

Rpt. 5a.

REPORT ON BOILERS.

No. 28450

Received at London Office

SAT. NOV. 4 1922

Date of writing Report

19

When handed in at Local Office

3 NOV 1922

Port of

Sunderland

No. in Survey held at

Sunderland

Date, First Survey

Last Survey

Nov 2 1922

Reg. Book.

on the

new steel S/S "BRITISH LORD"

(Number of Visits)

Gross

6098

Tons

Net 3561

Master

Built at Sunderland

By whom built

J. Thompson & Son Ltd (S/S N° 547)

When built 1922

Engines made at

Manchester

By whom made

Metropolitan Vickers Ltd (N° 1970-1)

when made 1922

Boilers made at

Sunderland

By whom made

J. Dickinson & Son Ltd (N° 1067)

when made 1920

Registered Horse Power

Owners

British Tankers Co Limited

Port belonging to

London

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR DONKEY.~~

Manufacturers of Steel

John Spencer & Sons Ltd.

(Letter for record)

S

Total Heating Surface of Boilers

8780 ft²

Is forced draft fitted

no

No. and Description of

Boilers

one, single ended marine

Working Pressure

180

Tested by hydraulic pressure to

320

Date of test

4-11-20

No. of Certificate

3730

Can each boiler be worked separately

Area of fire grate in each boiler

28.8 ft²

No. and Description of

safety valves to each boiler

Two, direct spring

Area of each valve

4.90"

Pressure to which they are adjusted

150

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

none near

dia. of boilers

10'-6"

Length

10'-0"

Material of shell plates

steel

Thickness

7/8"

Range of tensile strength

28-32 tons

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

DR

long. seams

WBS. TR

Diameter of rivet holes in long. seams

1"

Pitch of rivets

6 7/8"

Lap of plates or width of butt straps

1'-2 3/4"

Per centages of strength of longitudinal joint

rivets 91"

plate

85.4"

Working pressure of shell by

rules

181

Size of manhole in shell

16" x 12"

Size of compensating ring

8" x 7/8"

No. and Description of Furnaces in each

boiler

two, plain

Material

steel

Outside diameter

36"

Length of plain part

top 7'4"

bottom

19'4"

Thickness of plates

crown 45"

bottom 64"

Description of longitudinal joint

welded

No. of strengthening rings

none

Working pressure of furnace by the rules

183

Combustion chamber

plates: Material

steel

Thickness: Sides

1 1/2"

Back

1 1/2"

Top

1 1/2"

Bottom

1 1/2"

Pitch of stays to ditto: Sides

10" x 9"

Back

10 1/2" x 8 3/8"

Top

9" x 7 1/2"

If stays are fitted with nuts or riveted heads

nuts in use

Working pressure by rules

180

Material of stays

steel

Diameter at

smallest part

2.030"

Area supported by each stay

99.70"

Working pressure by rules

183

End plates in steam space: Material

steel

Thickness

29"

Pitch of stays

15" x 14 3/8"

How are stays secured

W-B-W

Working pressure by rules

180

Material of stays

steel

Diameter at smallest part

4.130"

Area supported by each stay

2160"

Working pressure by rules

199

Material of Front plates at bottom

steel

Thickness

29"

Material of

Lower back plate

steel

Thickness

29"

Pitch of tubes

4 1/2" x 4 1/2"

Material of tube plates

steel

Thickness: Front

29"

Back

13 1/2"

Working pressure of plate by rules

231

Diameter of tubes

3 1/2"

water spaces

4 1/2" x 5 1/8"

Working pressures by rules

262

Girders to Chamber tops: Material

steel

Depth and thickness of

girder at centre

2 @ 5 3/4" x 15"

Length as per rule

26 29/32"

Working pressure by rules

182

Superheater or Steam chest: how connected to boiler

Can the superheater be shut off and the boiler worked

separately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

holes

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

If stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

The foregoing is a correct description,

John Dickinson & Sons, Limited.

Manufacturer.

Dates

During progress of

work in shops - -

while

During erection on

board vessel - -

building

Please see Machinery Report

Is the approved plan of boiler forwarded herewith

yes

Survey Fee

£ 5 : 18

When applied for

3 NOV 1922

Travelling Expenses (if any) £

When received

6 NOV 1922

Total No. of visits

J. C. Davis

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

TUE NOV. 7 1922

Assigned

W1630-0058

Lloyd's Register

Foundation