

## REPORT ON BOILERS

No. 76408  
SAT. 3 FEB. 1923

Received at London Office

Date of writing Report

When handed in at Local Office

2/2/1923 Port of

NEWCASTLE-ON-TYNE

No. in Survey held at

Date, First Survey 11 Aug. 1921

Last Survey 2 Feb. 1923

1923

Reg. Book.

on the

S.S. "BRITISH CAPTAIN"

(Number of Visits — )

Gross

Tons

Net

Master

Built at

Newcastle

By whom built

Palmer &amp; Co. Ltd.

When built 1923.

Engines made at

Newcastle

By whom made

Palmer &amp; Co. Ltd.

When made 1923.

Boilers made at

Newcastle

By whom made

Palmer &amp; Co. Ltd.

When made 1923.

Registered Horse Power

Owners

British Tanker Co. Ltd.

Port belonging to London.

## MULTITUBULAR BOILERS — MAIN, AUXILIARY OR DONKEY. — Manufacturers of Steel

J. Spencer &amp; Co. Ltd.

(Letter for record S. ✓)

Total Heating Surface of Boilers 1102 sq. ft.

Is forced draft fitted No

No. and Description of

Boilers One S.E. CYL. MULT.

Working Pressure 120 lbs.

Tested by hydraulic pressure to 230

Date of test 3/8/22

No. of Certificate 9678

Can each boiler be worked separately ✓

Area of fire grate in each boiler 27 sq. ft.

No. and Description of

safety valves to each boiler Two spring loaded.

Area of each valve 7.068 sq. in.

Pressure to which they are adjusted 125 lbs.

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 on woodwork 1-6"

Mean dia. of boilers 10-6"

Length 10-6"

Material of shell plates Steel

Thickness 5/8"

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 1/8"

Pitch of rivets 4 1/8"

Lap of plates or width of butt straps 10 3/4"

Per centages of strength of longitudinal joint rivets 93.8

plate 88.9

Working pressure of shell by

rules 125 lbs.

Size of manhole in shell 16 x 12

Size of compensating ring 39 x 33 x 5/8"

No. and Description of Furnaces in each

boiler Two Doughton Material Steel

Outside diameter 35 1/2"

Length of plain part top

Thickness of plates crown 3 3/8"

bottom 3 3/8"

Description of longitudinal joint Welded.

No. of strengthening rings —

Working pressure of furnace by the rules 148.8

Combustion chamber

plates: Material Steel

Thickness: Sides 3/2"

Back 3/4"

Top 3/2"

Bottom 3/2"

Pitch of stays to ditto: Sides 10 x 10

Back 10 1/2 x 9 1/2"

Top 10 x 8 1/2" If stays are fitted with nuts or riveted heads

Working pressure by rules 121.5.

Material of stays Steel

Area at

smallest part 1448 sq. in.

Area supported by each stay 117 1/2"

Working pressure by rules 125

End plates in steam space: Material Steel

Thickness 1"

Pitch of stays 24 x 15"

How are stays secured 20 x 1/4"

Working pressure by rules 129

Material of stays Steel

Area at smallest part 4108

Area supported by each stay 360"

Working pressure by rules 123

Material of Front plates at bottom Steel

Thickness 3/4"

Material of

Lower back plate Steel

Thickness 3/4"

Greatest pitch of stays 14 1/4 x 9 1/2"

Working pressure of plate by rules 153

Diameter of tubes 3"

Pitch of tubes 4 1/4"

Material of tube plates Steel

Thickness: Front 9/16"

Back 5/8"

Mean pitch of stays 12 1/4 x 8 1/2"

Pitch across wide

water spaces 14 1/4"

Working pressures by rules 138

Girders to Chamber tops: Material Steel

Depth and thickness of

girder at centre 6 x 1"

Length as per rule 25 7/8"

Distance apart 8 1/2"

Number and pitch of Stays in each Two 20 10"

Working pressure by rules 122.2

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 —

SUPERHEATER. Type None

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,

J. Kemp.

General Manager, Engine Works

Manufacturer.

Is the approved plan of boiler forwarded herewith Sent previously.

Total No. of visits

Dates of Survey

During progress of work in shops —

See machinery Report.

while building

During erection on board vessel —

Survey Fee ...

£ See Machinery Report.

When applied for, 19

Travelling Expenses (if any) £

When received, 19

GENERAL REMARKS

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

This boiler has been built

under special survey &amp; the materials &amp; workmanship are good. On

completion it was tested by hydraulic pressure to 230 lbs. &amp; found

sound &amp; tight. The boiler was efficiently installed in the vessel &amp;

the safety valves adjusted under steam (see machinery report)

Survey Fee ...

£ See Machinery Report.

When applied for, 19

Travelling Expenses (if any) £

When received, 19

Committee's Minute

FRI. 9 FEB. 1923

Assigned

Engineer Surveyor to Lloyd's Register of Shipping.

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Lloyd's Register

Foundation

WH24-080