

REPORT ON BOILERS.

No. 43367

Received at London Office WFD. 20 FEB. 1924

te of writing Report Feb 4th 1924 When handed in at Local Office Feb 15th 1924 Port of **GLASGOW.**

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

Reg. Book. **24** on the **S.E. Marine Boiler** for **S.S. "GLYNCONWY."** (Number of Visits **20**) Gross Tons **20** Net **19**

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. Dalglish** 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. Colville & Sons Ltd. steel co. of Scotland**

Letter for record **S** Total Heating Surface of Boilers **1566** 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** No. and Description of Safety valves to each boiler **1 double spring loaded** Area of each valve **5.93** 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"** dia. of boilers **13' 0"** Length **10' 3"**

Material of shell plates **S** Thickness **1 1/2** 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**

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

No. of manhole in shell **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 18 1/2 bottom 18 1/2** 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 1/2**

Pitch of stays **18" x 18"** How are stays secured **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 power 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 order 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. Dalglish.

Manufacturers

Dates During progress of **1920 Aug 24, 31, Oct 12, Nov 30, 1921 Jan 27, Mar 1, Apr 5, 1922 May 11, 18, Aug 9, 1923 Jan 7, 14, 21, Feb 4, 11, 18, 25, Apr 1, 8, 15, 22, May 12, 1924 Feb 7.** Is the approved plan of boiler forwarded herewith **Yes.**

Survey work in shops **-** while **-** building **-** 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, **19**

Travelling Expenses (if any) £ : : When received, **19**

P. Fitzgerald.

Committee's Minute

GLASGOW 19 FEB 1924

Engineer Surveyor to Lloyd's Register of Shipping.

TUE. 15 APR. 1924

Assigned

TRANSMIT TO LONDON

Lloyd's Register Foundation

003605-003610-0165