

REPORT ON BOILERS.

No. 18407 CASE

Received at London Office

-9 SEP 1925

Date of writing Report Aug. 15. 1925. When handed in at Local Office Sept 3. 1925 Port of Greenock.

No. in Survey held at Port Glasgow. Date, First Survey 10th February, 1925. Last Survey 14th Aug 1925.

Reg. Book. 12120. on the Single ended boiler for S.S. ACHROITE (Number of Visits 22.) Gross 1196 Tons Net 410.

Master Built at Glasgow. By whom built J. Shearer & Son. When built 1898-8.

Engines made at Glasgow. By whom made Muir & Houston Sta. When made 1898.

Boilers made at Port Glasgow. By whom made Clyde S.B. & E. Co. Sta. When made 1925.

Registered Horse Power Owners W. Robertson. Port belonging to Glasgow.

MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel Beardmore & Co. Ltd.

(Letter for record S) Total Heating Surface of Boilers 2100 sq. ft. Is forced draft fitted No. No. and Description of Boilers One single ended Working Pressure 160 Tested by hydraulic pressure to 290 Date of test 28/4/25

No. of Certificate 1691 Can each boiler be worked separately Area of fire grate in each boiler 63 sq. ft. No. and Description of safety valves to each boiler Two direct spring Area of each valve 8.29 sq. ft. Pressure to which they are adjusted 165.

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 2' 4". Mean dia. of boilers 15' 1 1/8" Length 11' 0".

Material of shell plates S. Thickness 1 1/8" Range of tensile strength 28/32 Are the shell plates welded or flanged No.

rip. of riveting: cir. seams D.R.L. long. seams T.R.D.B.S. Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 4 1/8"

of plates or width of butt straps 1' 4 5/8" Per centages of strength of longitudinal joint rivets 86.9 Working pressure of shell by 165.

Size of manhole in shell 16 1/4" x 12 1/4" Size of compensating ring 2' 9" x 2' 3" x 1 1/8" No. and Description of Furnaces in each 3 Corrugated Material S. Outside diameter 4' 2 1/4" Length of plain part top 8" Thickness of plates crown 19/32" bottom 13/32"

Description of longitudinal joint Weld. No. of strengthening rings Working pressure of furnace by the rules 183. Combustion chamber

Material S. Thickness: Sides 19/32" Back 5/8" Top 19/32" Bottom 1/6" Pitch of stays to ditto: Sides 8 1/4" x 8 5/8" Back 8 1/4" x 9 1/2"

8 1/4" x 8 5/8" If stays are fitted with nuts or riveted heads nuts. Working pressure by rules 140. Material of stays S. Area at

est part 1' 4 5/8" Area supported by each stay 48.345 Working pressure by rules 160 End plates in steam space: Material S. Thickness 1"

of stays 18" x 15" How are stays secured D. nuts Working pressure by rules 168 Material of stays S. Area at smallest part 4' 11"

supported by each stay 240 Working pressure by rules 164. Material of Front plates at bottom S. Thickness 13/16" Material of

back plate S. Thickness 3/4" Greatest pitch of stays 4 1/2" x 8 1/4" Working pressure of plate by rules 163. Diameter of tubes 3 1/2"

of tubes 4 3/4" x 4 5/8" Material of tube plates S. Thickness: Front 13/16" Back 2 1/32" Mean pitch of stays 9 1/2" x 9 1/2". Pitch across wide

spaces 14 1/2" Working pressures by rules 165. Girders to Chamber tops: Material S. Depth and thickness of

at centre 2 - 8 1/2" x 3 1/4" Length as per rule 2' 10 2/32" Distance apart 8 5/8" Number and pitch of Stays in each 3 - 8 1/4"

ing pressure by rules 146 Steam dome: description of joint to shell None fitted % of strength of joint

ter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

of rivets Working pressure of shell by rules Crown plates Thickness How stayed

REHEATER. Type None fitted Date of Approval of Plan Tested by Hydraulic Pressure to

Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

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

Robert C. Wood

During progress of (1925) Feb. 10. 12. 13. 14. 23. 24. Mar. 2. 4. 9. 24. 26. 31. Is the approved plan of boiler forwarded herewith

During erection on Apr. 2. 8. 10. 20. 24. 28. June 12. 16. 30. Aug 14. Total No. of visits 22.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boiler has been built

er special survey, in accordance with the approved plan. The materials and

workmanship are good. The boiler has now been securely fitted on board the

el. and the safety valves adjusted under steam as stated.

vey Fee ... £ 14 : 0 : 0 When applied for 4. 9. 1925.

elling Expenses (if any) £ 10 : 0 : 0 When received 10. 1925.

Committee's Minute GLASGOW 8 - SEP 1925

igned See accompanying report.

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register

W405-0142