

# REPORT ON BOILERS.

No. 18528.

Received at London Office

Date of writing Report **2/3/26** When handed in at Local Office **16th April 1926** Port of **Glasgow**  
 No. in Survey held at **Glasgow** Date, First Survey **11th September, 1924** Last Survey **15/4/1926**  
 Reg. Book. **S/S "Margalau"** (Number of Visits **60**) Gross Tons **15/4** Net Tons **15/4**  
 Master **P. L. L. L.** Built at **Glasgow** By whom built **Lithgow & Co. (766)** When built **1926**  
 Engines made at **Glasgow** By whom made **John & Macdonald & Co. (621)** When made **1926**  
 Boilers made at **ditto** By whom made **ditto (621)** When made **1926**  
 Registered Horse Power **484** Owners **W. A. Macdonald & Co. Ltd.** Port belonging to **London**

MULTITUBULAR BOILERS—MAIN, **WATER TUBE**—Manufacturers of Steel **Beardmore, L. & Co. Ltd.**

(Letter for record **S**) Total Heating Surface of Boilers **7263** Is forced draft fitted **Yes** No. and Description of Boilers **3 Single ended 3 SB.** Working Pressure **180** Tested by hydraulic pressure to **220** Date of test **27/3/25**  
 No. of Certificate **1684** Can each boiler be worked separately **Yes** Area of fire grate in each boiler **9.62** No. and Description of safety valves to each boiler **Double Spring** 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 **Yes**  
 Smallest distance between boilers or uptakes and bunkers **27"** Mean dia. of boilers **16.0"** Length **11.6"**  
 Material of shell plates **S** Thickness **17/32"** Range of tensile strength **28/32"** Are the shell plates welded or flanged **Yes**  
 Descrip. of riveting: cir. seams **DR** long. seams **TR. D B S** Diameter of rivet holes in long. seams **1 1/4"** Pitch of rivets **8 3/4"**  
 Width of butt straps **1-6 1/2"** Per centages of strength of longitudinal joint **88.75%** Working pressure of shell by rules **181** Size of manhole in shell **16 1/2" x 20 1/2"** Size of compensating ring **24 1/2" x 30 1/2" x 1 1/4"** No. and Description of Furnaces in each boiler **3 Bourgeois** Material **S** Outside diameter **3.11 1/4"** Length of plain part **2.9 1/16"** Thickness of plates **15/16"**  
 Description of longitudinal joint **weld** No. of strengthening rings **5/8"** Working pressure of furnace by the rules **185** Combustion chamber plates: Material **S** Thickness: Sides **5/8"** Back **11/16"** Top **5/8"** Bottom **3/4"** Pitch of stays to ditto: Sides **8 9/14"** Back **8 7/8" x 8 1/8"**  
 Top **8 9/14"** If stays are fitted with nuts or riveted heads **Nuts** Working pressure by rules **181** Material of stays **S** Area at smallest part **15/16"**  
 Area supported by each stay **4 1/4"** Working pressure by rules **192** End plates in steam space: Material **S** Thickness **15/16"**  
 Pitch of stays **2 1/2"** How are stays secured **DN** Working pressure by rules **183** Material of stays **S** Area at smallest part **15/16"**  
 Area supported by each stay **4 1/4"** Working pressure by rules **182** Material of Front plates at bottom **S** Thickness **15/16"** Material of Lower back plate **S** Thickness **25/32"** Greatest pitch of stays **13 1/4"** Working pressure of plate by rules **183** Diameter of tubes **2 1/2"**  
 Pitch of tubes **3 3/4" x 3 3/4"** Material of tube plates **S** Thickness: Front **15/16"** Back **5/8"** Mean pitch of stays **8 3/7"** Pitch across wide water spaces **13"** Working pressures by rules **182** Girders to Chamber tops: Material **S** Depth and thickness of girder at centre **8 1/2" x 3 1/4" (2)** Length as per rule **31.4"** Distance apart **9 1/4"** Number and pitch of Stays in each **3 at 8"**  
 Working pressure by rules **184** 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**

SUPERHEATER. Type **Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler**  
 Date of Test **Pressure to which each is adjusted** Is Easing Gear fitted **Yes**  
 Diameter of Safety Valve **Is the approved plan of boiler forwarded herewith**

The foregoing is a correct description,  
**FOR JOHN G. KINCAID & COY., LIMITED.**  
**Robert Green** Manufacturer.

Dates of Survey **During progress of work in shops - - -**  
 while building **During erection on board vessel - - -** See Machinery Report.  
 Is the approved plan of boiler forwarded herewith **Yes**  
 Total No. of visits **60**

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 are now securely fitted on board.**  
**This Rept. accompanies trial of the Machinery**

Survey Fee **£** When applied for, **19**  
 Travelling Expenses (if any) **charged on party left** When received, **19**  
**W. E. London** Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW 20 APR 1926**  
 Assigned **See accompanying machinery report.**