

REPORT ON BOILERS.

No. 18601

Received at London Office

8 SEP 1926

Writing Report *Y. 8. 26* When handed in at Local Office *31/8/1926* Port of *Greenock*
 No. in Survey held at *Greenock* Date, First Survey *19th January, 1926.* Last Survey *31st Aug 1926.*
 eg. Book. *S/S "Dabblair"* (Number of Visits *63.*) Gross Tons }
 on the } Net
 Built at *Greenock* By whom built *Scotts S.S. & E.C. 29 (628)* When built *1926*
 Engines made at *Greenock* By whom made *Scotts S.S. & E.C. 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 *1440* 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 *✓* Area of fire grate in each boiler *396* 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 lb*

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 *✓*

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"*

Width of butt straps *9 1/2"* Per centages of strength of longitudinal joint *84* 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 *top 7.0"* Thickness of plates *bottom 6.6"* *21/32*

Description of longitudinal joint *weld* No. of strengthening rings *✓* 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 % 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 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

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

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

Mr. Arch. Rennie
 Is the approved plan of boiler forwarded herewith *yes*
 Total No. of visits

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

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, *8-9-1926*

Committee's Minute *GLASGOW 7-SEP 1926*

Assigned *See accompanying Mach. Report.*

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