

# REPORT ON BOILERS.

No. 6430

Received at London Office

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Date of writing Report 2<sup>nd</sup> March 08 When handed in at Local Office 10 Port of Belfast  
 No. in Survey held at Belfast Date, First Survey 28<sup>th</sup> Aug 1907 Last Survey 2<sup>nd</sup> March 1908  
 Reg. Book. I.S.S. Ancona (Number of Visits 50) Gross 8885  
 on the I.S.S. Ancona Tons Net 6020  
 Master Belfast Built at Belfast By whom built Workman Clark & Co. Ltd When built 1908  
 Engines made at Belfast By whom made " when made "  
 Boilers made at " By whom made " when made "  
 Registered Horse Power ✓ Owners Off. La Societe di Navigazione a Vapore Italiana Port belonging to Genoa

MULTITUBULAR BOILERS ~~MAIN~~, AUXILIARY OR ~~DONKEY~~. Manufacturers of Steel Workman Clark & Co. Ltd

(Letter for record 3) Total Heating Surface of Boilers 2472 sq ft Is forced draft fitted No No. and Description of Boilers Two - Single End. Cylin Working Pressure 200 lbs Tested by hydraulic pressure to 400 lbs Date of test 20-12-07

No. of Certificate 410 Can each boiler be worked separately Yes Area of fire grate in each boiler 36 3/4 sq ft and Description of safety valves to each boiler Two - Direct Spring Area of each valve 3.98 sq Pressure to which they are adjusted 205 lbs

Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler ✓

Smallest distance between boilers uptakes and bunkers 14" Mean dia. of boilers 12'-0" Length 10'-0"

Material of shell plates Steel Thickness 1 3/32" Range of tensile strength 28-32 tons the shell plates welded or flanged No

Descrip. of riveting: cir. seams Lap St. J. long. seams Butt Lap Diameter of rivet holes in long. seams 1 5/8" Pitch of rivets 8 1/6"

Lap of plates or width of butt straps 1 7/16" Per centages of strength of longitudinal joint rivets 88.6 Working pressure of shell by rules 202 lbs Size of manhole in shell 16" x 12" Size of compensating ring M. Nails No. and Description of Furnaces in each boiler 2 - Reheat Material Steel Outside diameter 46 1/4" Length of plain part top 4" Thickness of plates crown 3 1/2" bottom 3 3/2"

Description of longitudinal joint Weld No. of strengthening rings ✓ Working pressure of furnace by the rules 201 lbs Combustion chamber plates: Material Steel Thickness: Sides 4 3/8" Back 5" Top 4 3/4" Bottom 1 5/16" Pitch of stays to ditto: Sides 9 1/2" x 8" Back 8 1/2" x 8"

Top 9 1/2" x 8" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 204 lbs Material of stays Steel Diameter at smallest part 1 1/2" Area supported by one stay 76 sq in Working pressure by rules 241 lbs Material of plates in steam space: Material Steel Thickness 1 3/32"

Pitch of stays 15 1/2" x 15 1/2" How are stays secured By Nuts & Washers Working pressure by rules 211 lbs Material of stays Steel Diameter at smallest part 2 1/16"

Area supported by one stay 258 1/2 sq in Working pressure by rules 202 lbs Material of Front plates at bottom Steel Thickness 1" Material of Lower back plate Steel Thickness 5/8" Greatest pitch of stays 14" Working pressure of plate by rules 212 lbs Diameter of tubes 3"

Pitch of tubes 4 1/2" x 4 1/2" Material of tube plates Steel Thickness: Front 1" Back 1 1/8" Mean pitch of stays 12 3/4" x 8 1/4" Pitch across wide water spaces 14" Working pressures by rules 261 lbs with 1/16" Bunkles Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8" x (3/4" x 2) Length as per rule 29 1/2" Distance apart 8" Number and pitch of Stays in each 2 - 9 1/2"

Working pressure by rules 203 lbs Superheater or Steam chest; how connected to boiler " 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,  
 FOR WORKMAN, CLARK & CO., LIMITED  
 Manufacturer.  
M. H. Bell

Dates of Survey: During progress of work in shops - - -  
 while building: During erection on board vessel - - -  
 Is the approved plan of boiler forwarded herewith "  
 Total No. of visits "

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

See other sheet

Survey Fee ... .. £ : : } When applied for, ..... 19  
 Travelling Expenses (if any) £ : : } When received, ..... 19

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

Committee's Minute FRI. 6 MAR 1908 FRI. 20 MAR 1908

Assigned

