

REPORT ON BOILERS.

No. 18556

Received at London Office

2 JUN 1926

Date of writing Report

26/4/1926

When handed in at Local Office

26/5/1926

Port of Glasgow

No. in Reg. Book.

Survey held at

Glasgow

Date, First Survey 25th September, 1925. Last Survey 24th May, 1926.

1926.

on the

S/S "Vitruvia"

(Number of Visits 53.)

Gross Tons

Net

Master

Built at

Glasgow

By whom built

R. Duncan & Co. (370)

When built 1926

Engines made at

Glasgow

By whom made

Rankin & Blackmore (417)

When made 1926

Boilers made at

ditto

By whom made

ditto

When made 1926

Registered Horse Power

Owners

Voreda Steamship Co. & Co.

Port belonging to Glasgow

MULTITUBULAR BOILERS

DONKEY.

Manufacturers of Steel

Bolton & Stirling Co. of Scotland

Letter for record

S

Total Heating Surface of Boilers

13104

Is forced draft fitted

No

No. and Description of

Boilers

one Single Ended

Working Pressure

120

Tested by hydraulic pressure to

230

Date of test

26.3.26

No. of Certificate

1919

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

38.01

No. and Description of

Safety valves to each boiler

Double Spring

Area of each valve

8.29

Pressure to which they are adjusted

125

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

9

dia. of boilers

12

Length

11

Material of shell plates

S

Thickness

23/32

Range of tensile strength

28/32

Are the shell plates welded or flanged

No

Description of riveting: cir. seams

DR

long. seams

DR.DBS

Diameter of rivet holes in long. seams

15/16

Pitch of rivets

4.96

Width of butt straps

103/8

Per centages of strength of longitudinal joint

89

Working pressure of shell by

rules

122

Size of manhole in shell

16 1/2

Size of compensating ring

2.3

2.4

2.5

2.6

2.7

2.8

2.9

3.0

Boiler

2 plain

Material

S

Outside diameter

3.8 1/2

Length of plain part

36.6 3/8

Thickness of plates

3 1/16

Material of

front plates

at bottom

Description of longitudinal joint

butt

No. of strengthening rings

1

Working pressure of furnace by the rules

133

Combustion chamber

Material

S

Thickness: Sides

1 1/32

Back

1 1/32

Top

1 1/32

Bottom

1 1/32

Pitch of stays to ditto: Sides

8 1/4

Back

8 1/8

Working pressure by rules

122

Material of stays

S

Area at

smallest part

4.3

How are stays secured

DN + W

Working pressure by rules

125

Area supported by each stay

64

Working pressure by rules

158

End plates in steam space: Material

S

Thickness

5 9/16

Area at smallest part

4.3

Material of

front plates

at bottom

Material

Thickness

1 1/16

Material of

lower back plate

Thickness

Greatest pitch of stays

14

Working pressure of plate by rules

145

Diameter of tubes

3 1/4

Pitch across wide

water spaces

14

Working pressures by rules

145

Girders to Chamber tops: Material

S

Depth and thickness of

order at centre

8 1/2 x 5 1/8 (2)

Length as per rule

36

Distance apart

Working pressure by rules

132

Steam dome: description of joint to shell

% 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

PERHEATER. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

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,

RANKIN & BLACKMORE, LTD.,

Director, Manufacturer.

Is the approved plan of boiler forwarded herewith

Yes

Total No. of visits

2

Dates

During progress of

work in shops - -

See Machinery Report

During erection on

board vessel - -

Survey Fee

£ 4 : 4

When applied for, 27th May, 1926

Travelling Expenses (if any) £

When received, 28th May, 1926

Committee's Minute

GLASGOW

1-JUN 1926

Designed

See accompanying machinery

report

W552-0158

Lloyd's Register

Foundation

Engineer Surveyor to Lloyd's Register of Shipping.

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