

REPORT ON BOILERS.

No. 28517.

Received at London Office

MON. FEB. 12 1923

SUNDERLAND.

Date of writing Report

19

When handed in at Local Office

10 FEB 1923 Port of

No. in Survey held at

SUNDERLAND.

Date, First Survey

Last Survey

Feb 5 1923

Reg. Book.

on the new steel S/S "BRITISH LADY."

(Number of Visits

Gross 6098

Tons Net 3520

Master

Built at Sunderland By whom built J.L. Thompson & Son Ltd.

When built 1923

Engines made at

Manchester

By whom made Metropolitan Vickers Electrical Co. Ltd.

When made 1922

Boilers made at

Sunderland

By whom made J. Dickinson & Son Ltd (No. 861)

When made 1923

Registered Horse Power

Owners

British Tankers Co. Ltd.

Port belonging to London

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

(Letter for record

S

Total Heating Surface of Boilers

82650 sq ft

Is forced draft fitted

yes

No. and Description of

Boilers

Three single ended main

Working Pressure 200

Tested by hydraulic pressure to 350

Date of test 6-9-22

No. of Certificate

3809

Can each boiler be worked separately

yes

Area of fire grate in each boiler

oil fired

No. and Description of

safety valves to each boiler

two, dried spring

Area of each valve

9.620"

Pressure to which they are adjusted

205

Are they fitted with easing gear

yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

yes

Smallest distance between boilers or uptakes and bunkers or woodwork

18" (incl. blk)

dia. of boilers

16'-6"

Length

12'-13"

Material of shell plates

steel

Thickness

1 13/32"

Range of tensile strength

28 1/2 - 35 1/2 tons

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

DR

long. seams

DBS. TR

Diameter of rivet holes in long. seams

1 1/2"

Pitch of rivets

10 1/16"

Lap of plates or width of butt straps

1'-9 3/8"

Per centages of strength of longitudinal joint

rivets 95
plate 85

Working pressure of shell by

rules

200

Size of manhole in shell

16" x 12"

Size of compensating ring

9" x 1 13/32"

No. and Description of Furnaces in each

boiler

4 Deighton

Material

steel

Outside diameter

3'-5 3/8"

Length of plain part

top
bottom

Thickness of plates

crown
bottom

9 1/16"

Description of longitudinal joint

welded

No. of strengthening rings

—

Working pressure of furnace by the rules

211

Combustion chamber

plates: Material

steel

Thickness: Sides

3/4"

Back

1 1/16"

Top

3/4"

Bottom

3/4"

Pitch of stays to ditto: Sides

11 1/4" x 8 3/8"

Back

9 1/2" x 8"

Top 10 3/4" x 8"

If stays are fitted with nuts or riveted heads

nuts in case

Working pressure by rules

202

Material of stays

steel

Area at

smallest part

1'-7 3/8"

Area supported by each stay

760"

Working pressure by rules

200

End plates in steam space: Material

steel

Thickness

1 1/4"

Pitch of stays

20 1/2" x 17"

How are stays secured

DN & W

Working pressure by rules

200

Material of stays

steel

Area at smallest part

6070"

Area supported by each stay

3490"

Working pressure by rules

211

Material of Front plates at bottom

steel

Thickness

1 1/16"

Material of

Lower back plate

steel

Thickness

3/32"

Greatest pitch of stays

13 1/4" x 9 1/2"

Working pressure of plate by rules

202

Diameter of tubes

3 1/4"

Pitch of tubes

4 1/2" x 4 1/2"

Material of tube plates

steel

Thickness: Front

1 1/16"

Back

7/8"

Mean pitch of stays

9"

Pitch across wide

water spaces

girders to Chamber tops: Material

steel

Depth and thickness of

girders at centre

20 7 1/8" x 1"

Length as per rule

33"

Distance apart

8"

Number and pitch of Stays in each

20 @ 10 3/4"

Working pressure by rules

204

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

Schmidt

Date of Approval of Plan

6-9-21 (submitted from Mch)

Tested by Hydraulic Pressure to

600 lb/sq in

Date of Test

13 & 16 - 12-21

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

208

Is Easing Gear fitted

yes

The foregoing is a correct description,
for the use of the Register, of the
boiler and superheater described above,
as shown to the Surveyor.

Dates

During progress of

Please see Machinery report

Is the approved plan of boiler forwarded herewith

yes

while

During erection on

board vessel

Total No. of visits

GENERAL REMARKS

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

The materials and workmanship are good.

The boilers have been constructed under special survey, satisfactorily fitted in the vessel and their safety valves adjusted under steam.

Survey Fee

£

When applied for,

19

Travelling Expenses (if any)

£

When received,

19

Committee's Minute

TUE. 13 FEB. 1923

Assigned

S.D. Davis

Engineer Surveyor to Lloyd's Register of Shipping.

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Lloyd's Register
Foundation

W306-0120