

## REPORT ON BOILERS.

No. 18506

Date of writing Report 23. 1. 1926. When handed in at Local Office 28. 1. 1926. Port of Greenock  
 No. in Survey held at Port Glasgow Date, First Survey 4th January, 1925. Last Survey 24 Jan'y 1926.  
 Reg. Book. on the SS "PERLA" (Number of Visits 97) Gross Tons 117 Net Tons 117  
 Master PT Glasgow Built at PT Glasgow By whom built The Clyde S B & E Co Ltd When built 1926.  
 Engines made at PT Glasgow By whom made The Clyde S B & E Co Ltd When made 1926.  
 Boilers made at " By whom made " When made 1926.  
 NOMINAL Horse Power 468 Owners Navigazione Libera Italiana Port belonging to Venice.

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

MESSRS KRUPP A.G. — PLATES.  
DILLINGSTEELWORKS. — BARS.

(Letter for record S) Total Heating Surface of Boilers 6960 sq ft Is forced draft fitted Yes. No. and Description of Boilers Three Single ended. Working Pressure 200. Tested by hydraulic pressure to 350. Date of test 18-8-25  
 No. of Certificates 1405 Can each boiler be worked separately Yes. Area of fire grate in each boiler 49.5 sq ft No. and Description of safety valves to each boiler Two direct spring Area of each valve 8.29 sq in Pressure to which they are adjusted 204 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 or uptakes and bunkers or woodwork 9" Mean dia. of boilers 15'-1 3/8" Length 11'-9"  
 Material of shell plates S Thickness 1 3/8" 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.B.S. Diameter of rivet holes in long. seams 1 3/8" Pitch of rivets 9 5/8"  
 Lap of plates on width of butt straps 1'-8 1/2" Per centages of strength of longitudinal joint rivets 86.36 Working pressure of shell by rules 203.9. Size of manhole in shell 16" x 12" Size of compensating ring flanged 3 1/16" No. and Description of Furnaces in each boiler 3 Morrison Material S Outside diameter 3'-11 1/4" Length of plain part 10 1/2" Thickness of plates crown 5/8" bottom 5/8"  
 Description of longitudinal joint Weld. No. of strengthening rings ✓ Working pressure of furnace by the rules 206. Combustion chamber plates: Material S Thickness: Sides 2 1/32" Back 5/8" Top 2 1/32" Bottom 2 1/32" Pitch of stays to ditto: Sides 8 1/2" x 8 9/16" Back 4 3/4" x 8 1/4"  
 Top 8 1/2" x 8 9/16" If stays are fitted with nuts or riveted heads nuts. Working pressure by rules 203 Material of stays S Area at smallest part 1.43 sq in Area supported by each stay 43.48 sq in Working pressure by rules 205.8 End plates in steam space: Material S Thickness 1 1/8"  
 Pitch of stays 18" x 16" How are stays secured double nuts Working pressure by rules 202.8 Material of stays S Area at smallest part 5.56 sq in  
 Area supported by each stay 288 sq in Working pressure by rules 211.5 Material of Front plates at bottom S Thickness 7/8" Material of Lower back plate S Thickness 1 1/16" Greatest pitch of stays 10 1/8" x 8 1/4" Working pressure of plate by rules 209 Diameter of tubes 3"  
 Pitch of tubes 4 1/4" x 4 1/4" Material of tube plates S Thickness: Front 7/8" Back 2 3/32" Mean pitch of stays 8 1/2" x 8 1/2" Pitch across wide water spaces 14" Working pressures by rules 224. Girders to Chamber tops: Material S Depth and thickness of girder at centre 2'-10" x 3/4" Length as per rule 2'-11 5/32" Distance apart 8 1/2" Number and pitch of Stays in each 3-8 9/16"  
 Working pressure by rules 209 Steam dome: description of joint to shell 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 SMOKE TUBE. Date of Approval of Plan MANCHESTER REPORTS ATTACHED 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 Yes.  
 Diameter of Safety Valve 2" Pressure to which each is adjusted 204 lbs Is Easing Gear fitted Yes.

The foregoing is a correct description,  
 THE CLYDE SHIPBUILDING & ENGINEERING CO. LIMITED, Manufacturer.  
Robert Wood

Dates of Survey: During progress of work in shops - - -  
 while building: During erection on board vessel - - -  
See Machinery Report.

Is the approved plan of boiler forwarded hereunder Director Yes.  
 Total No. of visits ✓

## GENERAL REMARKS

(State quality of workmanship, opinions as to class, &c.) The boilers have been built under special survey in accordance with the approved plans. The materials and workmanship are good. They have been securely fitted on board and the safety valves adjusted under steam as stated.

Survey Fee ... £ charged on machinery When applied for, 19  
 Travelling Expenses (if any) £ on machinery When received, 19

Committee's Minute GLASGOW 16 FEB 1926Assigned See accompanying machinery report

Engineer Surveyor to Lloyd's Register of Shipping.

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