

# REPORT ON BOILERS.

No. 37309  
WED. 5-DEC. 1917

Received at London Office

Date of writing Report 1917 When handed in at Local Office 1917 Port of **GLASGOW.**

No. in Survey held at Reg. Book. on the **S.S. Ville d'Irmas** Date, First Survey **21st March** Last Survey **26th June 1917**  
 (Number of Visits **22**) Gross Tons **462** Net Tons **462**

Master Built at **Londonderry** By whom built **J. & G. of Inland Shipbuilding Co. Ltd. 1869** When built **1918**

Engines made at **Greenock** By whom made **John & Inland Co. Ltd. (No. 462)** When made

Boilers made at **Parsley** By whom made **A. F. Craig & Co. Ltd. (602-3-4)** When made **1917**

Registered Horse Power Owners Port belonging to

## MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~—Manufacturers of Steel **Beaumont & Co. Ltd. Steel Coy. Ltd.**

(Letter for record **S**) Total Heating Surface of Boilers **6942 sq ft** Is forced draft fitted **Yes** No. and Description of Boilers **3 Single Ended** Working Pressure **180** Tested by hydraulic pressure to **360** Date of test **76 11 17**

No. of Certificate **13943** Can each boiler be worked separately **Yes** Area of fire grate in each boiler **53.59 sq ft** No. and Description of safety valves to each boiler **2 - direct Spring** Area of each valve **8' 2 sq in** Pressure to which they are adjusted **185 lbs**

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 or woodwork **Board 2 ft** Mean dia. of boilers **15.17 in** Length **11-9 in**

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 **TRIDBS** Diameter of rivet holes in long. seams **1 1/4 in** Pitch of rivets **8 3/4 in**

width of butt straps **18 1/2 in** Per centages of strength of longitudinal joint rivets **85.68%** Working pressure of shell by rules **182** Size of manhole in shell **16 x 12 in** Size of compensating ring **28 1/4 x 32 1/4 x 1 1/4 in** No. and Description of Furnaces in each boiler **3 Corrugated** Material **S** Outside diameter **3.11 1/4 in** Length of plain part **9 1/16 in** Thickness of plates **9 1/16 in**

Description of longitudinal joint **weld.** No. of strengthening rings **1** Working pressure of furnace by the rules **183** Combustion chamber plates: Material **S** Thickness: Sides **19/32** Back **19/32** Top **19/32** Bottom **3/4 in** Pitch of stays to ditto: Sides **4 1/2 x 8 1/4 in** Back **8 3/4 x 7 5/8 in**

Top **8 1/4 x 4 8 in** If stays are fitted with nuts or riveted heads **Yes** Working pressure by rules **182** Material of stays **S** Diameter at smallest part **1 1/2 in** Area supported by each stay **64 sq in** Working pressure by rules **181** End plates in steam space: Material **S** Thickness **1 in**

Pitch of stays **15 1/2 x 15 1/2 in** How are stays secured **DN** Working pressure by rules **184** Material of stays **S** Diameter at smallest part **1 3/4 in**

Area supported by each stay **240 sq in** Working pressure by rules **198** Material of Front plates at bottom **S** Thickness **7/8 in** Material of Lower back plate **S** Thickness **13/16 in** Greatest pitch of stays **12 3/4 x 8 3/4 in** Working pressure of plate by rules **190** Diameter of tubes **2 1/2 in**

Pitch of tubes **33 1/4 x 33 1/4 in** Material of tube plates **S** Thickness: Front **1 in** Back **3/4 in** Mean pitch of stays **9 3/8 in** Pitch across wide water spaces **13 in** Working pressures by rules **184** Girders to Chamber tops: Material **S** Depth and thickness of girder at centre **9 3/4 x 3 1/4 in** Length as per rule **34 1/2 in** Distance apart **8 in** Number and pitch of Stays in each **3 at 8 1/4 in**

Working pressure by rules **183** Superheater or Steam chest: how connected to boiler **None** Can the superheater be shut off and the boiler worked separately **Yes**

Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

Survey request form No. **1** attached

The foregoing is a correct description, **A. F. CRAIG & CO., LTD.** Manufacturer. **Director J. Macintosh**

Dates of Survey During progress of work in shops: **1917 Mar. 21, Apr. 2, 12, 27, May 22, 31, June 14, 19.** Is the approved plan of boiler forwarded herewith **Yes**

while building: **July 12, 19, 27, Aug 2, 6, 14, 21, Oct 3, 10, 23, Nov 1, 7, 16, 26.** Total No. of visits **22**

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. These boilers are seen shipped to Londonderry, at which port they will be fitted on board.**

Survey fee: **1/3 of fee to be credited to this** When applied for, **1917** When received, **1917**

Traveling Expenses (if any) £ **None**

**W. Gordon Macintosh**  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW 4-DEC-1917**

Assigned **TRANSMIT TO LONDON**

**FRI. 4-APR. 1919**  
**FRI. JAN. 2-1920**  
**TUE. 18 JUN. 1913**  
**FRI. SEP. 27. 1913**  
**TUE. OCT. 19 1920**  
**FRI. 17 JUN. 1921**  
**FRI. 13 FEB. 1920**  
**TUE. 16 MAR. 1920**

WS29-0276