

# REPORT ON BOILERS.

No. 18530.

Received at London Office

20 APR 1926

Date of writing Report 23-4-1926 When handed in at Local Office 26-4-1926 Port of Greenock.

No. in Survey held at Port Glasgow. Date, First Survey 4th February 1925. Last Survey 24th April 1926.  
Reg. Book. (Number of Visits 102.) Tons } Gross

on the S S "SABBI A"

Master Built at Port Glasgow. By whom built The Clyde S B & Co. Ltd. When built 1926.

Engines made at Port Glasgow By whom made The Clyde S B & Co. Ltd. When made 1926

Boilers made at " By whom made " When made 1926.

NOMINAL Registered Horse Power 468. Owners NAVIGAZIONE LIBERIA TRIESTINA Port belonging to Venezia.

MESSRS KRUPP & CO. PLATES  
"DILLING" STEEL WKS. BARS.

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

(Letter for record S) Total Heating Surface of Boilers 6960 Is forced draft fitted Yes. No. and Description of Boilers 3. S. B. Working Pressure 200 Tested by hydraulic pressure to 350. Date of test 21-12-25

No. of Certificate 1409 Can each boiler be worked separately Yes. Area of fire grate in each boiler 49.5 No. and Description of safety valves to each boiler Two direct spring Area of each valve 8.29 Pressure to which they are adjusted 204 lb

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"

Top of plates or width of butt straps 1'-8 1/2" Per centages of strength of longitudinal joint 86.36 Working pressure of shell by rules 203.9. Size of manhole in shell 16" x 12" Size of compensating ring flanged 3 1/6" No. and Description of Furnaces in each boiler 3 Corrugated Material S Outside diameter 3'-11 1/4" Length of plain part 10 1/2" Thickness of plates 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 7 1/4" x 8 1/4"

Top 2 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. Diameter at smallest part 1.73 Area supported by each stay 43.48 Working pressure by rules 205.8 End plates in steam space: Material S Thickness 1 1/8"

Pitch of stays 15" x 16" How are stays secured D. NUTS. Working pressure by rules 202.8. Material of stays S Diameter at smallest part 5.56

Area supported by each stay 288 Working pressure by rules 211.5. Material of Front plates at bottom S Thickness 7/8" Material of Lower back plate S Thickness 1 3/16" Greatest pitch of stays 14" x 8 1/4" Working pressure of plate by rules 201. 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 1/4" 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 Superheater or Steam chest: how connected to boiler PIPES. Can the superheater be shut off and the boiler worked separately Yes. 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 ✓ D/A of safety valves to superheater 2" Are they fitted with easing gear Yes.

The foregoing is a correct description,  
For and on behalf of  
THE CLYDE SHIPBUILDING & ENGINEERING CO. MANUFACTURERS.

Is the approved plan of boiler forwarded herewith Yes. Secretary

Total No. of visits ✓

Dates of Survey: During progress of work in shops - -  
while building (During erection on board vessel - -)

See Machinery Report.

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

Survey Fee ... £ : : When applied for, 22nd. Apl. 1916.  
Travelling Expenses (if any) £ ✓ : : When received, 191

W.M. Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 27 APR 1926

Assigned See accompanying machinery report

