

pt. 5a.

Hull Rph No. 35125

SAT. APR. 12 1924

# REPORT ON BOILERS.

No. 43367

Received at London Office WFD. 20 FEB. 1924

Date of writing Report Feb 4<sup>th</sup> 1924 When handed in at Local Office Feb 15<sup>th</sup> 1924 Port of **GLASGOW.**

No. in Survey held at **Glasgow** Date, First Survey **24<sup>th</sup> Aug 1920** Last Survey **Feb 4<sup>th</sup> 1924**

Reg. Book. **24** on the **S.E. Marine Boiler** for **S.S. "GLYNCONWY"** (Number of Visits **20**) Tons **Gross** **Net**

Master **Goole** Built at **Goole** By whom built **Goole S.B. & R. Co. Ltd. (2253)** When built **1924**

Engines made at **Cochridge** By whom made **W. Beardmore & Co. Ltd.** When made **1924**

Boiler made at **Glasgow** By whom made **A. & W. Dalglisch** No. **444** When made **1924**

Registered Horse Power **Owners** **Clwyd S.S. Co. Ltd.** Port belonging to **Liverpool.**

**MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.**—Manufacturers of Steel **D. Dalrymple & Sons Ltd. steel co. of Scotland**

Letter for record **S** Total Heating Surface of Boilers **1566** sq ft Is forced draft fitted **No** No. and Description of Boilers **One S.E. Marine** Working Pressure **180** LBS Tested by hydraulic pressure to **320** LBS Date of test **4-2-24**

No. of Certificate **16424** Can each boiler be worked separately **Yes** Area of fire grate in each boiler **51** sq ft No. and Description of Safety valves to each boiler **1 double spring loaded** Area of each valve **5.93** sq in Pressure to which they are adjusted **183** lb.

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 **22** in INT dia. of boilers **13' 0"** Length **10' 3"**

Material of shell plates **S** Thickness **1 7/16** Range of tensile strength **28 - 32** Are the shell plates welded or flanged **No**

Description of riveting: cir. seams **DR** long. seams **TR DBS** Diameter of rivet holes in long. seams **1 1/8** Pitch of rivets **7 3/4 x 4 3/4**

Width of butt straps **16 5/8** Per centages of strength of longitudinal joint rivets **89** plate **85.5** Working pressure of shell by rules **181**

Size of manhole in shell **16" x 12"** Size of compensating ring **32 x 28 x 1 1/2** No. and Description of Furnaces in each boiler **3 Deighton** Material **S** Outside diameter **42 1/4** Length of plain part **top** **bottom** Thickness of plates **crown** **33** **bottom** **64**

Description of longitudinal joint **Weld** No. of strengthening rings **None** Working pressure of furnace by the rules **186** Combustion chamber plates: Material **S** Thickness: Sides **11** Back **19** Top **11** Bottom **11** Pitch of stays to ditto: Sides **9 x 8 1/2** Back **8 x 8**

Top **9 x 8 1/2** If stays are fitted with nuts or riveted heads **Nuts** Working pressure by rules **190** Material of stays **S** Area at smallest part **1.5** Area supported by each stay **64** Working pressure by rules **184** End plates in steam space: Material **S** Thickness **1 1/8**

Pitch of stays **18 x 18** How are stays secured **D. Nut & W** Working pressure by rules **185** Material of stays **S** Area at smallest part **6.1**

Area supported by each stay **324** Working pressure by rules **195** Material of Front plates at bottom **S** Thickness **4/8** Material of lower back plate **S** Thickness **4/8** Greatest pitch of stays **14 x 8** Working pressure of plate by rules **200** Diameter of tubes **3 1/4**

Pitch of tubes **4 3/8 x 4 3/8** Material of tube plates **S** Thickness: Front **4/8** Back **23/32** Mean pitch of stays **8 3/4** Pitch across wide water spaces **14** Doublers Working pressures by rules **258** Girders to Chamber tops: Material **S** Depth and thickness of girder at centre **8 1/2 x 11/16** Length as per rule **30 3/16** Distance apart **8 1/2** Number and pitch of Stays in each **2 @ 9**

Working pressure by rules **194** Steam dome: description of joint to shell **None** % 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 **None** 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 **-**

Annual Survey Request **The foregoing is a correct description,**  
**A. & W. Dalglisch.** Manufacturers

Dates of Survey: During progress of **1920 Aug 24-31, Oct 12, Nov 30, 1921 Jan 27, Mar 1, Apr 5, 1922 May 11, 18, Aug 9, 1922 Jan 7, 1923 Jan 10, 18, 20, Feb 22, Mar 12, 1924 Feb 7.** Is the approved plan of boiler forwarded herewith **Yes**

While building: During erection on board vessel **-** Total No. of visits **20**

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) **This boiler has been built under special survey. The workmanship and materials are of good quality. The boiler is intended for a vessel building at Goole S.B. Coy. The boiler has been properly fitted & secured on board the S.S. "Glynconwy". Its safety valves have been adjusted under steam and tested for accumulation.**

Survey Fee ... £ **10 : 8** : } When applied for, **Mar 19**  
Travelling Expenses (if any) £ : : } When received, **Mar 19**

**P. Fitzgerald.**

Committee's Minute **GLASGOW 19 FEB 1924** **ENGINEER SURVEYOR TO LLOYD'S REGISTER OF SHIPPING.**  
**TRANSMIT TO LONDON** **TUE. 15 APR. 1924**



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