

REPORT ON BOILERS.

No. 34768

Received at London Office JAN 27 1915

Date of writing Report 15. 1. 1915 When handed in at Local Office 191 Port of **GLASGOW**

No. in Survey held at **Glasgow** Date, First Survey 29/7/14 Last Survey 14/1/1915

Reg. Book. on the **Marine boiler disengaged No 342** (Number of Visits 27) Gross Tons } Net

Master **For Messrs Northam Clark & Co using works** Built at **Now fitted on board s/s "FAVORITA" ex. "WITIAZ"** By whom built **LS 5-2-17** When built

Engines made at **Glasgow** By whom made **Dunsmuir Jackson (B42)** When made

Boilers made at **Glasgow** By whom made **Dunsmuir Jackson (B42)** When made 1915

Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel **Spencer Colville & Co Ltd Glasgow**

(Letter for record **S**) Total Heating Surface of Boilers **2208 1/2** Is forced draft fitted No. and Description of Boilers **one Single Ended** Working Pressure **185** Tested by hydraulic pressure to **370** Date of test **14-1-15**

No. of Certificate **13000** Can each boiler be worked separately Area of fire grate in each boiler **55.7 1/2** No. and Description of safety valves to each boiler **2-direct spring** Area of each valve **11-24 1/2** Pressure to which they are adjusted **170 lbs**

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 **18"** Mean dia. of boilers **13-10 9/16** Length **12-0**

Material of shell plates **S** Thickness **19/16** Range of tensile strength **28-32** Are the shell plates welded or flanged **No**

Descrip. of riveting: cir. seams **DR** long. seams **TR & DBS** Diameter of rivet holes in long. seams **1 3/16** Pitch of rivets **8 1/4**

Gap of plates or width of butt straps **1-6** Per centages of strength of longitudinal joint rivets **87.4** Working pressure of shell by rules **187** Size of manhole in shell **16 x 12** Size of compensating ring **6 3/4 x 1 5/32** No. and Description of Furnaces in each boiler **3 Corrugated Material S** Outside diameter **3-8 1/2** Length of plain part **top 357 1/2 bottom 64** Thickness of plates **357 1/2**

Description of longitudinal joint **weld** No. of strengthening rings Working pressure of furnace by the rules **195** Combustion chamber plates: Material **S** Thickness: Sides **1 1/16** Back **1 1/16** Top **1 1/16** Bottom **1 5/16** Pitch of stays to ditto: Sides **8 5/8 x 9 7/8** Back **9 7/8 x 8 5/8**

If stays are fitted with nuts or riveted heads **Nuts** Working pressure by rules **192** Material of stays **S** Diameter at smallest part **1 9/16** Area supported by each stay **85** Working pressure by rules **205** End plates in steam space: Material **S** Thickness **13/16** Pitch stays **18 x 17 3/4** How are stays secured **DN** Working pressure by rules **197** Material of stays **S** Diameter at smallest part **5 7/8** Area supported by each stay **219** Working pressure by rules **188** Material of Front plates at bottom **S** Thickness **1** Material of lower back plate **S** Thickness **29/32** Greatest pitch of stays **13 x 8 5/8** Working pressure of plate by rules **200** Diameter of tubes **2 1/2** Pitch of tubes **3 5/8 x 3 1/16** Material of tube plates **S** Thickness: Front **1** Back **13/16** Mean pitch of stays **9 1/8** Pitch across wide water spaces **13 1/2** Working pressures by rules **194** Girders to Chamber tops: Material **Iron** Depth and thickness of girder at centre **10 x 1 1/2** Length as per rule **2-9 1/2** Distance apart **9 3/4** Number and pitch of Stays in each **3 at 8 5/8**

Working pressure by rules **191** Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked separately

Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

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

Survey request form No. **1557** attached

DUNSMUIR & JACKSON, Limited. Are they fitted with easing gear The foregoing is a correct description, **James Flecker** Director. Manufacturer.

Dates During progress of 1914 July 29 Aug 3-6-13-17-18-24 Sept 3-10-16-21 Is the approved plan of boiler forwarded herewith **Yes**

work in shops -- Oct 2-7-13-19-28 Nov 3-9-12-17-27-30 Dec 7-14-18

while During erection on 1915 Jan 12-14 Total No. of visits **27**

building board vessel --

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) **This boiler has been built under special survey in accordance with the approved plan & the workmanship & material are of good quality. This boiler is to the order of Messrs James & Co Ltd. Engineers Glasgow & now intended for sale (Boiler at Messrs Works) Now fitted on board s/s "Favorita" ex. "Witiaz" 9/7/23**

Survey Fee ... £ **7 : 7** When applied for, **26/1/1915**

Travelling Expenses (if any) £ : : When received, **29/1/1915**

John Gordon-Macdonald Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute **GLASGOW 26 JAN 1915**

Assigned TRANSMIT TO LONDON

J.P. Southwell July 9th 1923

Lloyd's Register

W660-0171

FRI JUL 27 1915