Nuts.

Working pressure by rules

181

Material of stays

Steel

Area at

smallest part

2.4 sq in

Area supported by each stay

99 sq in

Working pressure by rules

218 lbs.

End plates in steam space: Material

Steel

Thickness

1 1/2"

Pitch of stays

18" x 1 1/2"

How are stays secured

D.N.W.

Working pressure by rules

185 lbs.

Material of stays

Steel

Area at smallest part

6.79

Area supported by each stay

306 sq in

Working pressure by rules

190 lbs.

Material of Front plates at bottom

Steel

Thickness

7/8"

Material of

Lower back plate

Steel

Thickness

3 1/2"

Greatest pitch of stays

14" x 8 1/2"

Working pressure of plate by rules

186

Diameter of tubes

3 1/2"

Pitch of tubes

4 1/8" x 5"

Material of tube plates

Steel

Thickness: Front

7/8" x 5/8"

Back

7/8"

Mean pitch of stays

11.2"

Pitch across wide

water spaces

14" x 8"

Working pressures by rules

222 lbs.

Girders to Chamber tops: Material

Steel

Depth and thickness of

girder at centre

10" x 1 1/2"

Length as per rule

32.47"

Distance apart

10"

Number and pitch of Stays in each

32

Pitch

28"

Working pressure by rules

234 lbs.

Steam dome: description of joint to shell

✓

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

The foregoing is a correct description,

FOR CHARLES D. HOLMES & CO. LTD.

Manufacturer.

Dates

During progress of

1920: - Dec. 19. Dec. 26. Jan. 4. 20. 24. Feb. 14. 17.

of Survey

work in shops - -

24. Mar. 2. 15. Apr. 7. 14. 15. 21. 26. May 3. 6. 10.

while

During erection on

12. 19. 23. June 8. 9. 12. 17.

building

board vessel - - -

Is the approved plan of boiler forwarded herewith

Yes.

Total No. of visits

28.

GENERAL REMARKS

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

This boiler has been built

under special survey, the materials & workmanship are good. On completion the boiler was tested by hydraulic pressure to 360 lbs. & found sound & tight. The boiler has been properly fitted & secured on board the S.S. Brookside, and its safety valves adjusted under steam.

Survey Fee

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...

£ 10-4-0

When applied for,

21/6/1921

Travelling Expenses (if any) £

:

:

:

When received,

31/7/1921

P. Fitzgerald.

Committee's Minute

FRI. 10 NOV. 1922

Assigned

See Hull 2E 33811

Engineer Surveyor to Lloyd's Register of Shipping



Lloyd's Register Foundation

002062-002070-0271