

REPORT ON BOILERS.

No. 39505

Received at London Office **WED. 7 - JAN. 1920**

Writing Report **1st Sept 1919** When handed in at Local Office **2 - 1 - 1920** Port of **Glasgow**

in Survey held at **Glasgow** Date, First Survey **13 / 5 / 19** Last Survey **26th Aug 1919**

Book. on the Boilers No **B. 123** for ss. **JESSIE SUMMERFIELD** (Number of Visits **12**) Gross **423** Tons Net **161**

or **G. Summerfield** Built at **Ayr** By whom built **Ailsa S.B. Co. (No 342)** When built **1919**

es made at **TROON** By whom made **Ailsa S.B. Co. (No 104)** when made **1919**

rs made at **Glasgow** By whom made **Burns & Jackson** B. 123 when made **1919**

tered Horse Power **89** Owners **Summerfield S.S. Co.** Port belonging to **Liverpool**

LTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel **Steel Co of Scotland. Stewart & Lloyd**

er for record **S** Total Heating Surface of Boilers **1827** Is forced draft fitted **No** No. and Description of

rs **One Multitubular Single Ended** Working Pressure **130 lbs** Tested by hydraulic pressure to **260** Date of test **26/8/19**

of Certificate **14867** Can each boiler be worked separately **Yes** Area of fire grate in each boiler **53 1/2 sq ft** No. and Description of

valves to each boiler **Full spring loaded** Area of each valve **4.06 sq ft** Pressure to which they are adjusted **135 lbs**

they fitted with easing gear **Yes** In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler **No**

lest distance between boilers or uptakes and bunkers or woodwork **8'-3"** dia. of boilers **13'-9"** Length **10'-6"**

rial of shell plates **S** Thickness **7/8"** Range of tensile strength **28/32** Are the shell plates welded or flanged **No**

rip. of riveting: cir. seams **L.D.R.** long. seams **Hot Shape T.P.** Diameter of rivet holes in long. seams **1 1/8"** Pitch of rivets **7 1/4"**

width of butt straps **17 7/8"** Per centages of strength of longitudinal joint rivets **93.2** Working pressure of shell by plate **84.4**

134 Size of manhole in shell **16 x 12"** Size of compensating ring **No** No. and Description of Furnaces in each

3 Plain Material **S** Outside diameter **42 1/4"** Length of plain part top **75** Thickness of plates crown **23/32** bottom **83**

ription of longitudinal joint **Weld** No. of strengthening rings **None** Working pressure of furnace by the rules **138** Combustion chamber

s: Material **S** Thickness: Sides **23/32"** Back **5/8"** Top **23/32"** Bottom **23/32"** Pitch of stays to ditto: Sides **10 1/8" x 9 3/4"** Back **10" x 9 3/4"**

10 1/8" x 9" If stays are fitted with nuts or riveted heads **Nuts** Working pressure by rules **133** Material of stays **S** Area **Area** Diameter at

lest part **1 1/4"** Area supported by each stay **97.5** Working pressure by rules **156** End plates in steam space: Material **S** Thickness **1 1/32"**

of stays **20 x 1 1/8"** How are stays secured **S. Nuts** Working pressure by rules **130 lbs** Material of stays **S** Area **Area** at smallest part **4.77**

supported by each stay **365.5** Working pressure by rules **135** Material of Front plates at bottom **S** Thickness **7/8"** Material of

er back plate **S** Thickness **49/64** Greatest pitch of stays **14 1/4" x 9 3/4"** Working pressure of plate by rules **135** Diameter of tubes **3 1/2"**

of tubes **4 5/8" x 1 1/2"** Material of tube plates **S** Thickness: Front **7/8"** Back **23/32"** Mean pitch of stays **10 3/8"** Pitch across wide

r spaces **14 1/4"** Working pressures by rules **133** Girders to Chamber tops: Material **S** Depth and thickness of

er at centre **8 x 1 3/4"** Length as per rule **2-9 1/16"** Distance apart **9"** Number and pitch of Stays in each **2 @ 10 1/8"**

king pressure by rules **132** Superheater or Steam chest: how connected to boiler **Yes** Can the superheater be shut off and the boiler worked

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

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

iffened with rings **Yes** Distance between rings **Yes** Working pressure by rules **Yes** End plates: Thickness **Yes** How stayed **Yes**

king pressure of end plates **Yes** Area of safety valves to superheater **Yes** Are they fitted with easing gear **Yes**

Survey request form

2306 attached

The foregoing is a correct description,

James Fletcher Manufacturer.

ates During progress of 1919 May 13-26-28-30 June 5-9-12-17-24 July 4. Is the approved plan of boiler forwarded herewith **Yes**

Survey work in shops - - -

hile During erection on Aug 14-26

ding board vessel - - -

Total No. of visits **12**

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This boiler has been built under special survey and in accordance with the Rules. The materials and workmanship are sound and good: on completion it was tested by steam pressure to 260 lbs and found tight and satisfactory.

This boiler has been securely fitted aboard and its safety valve adjusted under steam.

Survey Fee ... £ 6 : 2 : } When applied for, 25-9-1919

Travelling Expenses (if any) £ : : } When received, 17-10-1919

Committee's Minute GLASGOW 6 - JAN 1920

Signed See attached machinery report.

Engineer Surveyors to Lloyd's Register of British and Foreign Shipping.