

# REPORT ON BOILERS.

No. 18601.  
8 SEP 1926

Received at London Office

Year of writing Report **1926** When handed in at Local Office **31/8/1926** Port of **Glasgow**  
 No. in Survey held at **Glasgow** Date, First Survey **19th January 1926** Last Survey **31st Aug 1926**  
 Reg. Book. **S/S Dalblair** (Number of Visits **63**)  
 on the **S/S Dalblair** Tons **Gross**  
 Master **Glasgow** Built at **Glasgow** By whom built **Scott's Shipbuilding Co. Ltd.** When built **1926**  
 Engines made at **Glasgow** By whom made **Scott's Shipbuilding Co. Ltd. (600)** When made **1926**  
 Boilers made at **Glasgow** By whom made **Glasgow (600)** When made **1926**  
 Registered Horse Power **—** Owners **The United Steam Navigation Co.** Port belonging to **Glasgow**

## MULTITUBULAR BOILERS—MAIN, **REMAIN**—Manufacturers of Steel **Lanarkshire, Beardmore & Co. Ltd.**

Letter for record **R** Total Heating Surface of Boilers **6446 sq ft** Is forced draft fitted **Yes** No. and Description of Boilers **2 Single Cylinders** Working Pressure **180** Tested by hydraulic pressure to **320** Date of test **22.6.26**  
 No. of Certificate **1427, 1429** Can each boiler be worked separately **Yes** Area of fire grate in each boiler **60 sq ft** No. and Description of safety valves to each boiler **Backboard high lift (2)** Area of each valve **4.04 sq ft** Pressure to which they are adjusted **185**  
 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 **12"** Mean dia. of boilers **16.45/16"** Length **12.0"**  
 Material of shell plates **S** Thickness **15/16"** Range of tensile strength **28-32** Are the shell plates welded or flanged **—**  
 Descrip. of riveting: cir. seams **DR** long. seams **TRIDBS** Diameter of rivet holes in long. seams **15/16"** Pitch of rivets **9 1/4"**  
 Lap of plates or width of butt straps **1 - 4 5/8"** Per centages of strength of longitudinal joint **85.82%** Working pressure of shell by rules **180** Size of manhole in shell **16 x 12"** Size of compensating ring **38 x 31 x 15/16"** No. and Description of Furnaces in each boiler **3 Corrugated** Material **S** Outside diameter **4-3"** Length of plain part **—** Thickness of plates **21/32"**  
 Description of longitudinal joint **weld** No. of strengthening rings **—** Working pressure of furnace by the rules **199** Combustion chamber plates: Material **S** Thickness: Sides **5/8"** Back **1 1/16"** Top **5/8"** Bottom **7/8"** Pitch of stays to ditto: Sides **8 x 9 1/4"** Back **11 x 7 1/8"**  
 Top **8 1/4 x 9"** If stays are fitted with nuts or riveted heads **Nuts** Working pressure by rules **180** Material of stays **Iron** Area at smallest part **14 1/2 sq ft** Area supported by each stay **44.25 sq ft** Working pressure by rules **204** End plates in steam space: Material **S** Thickness **17/32"**  
 Pitch of stays **21 x 16"** How are stays secured **DN** Working pressure by rules **185** Material of stays **S** Area at smallest part **5.939 sq ft**  
 Area supported by each stay **336 sq ft** Working pressure by rules **195** Material of Front plates at bottom **S** Thickness **7/8"** Material of Lower back plate **S** Thickness **13/16"** Greatest pitch of stays **4 1/2 x 7 1/8"** Working pressure of plate by rules **197** Diameter of tubes **3"**  
 Pitch of tubes **4 1/8 x 4 1/8"** Material of tube plates **S** Thickness: Front **7/8"** Back **3/4"** Mean pitch of stays **10.312"** Pitch across wide water spaces **14 1/2"** Working pressures by rules **181** Girders to Chamber tops: Material **S** Depth and thickness of girder at centre **10 x 3 1/4 (2)** Length as per rule **36"** Distance apart **8 1/2 x 9"** Number and pitch of Stays in each **3 at 8 1/4"**  
 Working pressure by rules **198** Steam dome: description of joint to shell **—** % of strength of joint **—**

## SUPERHEATER. Type **N.E. MARINE** Date of Approval of Plan **SEE COPY 906572 attached** Tested by Hydraulic Pressure to **540 lb**

Date of Test **29.4.26** Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler **Yes**  
 Diameter of Safety Valve **2"** Pressure to which each is adjusted **185** Is Easing Gear fitted **Yes**  
**SCOTT'S SHIPBUILDING & ENGINEERING COMPANY LIMITED**  
 The foregoing is a correct description,  
**J. Arch. Rennie** Chief Draughtsman, Manufacturer.

Is the approved plan of boiler forwarded herewith **Yes**  
 Total No. of visits **—**

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) **These boilers have been built under special survey in accordance with the approved plans & the workmanship & material are of good quality. They have now been securely fitted on board. This report accompanies that of the Machinery.**

Survey Fee **£19** When applied for, **19**  
 Travelling Expenses (if any) **See Machinery Report** When received, **19**  
**J. Gordon-Maclachlan** Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW 7-SEP 1926**  
 Assigned **See accompanying Mach. Report.**  
**W382-0148**  
 Lloyd's Register Foundation