

REPORT ON BOILERS.

Received at London Office

16 SEP 1924

apt. 5a

Date of writing Report

When landed in at Local Office

15 SEP 1924

Port of **SUNDERLAND.**

No. in Survey held

Date, First Survey

16 July 1924

Last Survey 11 Sept. 1924

1924

Reg. Book.

on the **William of Gellone** No 854

(Number of Visits 10)

Gross Tons

Net

Master

By whom built

S/S No. 324

When built

Engines made at

By whom made

When made

Boilers made at **Sunderland**

By whom made

Messrs. G. Clark & Co. (1139 1/2)

When made 1924

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

S. Colville & Co.

Letter for record

5

Total Heating Surface of Boilers

1613 1/2

Is forced draft fitted

No

No. and Description of

Boilers

one single ended

Working Pressure

180 lb

Tested by hydraulic pressure to

320 lb

Date of test 11.9.24

No. of Certificate

3901

Can each boiler be worked separately

Area of fire grate in each boiler

45.2 1/2

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

Ex.

Mean dia. of boilers

13-6

Length 10.0

Material of shell plates

S

Thickness

1 3/32

Range of tensile strength

28-32

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

Lap dk

long. seams

d. 6.5 to 6.75

Diameter of rivet holes in long. seams

1 1/8

Pitch of rivets

8"

Lap of plates or width of butt straps

17 1/8

Per centages of strength of longitudinal joint

rivets

87.5

Working pressure of shell by

rules

181

Size of manhole in shell

12 x 16

Size of compensating ring

1.7 1/2 x 2.3 1/2 x 1 3/32

No. and Description of Furnaces in each

boiler

3 Brighton

Material S

Outside diameter

3-5 1/2

Length of plain part

top

bottom

Thickness of plates

crown

1 1/2

bottom

1 1/2

Description of longitudinal joint

welded

No. of strengthening rings

1

Working pressure of furnace by the rules

187

Combustion chamber

plates: Material

S

Thickness: Sides

23/32

Back

1/16

Top

23/32

Bottom

23/32

Pitch of stays to ditto: Sides

10 1/2 x 9 1/2

Back

9 3/4 x 9 1/4

Top 9 1/2 x 10 1/2 stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

180

Material of stays

S

Area at

smallest part

1 3/4

Area supported by each stay

108 1/4

Working pressure by rules

180

End plates in steam space: Material

S

Thickness

1 3/16

Pitch of stays

21 x 17

How are stays secured

d. u. + w.

Working pressure by rules

180

Material of stays

S

Area at smallest part

2 5/8

Area supported by each stay

314 1/4

Working pressure by rules

188

Material of Front plates at bottom

S

Thickness

13/16

Material of

Lower back plate

S

Thickness

7/8

Greatest pitch of stays

16 x 9 1/4

Working pressure of plate by rules

183

Diameter of tubes

3 1/2

Pitch of tubes

4 3/4 x 4 5/8

Material of tube plates

S

Thickness: Front

13/16

Back

25/32

Mean pitch of stays

10 7/8

Pitch across wide

water spaces

14 3/8 dk

Working pressures by rules

182

Girders to Chamber tops: Material

S

Depth and thickness of

girder at centre

7 1/8 x 13/4

Length as per rule

31"

Distance apart

10 1/2"

Number and pitch of Stays in each

2, 9 1/2

Working pressure by rules

183

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

The foregoing is a correct description,

FOR GEORGE CLARK LIMITED

Georg. S. S. S.

Manufacturers

Dates of Survey

During progress of work in shops - -

1924. July 16. 21. 25. 30. Aug. 8. 12. 19. 26

Is the approved plan of boiler forwarded herewith

Yes

while building

During erection on board vessel - -

Sep. 2. 11

Total No. of visits

10

GENERAL REMARKS

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

This boiler has been built under

special survey, the materials and workmanship are sound and good.

The boiler has been forwarded to South Shields to be fitted in the vessel.

Survey Fee ... £ 10 : 14 :

When applied for, 15 SEP 1924

Travelling Expenses (if any) £ :

When received, 19 SEP 1924

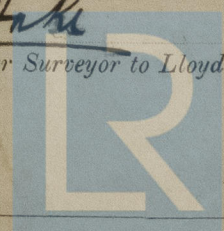
Geo. S. S. S.

Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 14 NOV 1924

Committee's Minute

Assigned



Lloyd's Register Foundation

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