

## REPORT ON BOILERS.

No. 41196

Received at London Office

Date of writing Report 24. 6. 1921 When handed in at Local Office 24. 6. 1921 Port of Glasgow WED. 29 JUN. 1921

No. in Survey held at Glasgow Date, First Survey 24th Sept 1919 Last Survey 13th Feb 1920

Reg. Book. on the Boiler for McKie & Baxter No 955 St. Garryowen "II" (Number of Visits 15) Gross Tons 468 Net Tons 194

Master                      Built at Glasgow By whom built G. Brown & Co When built 1921

Engines made at Glasgow By whom made McKie & Baxter 955 When made 1921

Boilers made at Linthouse, Glasgow By whom made A. Stephens & Sons 599 When made 1920

Registered Horse Power                      Owners                      Port belonging to Limurich

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~.—Manufacturers of Steel Steel Co of Scotland

(Letter for record S) Total Heating Surface of Boilers 2120' 4" Is forced draft fitted Yes No. and Description of Boilers Two single ended multitubular Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 13-2-20

No. of Certificate 15098 Can each boiler be worked separately Yes Area of fire grate in each boiler 31' 12" No. and Description of safety valves to each boiler Two spring loaded Area of each valve 4' 9" Pressure to which they are adjusted 185

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

Smallest distance between boilers or uptakes and bunkers or woodwork 20" ~~12"~~ dia. of boilers 10' 0" Length 11' 0"

Material of shell plates S Thickness 29/32" Range of tensile strength 28-32 tons Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams L. D. R. long. seams D. Straps T. R. Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 6 3/4"

~~Working pressure~~ width of butt straps 16 3/8" Per centages of strength of longitudinal joint rivets 81.4 plate 84.8 Working pressure of shell by rules 186 Size of manhole in shell 16 x 12" Size of compensating rings 35 x 31 x 9/16" No. and Description of Furnaces in each boiler Two Corrugated Material S Outside diameter 38 1/4" Length of plain part                      Thickness of plates crown 15/32" bottom                     

Description of longitudinal joint weld No. of strengthening rings None Working pressure of furnace by the rules 181 Combustion chamber plates: Material S Thickness: Sides 9/16" Back 5/8" Top 9/16" Bottom 13/16" Pitch of stays to ditto: Sides 7 1/4 x 7 1/2" Back 8 1/4 x 8 1/4"

Top 7 1/2 x 7 1/2" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 192 Material of stays S ~~Area~~ Diameter at smallest part 1 5/16" Area supported by each stay 58.15 Working pressure by rules 206 End plates in steam space: Material S Thickness 15/16"

Pitch of stays 4 1/2 x 1 1/4" How are stays secured D. Nuts Working pressure by rules 194 Material of stays S ~~Diameter~~ at smallest part 4.09

Area supported by each stay 203 Working pressure by rules 209 Material of Front plates at bottom S Thickness 15/16" Material of Lower back plate S Thickness 15/16" Greatest pitch of stays 12 1/2 x 10" Working pressure of plate by rules 242 Diameter of tubes 2 1/2"

Pitch of tubes 35/8 x 3 1/2" Material of tube plates S Thickness: Front 15/16" Back 2 1/32" Mean pitch of stays 8 5/16" Pitch across wide water spaces 13" Working pressures by rules 186 Girders to Chamber tops: Material S Depth and thickness of girder at centre 6 1/2 x 2" Length as per rule 28 1/4" Distance apart 7 1/2" Number and pitch of Stays in each 3 @ 7 1/2"

Working pressure by rules 204 Superheater or Steam chest; how connected to boiler                      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 Yes 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 Yes

FOR  
ALEXANDER STEPHENS & SONS, LIMITED, Reception,J. M. W. Deane, Manufacturer.  
Secretary.

Dates of Survey: During progress of 1919 Sep 24 Oct 1. 8. 20 Nov 5. 17 Dec 4. 17. 29 (1920) Jan 13. Is the approved plan of boiler forwarded herewith Yes

while: During erection on 21. 30 Feb 4. 16 13

building: board vessel                     

Total No. of visits 15

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

These boilers have been built under Special Survey and in accordance with the Rules and approved plan: the materials and workmanship are sound and good, on completion they were tested by water pressure to 360 lbs per square inch and found tight and satisfactory in all respects.

Survey Fee ... £ : : When applied for, ..... 191.....

Travelling Expenses (if any) £ : : When received, ..... 191.....

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

Committee's Minute

GLASGOW.

28 JUN 1921

TUE DEC. 5 1922

Assigned

See accompanying report.

Lloyd's Register  
Foundation