

REPORT ON BOILERS

No. 76408
SAT. 3 FEB. 1923

Received at London Office
NEWCASTLE-ON-TYNE

Date of writing Report 2/2/1923 When handed in at Local Office 2/2/1923 Port of NEWCASTLE-ON-TYNE

No. in Survey held at JANUARY. 1921 Date, First Survey 11th Aug. 1921 Last Survey 2nd Feb. 1923

Reg. Book. on the S.S. "BRITISH CAPTAIN" (Number of Visits -) Gross Tons Net

Master Built at Newcastle By whom built Palmes to Ltd When built 1923.

Engines made at Newcastle By whom made Palmes to Ltd. When made 1923.

Boilers made at Newcastle By whom made Palmes to Ltd. When made 1923.

Registered Horse Power Owners British Tanker to Ltd. Port belonging to LONDON.

MULTITUBULAR BOILERS MAIN, AUXILIARY OR DONKEY. — Manufacturers of Steel J. Spencer & Co. Ltd.

(Letter for record S. ✓) Total Heating Surface of Boilers 1102 sq ft ✓ Is forced draft fitted No ✓ No. and Description of Boilers One S.E. CYL MULT. Working Pressure 120 lbs ✓ Tested by hydraulic pressure to 230 ✓ Date of test 3/8/22

No. of Certificate 9678 Can each boiler be worked separately ✓ Area of fire grate in each boiler 27 sq ft ✓ No. and Description of safety valves to each boiler Two spring loaded. Area of each valve 7.068 sq in ✓ Pressure to which they are adjusted 125 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 on woodwork 1-6 ✓ Mean dia. of boilers 10-6 ✓ Length 10-6 ✓

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

Descrip. of riveting: cir. seams D.R.L. long. seams T.R.D.S.S. Diameter of rivet holes in long. seams 7/16 ✓ Pitch of rivets 4 7/8 ✓

Lap of plates or width of butt straps 10 3/16 ✓ Per centages of strength of longitudinal joint rivets 93.8 ✓ Working pressure of shell by rules 125 lbs ✓ Size of manhole in shell 16 x 12 ✓ Size of compensating ring 39 x 33 x 5/8 ✓ No. and Description of Furnaces in each boiler Two Diameter Material Steel Outside diameter 35 1/2 ✓ Length of plain part top ✓ Thickness of plates crown 3 3/8 ✓ bottom ✓

Description of longitudinal joint Welded. No. of strengthening rings - Working pressure of furnace by the rules 1488 ✓ Combustion chamber plates: Material Steel Thickness: Sides 3/32 ✓ Back 3/4 ✓ Top 3/32 ✓ Bottom 3/32 ✓ Pitch of stays to ditto: Sides 10 x 10 ✓ Back 10 1/2 x 9 1/2 ✓

Top 10 x 8 1/2 ✓ If stays are fitted with nuts or riveted heads YES ON OUTSIDE ROW. Working pressure by rules 121.5. Material of stays Steel Area at smallest part 1488 ✓ Area supported by each stay 1007 ✓ Working pressure by rules 125 ✓ End plates in steam space: Material Steel Thickness 1 ✓

Pitch of stays 24 x 15 ✓ How are stays secured BY W. Working pressure by rules 129 ✓ Material of stays Steel Area at smallest part 4.108 ✓

Area supported by each stay 360 ✓ Working pressure by rules 123 ✓ Material of Front plates at bottom Steel Thickness 3/4 ✓ Material of Lower back plate Steel Thickness 3/4 ✓ Greatest pitch of stays 14 1/4 x 9 1/2 ✓ Working pressure of plate by rules 155 ✓ Diameter of tubes 3 ✓

Pitch of tubes 4 1/4 ✓ Material of tube plates Steel Thickness: Front 9/16 ✓ Back 5/8 ✓ Mean pitch of stays 12 1/2 x 8 1/2 ✓ Pitch across wide water spaces 14 1/4 ✓ Working pressures by rules 138 ✓ Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 6 x 1 ✓ Length as per rule 25 7/8 ✓ Distance apart 8 1/2 ✓ Number and pitch of Stays in each Two @ 10 ✓

Working pressure by rules 122.2 ✓ Steam dome: description of joint 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 None 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 -

Palmes Shipbuilding & Iron Co. Ltd.
The foregoing is a correct description,
D. Kemp. Manufacturer.
General Manager, Engine Works

Dates of Survey During progress of work in shops - - See machinery Report ✓
while building During erection on board vessel - - -

Is the approved plan of boiler forwarded herewith Sent previously ✓

Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey & the materials & workmanship are good. On completion it was tested by hydraulic pressure to 230 lbs & found sound & tight. The boiler was efficiently installed in the vessel & the safety valves adjusted under steam (see machinery report)

Survey Fee ... £ See Machinery report ✓ When applied for, 19

Travelling Expenses (if any) £ When received, 19

J. Harbottle.
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 9 FEB. 1923

Assigned

If not, state whether, and when, one will be sent

Is a Report also sent on the hull of the ship?

Yes.

