

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. 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 1/2) When made 1921
Registered Horse Power Owners British Tanker Co. Port belonging to London.

MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY. - Manufacturers of Steel Spinner & Sons

(Letter for record S) Total Heating Surface of Boilers 798 sq ft Is forced draft fitted No. and Description of Boilers One single Gudge 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 sq in 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. OIL FIRED Mean dia. of boilers 10-0 Length 10-0

Material of shell plates S Thickness 5/8 Range of tensile strength 28-32 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams Lap d. long. seams d. 1/2 d. 1/4 Diameter of rivet holes in long. seams 15/16 Pitch of rivets 3 3/8

Lap of plates or width of butt straps 9 1/2 Per centages of strength of longitudinal joint rivets 77 plate 76 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 5/8

Description of longitudinal joint welded 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 3/4 Back 9 1/2 x 8 1/2

Top 9 x 10 3/4 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 sq in Area supported by each stay 80.75 sq in Working pressure by rules 142 End plates in steam space: Material S Thickness 1 1/2

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

Area supported by each stay 361 sq in 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 1/4 Material of tube plates S Thickness: Front 1 1/2 Back 1 1/2 Mean pitch of stays 12 3/4 x 8 1/4 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. A. Clark Manufacturer.

Dates of Survey } During progress of work in shops - - } Is the approved plan of boiler forwarded herewith Yes
while building } During erection on board vessel - - - }
See accompanying report. 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 Engineer Surveyor to Lloyd's Register of Shipping.

Assigned See minute on machinery report



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