

## REPORT ON BOILERS.

No. 28517

Received at London Office MON. FEB. 12 1923

Date of writing Report 19 When handed in at Local Office 10 FEB 1923 Port of Sunderland

No. in Survey held at Sunderland Date, First Survey Last Survey Feb 5 1923

Reg. Book. on the new steel "BRITISH LADY" (Number of Visits) Gross 6098 Tons Net 3520

Master Built at Sunderland By whom built J. L. Thompson & Son Ltd (45th St) 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. 1068) when made 1920

Registered Horse Power Owners British Tankers Co Ltd Port belonging to London

## MULTITUBULAR BOILERS — MAIN, AUXILIARY OR DONKEY. — Manufacturers of Steel John Spencer &amp; Sons Ltd.

(Letter for record S) Total Heating Surface of Boilers 8780 sq ft As forced draft fitted 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 3731 Can each boiler be worked separately Area of fire grate in each boiler 28.8 sq ft No. and Description of

safety valves to each boiler Two, direct spring Area of each valve 4.90" Pressure to which they are adjusted

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 Main dia. of boilers 10'-6" Length 10'-0"

Material of shell plates steel Thickness  $\frac{7}{8}$ " Range of tensile strength 28-32 tons Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams WR long. seams DBS. TR Diameter of rivet holes in long. seams 1" Pitch of rivets  $6\frac{7}{8}$ "

Lap of plates or width of butt straps 1'-2 $\frac{3}{4}$ " 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  $\frac{7}{8}$ " No. and Description of Furnaces in each

boiler two, plain Material steel Outside diameter 36" Length of plain part top 74" 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  $\frac{11}{16}$ " Back  $\frac{11}{16}$ " Top  $\frac{11}{16}$ " Bottom  $\frac{15}{16}$ " Pitch of stays to ditto: Sides 10" x 9" Back 10 $\frac{1}{2}$ " x 8 $\frac{3}{8}$ "

Top 9" x 7 $\frac{1}{2}$ " If stays are fitted with nuts or riveted heads nuts in caps 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  $\frac{29}{32}$ "

Pitch of stays 15" x 14 $\frac{3}{8}$ " How are stays secured DN&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  $\frac{29}{32}$ " Material of

Lower back plate steel Thickness  $\frac{29}{32}$ " Greatest pitch of stays 13 $\frac{1}{4}$ " x 8 $\frac{3}{8}$ " Working pressure of plate by rules 231 Diameter of tubes 3 $\frac{1}{4}$ "

Pitch of tubes 4 $\frac{1}{2}$ " x 4 $\frac{1}{2}$ " Material of tube plates steel Thickness: Front  $\frac{29}{32}$ " Back  $\frac{13}{16}$ " Mean pitch of stays 9" Pitch across wide

water spaces 14 $\frac{1}{4}$ " +  $\frac{5}{8}$ " DP Working pressures by rules 262 Girders to Chamber tops: Material steel Depth and thickness of

girder at centre 2 @ 5 $\frac{1}{4}$ " x 15" Length as per rule 26 $\frac{29}{32}$ " Distance apart 7 $\frac{1}{2}$ " Number and pitch of Stays in each 2 @ 9"

Working pressure by rules 182 Superheater or Steam chest: how connected to boiler none 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.  
Adrian... Manufacturer.

Dates of Survey During progress of work in shops - - - Please see Machinery report Is the approved plan of boiler forwarded herewith Yes ✓  
while building During erection on board vessel - - - Total No. of visits

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

The materials and workmanship are good.  
The boiler has been constructed under special survey.  
The boiler has been satisfactorily fitted in the vessel and its safety valves adjusted under steam.

Survey Fee £ 5-10-0 When applied for 19  
Charged on Machinery report When received 19  
Travelling Expenses (if any) £

Committee's Minute

Assigned

TUE. 13 FEB. 1923

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

W306-0121

Lloyd's Register  
Foundation