

REPORT ON BOILERS.

No. 18601

Received at London Office

8 SEP 1926

Date of writing Report 7.8.26 When handed in at Local Office 31/8/26 Port of Greenock

No. in Survey held at Greenock Date, First Survey 19th January 1926 Last Survey 31st Aug 1926

Reg. Book. S/S "Dalblair" (Number of Visits 63) Tons } Gross

on the Greenock Built at Greenock By whom built Scotts S.S.I.E.C. 7⁹ (528) When built 1926

Engines made at Greenock By whom made Scotts S.S.I.E.C. 0 2⁹ (600) When made 1926

Boilers made at auto By whom made auto (600) When made 1926

Registered Horse Power Owners The United Steam Navigation Co Port belonging to Newcastle on Tyne

MULTITUBULAR BOILERS RETAIN DONKEY.—Manufacturers of Steel Beardmore, Galloway, Larne, Glasgow

Letter for record R Total Heating Surface of Boilers 4440 Is forced draft fitted No No. and Description of Boilers one single ended Working Pressure 120 Tested by hydraulic pressure to 230 Date of test 22.6.26

No. of Certificate 1430 Can each boiler be worked separately Yes Area of fire grate in each boiler 39.4 No. and Description of Safety valves to each boiler boiler high lift (2) Area of each valve 4.91 Pressure to which they are adjusted 125 lbs

Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No

Smallest distance between boilers or uptakes and bunkers or woodwork 12" Mean dia. of boilers 12.023/32 Length 10.6'

Material of shell plates S Thickness 23/32 Range of tensile strength 28/32 Are the shell plates welded or flanged Yes

Description of riveting: cir. seams DR long. seams DR.DBS Diameter of rivet holes in long. seams 29/32 Pitch of rivets 4 15/16"

Gap of plates or width of butt straps 9 1/2" Percentages of strength of longitudinal joint rivets 84 plate 81.6 Working pressure of shell by rules 121

Size of manhole in shell 16 x 12" Size of compensating ring 36 x 28 x 7/8" No. and Description of Furnaces in each boiler 2 plain Material S Outside diameter 3.8" Length of plain part 7.0" Thickness of plates 21/32

Description of longitudinal joint weld No. of strengthening rings Yes Working pressure of furnace by the rules 122 Combustion chamber plates: Material S Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 9/16" Pitch of stays to ditto: Sides 9 x 9" Back 8 x 10 1/2"

Top 9 x 8 3/4" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 133 Material of stays Iron Area at smallest part 448.149 Area supported by each stay 81" Working pressure by rules 120 End plates in steam space: Material S Thickness 7/8"

Pitch of stays 14 1/2 x 15 7/8" How are stays secured DN Working pressure by rules 121 Material of stays S Area at smallest part 3.1416

Area supported by each stay 278" Working pressure by rules 124 Material of Front plates at bottom S Thickness 1 1/16" Material of Lower back plate S Thickness 5/8" Greatest pitch of stays 4 1/2" Working pressure of plate by rules 123 Diameter of tubes 3"

Pitch of tubes 4 1/8 x 4 1/8" Material of tube plates S Thickness: Front 1 1/16" Back 1 1/16" Mean pitch of stays 10.3" Pitch across wide water spaces 14 1/2" Working pressures by rules 126 Girders to Chamber tops: Material S Depth and thickness of girder at centre 6 1/2 x 3 1/4 (2) Length as per rule 2-5" Distance apart 8 3/4" Number and pitch of Stays in each 2 at 9"

Working pressure by rules 140 Steam dome: description of joint to shell Yes % of strength of joint

Diameter 12" Thickness of shell plates 23/32" Material S Description of longitudinal joint weld Diam. of rivet holes 29/32"

Pitch of rivets 4 15/16" Working pressure of shell by rules 121 Crown plates Yes Thickness 21/32" How stayed Yes

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

Date of Test None Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yes

Diameter of Safety Valve None Pressure to which each is adjusted None Is Easing Gear fitted Yes

RETAIN

The foregoing is a correct description, SCOTTS SHIPBUILDING & ENGINEERING COMPANY LIMITED Manufacturer.

Mr. Arch. Rennie Is the approved plan of boiler forwarded herewith Yes Chief Draughtsman.

Dates of Survey } During progress of work in shops - - }
while building } During erection on board vessel - - - }

See Machinery Report.

Total No. of visits 63

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey in accordance with the approved plans & the workmanship & material are of good quality & it is now securely fitted on board. This Rept. accompanies that of the Machinery.

Survey Fee ... £ 4 : 4 : } When applied for, 1st Sept. 1926
Travelling Expenses (if any) £ ✓ : } When received, 8-9-26

W. Gordon-Maclean Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 7-SEP 1926

Assigned see accompanying Mach. Report.



W382-0149