

REPORT ON BOILERS.

No. 28108

THU. 14 JUL. 1921

Received at London Office

Date of writing Report 19 When handed in at Local Office 12/7/1921. Port of **SUNDERLAND**

No. in Survey held at **SUNDERLAND** Date, First Survey 4th June, 1920. Last Survey 8th July, 1921.

Reg. Book. on the **S/S "BRITISH COLONEL"** (Number of Visits 74.) Gross 7038 Tons Net 4540

Master Built at **Sunderland** By whom built **Sir Jas Laing & Sons (626)** When built 1921

Engines made at **Sunderland** By whom made **Messrs G. Clark & Co (1117)** When made 1921

Boilers made at **Sunderland** By whom made **Messrs G. Clark & Co (1117)** When made 1921

Registered Horse Power Owners **British Tanker Co. Ltd.** Port belonging to **London.**

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel **Spencer & Sons**

(Letter for record **S**) Total Heating Surface of Boilers **798** Is forced draft fitted **No** No. and Description of Boilers **One single end** Working Pressure **120 lbs** Tested by hydraulic pressure to **240 lbs** Date of test **21.12.20**

No. of Certificate **3744** Can each boiler be worked separately **✓** Area of fire grate in each boiler **oil fuel only** and Description of safety valves to each boiler **Two Spring Valves** Area of each valve **4.43** Pressure to which they are adjusted **124 lbs**

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** Mean dia. of boilers **10-0** Length **10-0**

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** long. seams **at 15° at 110°** Diameter of rivet holes in long. seams **1 1/8** Pitch of rivets **3 1/2**

Lap of plates or width of butt straps **9 1/2** Per centages of strength of longitudinal joint rivets **77** Working pressure of shell by rules **126** Size of manhole in shell **12 x 16** Size of compensating ring **8 1/2 x 1/2 flanged**

No. and Description of Furnaces in each boiler 2 Dighton Material **S** Outside diameter **37** Length of plain part top **—** bottom **—** Thickness of plates crown **3/8** bottom **3/8**

Description of longitudinal joint **weld** No. of strengthening rings **—** Working pressure of furnace by the rules **136** Combustion chamber plates: Material **S** Thickness: Sides **5/8** Back **5/8** Top **5/8** Bottom **5/8** Pitch of stays to ditto: Sides **9 x 10 1/2** Back **9 1/2 x 8 1/2**

Top **9 x 10 1/2** If stays are fitted with nuts or riveted heads **Nuts** Working pressure by rules **124** Material of stays **S** Area at smallest part **1.44** Area supported by each stay **80.75** Working pressure by rules **142** End plates in steam space: Material **S** Thickness **1 1/2**

Pitch of stays **19 x 21 1/2** How are stays secured **d.n. + 4** Working pressure by rules **122** Material of stays **S** Area at smallest part **2.53**

Area supported by each stay **361** Working pressure by rules **127** Material of Front plates at bottom **S** Thickness **1 1/2** Material of Lower back plate **S** Thickness **1 1/2** Greatest pitch of stays **14 1/2** Working pressure of plate by rules **260** Diameter of tubes **3**

Pitch of tubes **4 1/2 x 4 1/2** Material of tube plates **S** Thickness: Front **1 1/2** Back **1 1/2** Mean pitch of stays **12 1/2 x 8 1/2** Pitch across wide water spaces **14** Working pressures by rules **206** Girders to Chamber tops: Material **S** Depth and thickness of girder at centre **6 x 1 1/2** Length as per rule **25 1/2** Distance apart **10 3/4** Number and pitch of Stays in each **2, 9"**

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. G. Clark

Manufacturer.

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

See accompanying report.

Is the approved plan of boiler forwarded herewith **Yes**Total No. of visits **74.**

GENERAL REMARKS (State quality of workmanship, opinions as to class, &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 finished in the vessel in a satisfactory manner.

Survey Fee ... £ 4 : 4 : } When applied for, 12/7/1921
Travelling Expenses (if any) £ : : } When received, 30/8/1921

Committee's Minute

FRI. 22 JUL. 1921

Assigned

See minute on machinery report

W. G. Clark
Engineer Surveyor to Lloyd's Register of Shipping.

111630-0130

Lloyd's Register
Foundation