

REPORT ON BOILERS.

No. 76408

Received at London Office

SAT. 3 FEB. 1923

Date of writing Report

19

When handed in at Local Office

2/2/23 Port of

NEWCASTLE-ON-TYNE

No. in

Survey held at

Jarrow-on-Tyne.

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 & Co. Ltd. S.S. 933

When built 1923.

Engines made at

Newcastle

By whom made

Palmer & Co. Ltd.

When made 1923

Boilers made at

Newcastle

By whom made

Palmer & Co. Ltd.

When made 1923

Registered Horse Power

Owners

British Tankers Ltd.

Port belonging to London.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

J. Palmer & Co. Ltd.

(Letter for record S.)

Total Heating Surface of Boilers

8511 sq ft

Is forced draft fitted

Yes

No. and Description of

Boilers

S.S.E. 4000 h.p.

Working Pressure 200 lbs

Tested by hydraulic pressure to

See below

Date of test

No. of Certificate

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

18 sq ft

No. and Description of

safety valves to each boiler

Two spring loaded

Area of each valve

11 sq in

Pressure to which they are adjusted 205 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

2'-0"

Mean dia. of boilers

16'-9 3/8"

Length 12'-0"

Material of shell plates

Steel

Thickness

1 1/2"

Range of tensile strength

29,330 to 30,000

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 1/2"

Pitch of rivets 10"

Jump of plates or width of butt straps

2 1/2"

Per centages of strength of longitudinal joint

93.4%

Working pressure of shell by

rules 203.

Size of manhole in shell

16" x 12"

Size of compensating ring

47" x 33" x 1 1/2"

No. and Description of Furnaces in each

boiler 4 Deighton

Material

Steel

Outside diameter

41 1/8"

Length of plain part

top

Thickness of plates

crown

3 5/8"

Description of longitudinal joint

Welded

No. of strengthening rings

Working pressure of furnace by the rules

207

Combustion chamber

plates: Material

Steel

Thickness: Sides

3 1/2"

Back

3 1/4"

Top

3 3/4"

Bottom

7/8"

Pitch of stays to ditto: Sides

10 x 8 1/2"

Top 10 x 8 1/2"

If stays are fitted with nuts or riveted heads

Yes on outside row

Working pressure by rules

202

Material of stays

Steel

Area at

smallest part

Area supported by each stay

87.87 sq in

Working pressure by rules

204

End plates in steam space: Material

Steel

Thickness

1 3/8"

Area at smallest part

Pitch of stays

18 x 25"

How are stays secured

D.V.N.W.

Working pressure by rules

211

Material of stays

Steel

Area at smallest part

8.48

Area supported by each stay

Area supported by each stay

450 sq in

Working pressure by rules

210

Material of Front plates at bottom

Steel

Thickness

1 1/8"

Material of

Lower back plate

Steel

Lower back plate

Thickness

7/8"

Greatest pitch of stays

14 1/2 x 8"

Working pressure of plate by rules

234

Diameter of tubes

3"

Pitch of tubes

4 1/2 x 4 1/2"

Material of tube plates

Steel

Thickness: Front

1 1/8"

Back

1 3/8"

Mean pitch of stays

12 1/2 x 8 1/2"

Pitch across wide

water spaces

water spaces

14 1/2"

Working pressures by rules

284

Girders to Chamber tops: Material

Steel

Depth and thickness of

girder at centre

9 x 1 3/4"

Length as per rule

32 7/8"

Distance apart

10"

Working pressure by rules

212

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

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

SUPERHEATER. Type

Robinson

Date of Approval of Plan

25/2/21.

Tested by Hydraulic Pressure to

400 lbs

Date of Test

2/10/22

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Yes

Diameter of Safety Valve

1 1/2"

Pressure to which each is adjusted

212 lbs

Is Easing Gear fitted

Yes

Palmer & Co. Ltd. The foregoing is a correct description,

D. Kemp.

Manufacturer.

Dates

During progress of

of Survey

work in shops - -

while

During erection on

building

board vessel - - -

See Machinery Report.

Is the approved plan of boiler forwarded herewith

Yes

Total No. of visits

GENERAL REMARKS

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

These boilers were built under special survey & the materials & workmanship are good. On completion they were tested by hydraulic pressure to 350 lbs & found sound & tight. They were afterwards officially installed in the vessel & the main boiler & superheater valves operated under steam (see machinery Rpt.).

Survey Fee ...

£ See Mach. Rpt.

When applied for

19

Travelling Expenses (if any) £

reporh.

When received

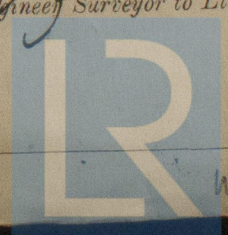
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Committee's Minute

FRI. 9 FEB. 1923

Assigned

Engineer Surveyor to Lloyd's Register of Shipping.



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