

## REPORT ON BOILERS.

No. 28421

Received at London Office

MUN. SEP. 25 1922

Date of writing Report

19

When handed in at Local Office

23 SEP 1922

Port of

SUNDERLAND.

SUNDERLAND.

No. in Survey held at  
Reg. Book.

Date, First Survey

Last Survey

14 Sept 1922

on the *SS. 'BRITISH ADVOCATE'*

(Number of Visits

Gross

6993

Tons

Net

4151

Master

Built at *Sunderland*By whom built *Lie Jas Laing & Sons Ltd (683)*When built *1922*Engines made at *Sunderland*By whom made *Miss G. Clark Ltd (1125)*When made *1922*Boilers made at *Sunderland*By whom made *Miss G. Clark Ltd (1125½)*When made *1922*

Registered Horse Power

Owners *British Tanker Co. Ltd*Port belonging to *London*MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR DONKEY.~~—Manufacturers of Steel *Sydney & Sons*

(Letter for record

*S*)Total Heating Surface of Boilers *974 50*Is forced draft fitted *No*

No. and Description of

Boilers *one single ended*Working Pressure *120 lb*Tested by hydraulic pressure to *230 lb*Date of test *9.3.22*No. of Certificate *3796*Can each boiler be worked separately *✓*Area of fire grate in each boiler *oil fuel only*

No. and Description of

safety valves to each boiler *2 spring valves*Area of each valve *5.41 0"*Pressure to which they are adjusted *125 lb*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 *no bunkers in way, 1 ft*Mean dia. of boilers *10.4 5"*Length *10-6*Material of shell plates *S*Thickness *1/2"*Range of tensile strength *28-32*Are the shell plates welded or flanged *No*Descrip. of riveting: cir. seams *lap all*long. seams *1 1/2" x 1 1/2" riv*Diameter of rivet holes in long. seams *15/16"*Pitch of rivets *3 1/2"*Lap of plates or width of butt straps *9 1/2"*Per centages of strength of longitudinal joint *81*

Working pressure of shell by

rules *123*Size of manhole in shell *12 x 16*Size of compensating ring *8 1/2 x 7/8"*

No. and Description of Furnaces in each

boiler *2 Dugthm*Material *S*Outside diameter *35"*Length of plain part *top*Thickness of plates *crown*Description of longitudinal joint *welded*No. of strengthening rings *5*Working pressure of furnace by the rules *149*

Combustion chamber

plates: Material *S*Thickness: Sides *5/8"*Back *5/8"*Top *5/8"*Bottom *5/8"*Pitch of stays to ditto: Sides *10 3/4 x 9*Back *8 3/4 x 8 1/2*Top *8 3/4 x 12* If stays are fitted with nuts or riveted heads *nuts*Working pressure by rules *121*Material of stays *S*

Area at

smallest part *1.73 0"*Area supported by each stay *96 3/4*Working pressure by rules *157*End plates in steam space: Material *S*Thickness *1 3/2"*Pitch of stays *20 x 24 1/2"*How are stays secured *d.n.r.w.*Working pressure by rules *124*Material of stays *S*Area at smallest part *4.9 0"*Area supported by each stay *490 0"*Working pressure by rules *131*Material of Front plates at bottom *S*Thickness *1 3/2"*Lower back plate *S*Thickness *1 3/2"*Greatest pitch of stays *14 1/2"*Working pressure of plate by rules *240*Diameter of tubes *3"*Pitch of tubes *4 5/8 x 4 1/4"*Material of tube plates *S*Thickness: Front *1 3/2"*Back *1 1/2"*Mean pitch of stays *10 1/2"*

Pitch across wide

water spaces *14"*Working pressures by rules *228*Girders to Chamber tops: Material *S*

Depth and thickness of

girder at centre *6 5/8 x 1 3/4"*Length as per rule *27 1/2"*Distance apart *12"*Number and pitch of Stays in each *2, 8 3/4"*Working pressure by rules *125*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

SUPERHEATER. Type *✓*

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,

FOR GEORGE CLARK LIMITED *W. B. Spruce*

Manufacturer.

Dates of Survey  
During progress of work in shops - -  
while building  
During erection on board vessel - - -

Is the approved plan of boiler forwarded herewith

Total No. of visits

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

*The donkey boiler for this vessel has been built under special survey. The materials and workmanship are sound and good and the boiler has been fitted and fixed in the vessel in a satisfactory manner*Survey Fee ... £ *6 : 10* :When applied for, *19*

Travelling Expenses (if any) £ :

When received, *6.10.22*

TUE. 26 SEP. 1922

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

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