

REPORT ON BOILERS.

Malt No. 5044

Sta No. 23305

SAT. 15 JUN 1907

Received at London Office

Date of writing Report June 5th 1907 When handed in at Local Office 5th June 1907 Port of MIDDLESBROUGH-ON-TEESNo. in Survey held at StocktonDate, First Survey 21st January Last Survey 31st May 1907

Reg. Book.

(Number of Visits 12)Gross 4205.70Net 5114.43on the Donkey Boiler of S/S "Kossuth Terence"Master Dobrovich Built at Amsterdam By whom built J. J. Thompson & Son When built 1907Engines made at Stockton By whom made Polain & Co. Ltd when made 1907Boilers made at Stockton By whom made Polain & Co. Ltd when made 1907Registered Horse Power Owners Atlantica Sea Navigation Ltd Port belonging to FiumeMULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR~~ DONKEY. — Manufacturers of Steel John Spencer & Son Ltd(Letter for record S) Total Heating Surface of Boilers 1373 sq ft Is forced draft fitted No No. and Description ofBoilers One. Cyl Tubular Working Pressure 120 lb Tested by hydraulic pressure to 240 lb Date of test 18-4-07No. of Certificate 3897 Can each boiler be worked separately — Area of fire grate in each boiler 33 $\frac{1}{2}$ sq ft No. and Description ofsafety valves to each boiler Two spring Area of each valve 5.9 sq in Pressure to which they are adjusted 120 lbAre they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler NoSmallest distance between boilers or uptakes and bunkers or woodwork 24" Steam dia. of boilers 12-6" Length 10-0"Material of shell plates Steel Thickness $\frac{3}{4}$ " Range of tensile strength 29/32 Are the shell plates welded or flanged NoDescrip. of riveting: cir. seams L D Riv long. seams D Point Shape Diameter of rivet holes in long. seams $\frac{7}{8}$ " Pitch of rivets Within row $6\frac{3}{4}$ "Lap of plates or width of butt straps 1-1 $\frac{7}{8}$ " Per centages of strength of longitudinal joint rivets 88.4 Working pressure of shell byrules 122 lb Size of manhole in shell 16" x 12" Size of compensating ring 30" x 26" x $\frac{3}{4}$ " No. and Description of Furnaces in eachboiler 2 plain Material Steel Outside diameter 3'-5" Length of plain part top 6'-8" Thickness of plates crown $9\frac{1}{16}$ "Description of longitudinal joint Welded No. of strengthening rings — Working pressure of furnace by the rules 131 lb Combustion chamberplates: Material Steel Thickness: Sides $9\frac{1}{16}$ " Back $9\frac{1}{16}$ " Top $9\frac{1}{16}$ " Bottom 1 $\frac{1}{4}$ " Pitch of stays to ditto: Sides $9\frac{3}{4}$ " x $9\frac{3}{4}$ " Back $9\frac{3}{4}$ " x $9\frac{3}{4}$ "Top $9\frac{3}{4}$ " x $9\frac{3}{4}$ " If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 128 lb Material of stays Steel Diameter atsmallest part 1 $\frac{7}{16}$ " Area supported by each stay 95 sq in Working pressure by rules 136 lb End plates in steam space: Material Steel Thickness 15 $\frac{1}{16}$ "Pitch of stays 20" x 14 $\frac{1}{2}$ " How are stays secured 2 x 10 Working pressure by rules 123 lb Material of stays Steel Diameter at smallest part 2 $\frac{3}{8}$ "Area supported by each stay 330 sq in Working pressure by rules 134 lb Material of Front plates at bottom Steel Thickness 1" Material ofLower back plate Steel Thickness 15 $\frac{1}{16}$ " Greatest pitch of stays 19 $\frac{1}{2}$ " x $9\frac{3}{4}$ " Working pressure of plate by rules 127 lb Diameter of tubes 3 $\frac{1}{4}$ "Pitch of tubes 4 $\frac{1}{2}$ " x 4 $\frac{5}{8}$ " Material of tube plates Steel Thickness: Front 1" Back 13 $\frac{1}{16}$ " Mean pitch of stays 12 $\frac{3}{4}$ " Pitch across widewater spaces 14 $\frac{1}{4}$ " Working pressures by rules 145 lb Girders to Chamber tops: Material Steel Depth and thickness ofgirder at centre 6 $\frac{3}{4}$ " x 1 $\frac{1}{4}$ " Length as per rule 26 $\frac{1}{2}$ " Distance apart 9 $\frac{3}{4}$ " Number and pitch of Stays in each Two 9 $\frac{3}{4}$ "Working pressure by rules 130 lb 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,

Geo. Hettleship

Manufacturer.

ASSISTANT SECRETARY.

Dates of Survey: During progress of 1907 Jan 21-31 Feb 18 March 18-25 Is the approved plan of boiler forwarded herewith No. Polain'swhile building: During erection on board vessel Apr 10-16-18 May 28-29-30-31 Total No. of visits 12

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

This boiler has been constructed under special survey. The materials and workmanship are good & efficient and when tested under steam was found satisfactory.

Survey Fee ... £ 200 : 2 : 0 When applied for, 200 : 5 : 1907Travelling Expenses (if any) £ : : When received, 25 : 6 : 1907Geo. A. Milner
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

Assigned

Lloyd's Register
Foundation
W1258-0058