

pt. 5a. 201

REPORT ON BOILERS.

No. 18582

Received at London Office 22 JUL 1928

Date of writing Report 19.6.26 When handed in at Local Office 16.7.26 Port of Greenock.

No. in Survey held at Port Glasgow. Date, First Survey 4th May, 1925. Last Survey 15.7.1926

Reg. Book. on the SS "ZVIR". (Number of Visits 67) Tons } Gross Net

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

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

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

NOMINAL registered Horse Power 468. Owners Prekomonska Plovidba Port belonging to Susak

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY.~~ Manufacturers of Steel HENSCHEL & SONS GUTEHOFFUNGSHUTTE, GERMANY DAVID COLVILLE & SONS LTD

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 9/4/26 2/5/26 21/5/26

No. of Certificate 1721 1723 1725. 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 2 DIRECT SPRING. Area of each valve 8.29 Pressure to which they are adjusted 204.

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 lang. seams 1 3/8" Pitch of rivets 9 5/8"

Gap of plates or width of butt straps 1'-8 1/2" Per centages of strength of longitudinal joint rivets 86.36 Working pressure of shell by plate 85.7. 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 NONE 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 3/32" Pitch of stays to ditto: Sides 8 1/2" x 8 3/8" Back 4 1/4" x 8 1/4"

Top 8 1/2" x 8 3/8" If stays are fitted with nuts or riveted heads NUTS. Working pressure by rules 203 Material of stays S Area at smallest part 43.48 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 D.NUTS. Working pressure by rules 202.8 Material of stays S Area at smallest part 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 3/8" 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 3/8"

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 ✓

UPERHEATER. Type ✓ Date of Approval of Plan MANCHESTER REPORT 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 3 (2" Direct Spring) Pressure to which each is adjusted 207. Is Easing Gear fitted YES

The foregoing is a correct description, Robert Wood Manufacturer.

Dates of Survey } During progress of work in shops -- } Is the approved plan of boiler forwarded herewith yes. while building } During erection on board vessel --- } Total No. of visits 67

GENERAL REMARKS (State quality of workmanship, opinions as to class, etc.) The boilers have been built under special survey, in accordance with the approved plans. 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 ... £ charged on machinery report When applied for, ✓ 19... Travelling Expenses (if any) : When received, ✓ 19...

Committee's Minute See p. 6. rpt. attached Assigned See p. 6. rpt. attached Engineer Surveyor to Lloyd's Register of Shipping. J. Davy

