

REPORT ON BOILERS.

No. 39625

Received at London Office WED. FEB. 18. 1920

Date of writing Report 191 When handed in at Local Office 16-2-1920 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 26-8-19 Last Survey 30-1-1920
 Reg. Book. on the Boilers no B119 for S.S. "HERON" (Number of Visits 18) Gross Tons Net
 Master W. G. Branthwaite Built at TROON. By whom built Ailea S.B. Co (No 364) When built 1920
 Engines made at Troon By whom made Ailea Shipbuilding Co. Ltd. no 102 When made 1920
 Boilers made at Glasgow By whom made Dunsmuir & Jackson, B119. When made 1920
 Registered Horse Power Owners General Steam Nav. Co Ltd. Port belonging to London.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J. Colville & Sons, J. Spencer & Sons

Letter for record S (2.5.5) Total Heating Surface of Boilers 5154 Is forced draft fitted No. and Description of Boilers Two single ended multitubular Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 28/30-1-20
 No. of Certificate 15063-15064 Can each boiler be worked separately Yes. Area of fire grate in each boiler 83 1/2 ft No. and Description of Safety valves to each boiler Two spring loaded Area of each valve 8.29 sq Pressure to which they are adjusted 185 lbs.
 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 uptakes and bunkers or woodwork 6'-6" Mean dia. of boilers 17'-0 1/32" Length 11'-6"
 Material of shell plates S Thickness 1 1/32" Range of tensile strength 28/32 Are the shell plates welded or flanged No
 Descrip. of riveting: cir. seams L.D.R long. seams T.R. D.B.S. Diameter of rivet holes in long. seams 1 3/8" Pitch of rivets 9 9/16"
 Width of butt straps 20 1/2" Per centages of strength of longitudinal joint rivets 85.75 plate 85.5 Working pressure of shell by rules 182 Size of manhole in shell 16" x 12" Size of compensating ring 7 1/4 x 1 5/16 No. and Description of Furnaces in each boiler 4 Corrugated Material S Outside diameter 49" Length of plain part top 17 1/32" bottom 17 1/32" Thickness of plates crown bottom }
 Description of longitudinal joint Weld No. of strengthening rings None Working pressure of furnace by the rules 185 Combustion chamber
 Material S Thickness: Sides 1/16" Back 1/16" Top 1/16" Bottom 7/8" Pitch of stays to ditto: Sides 9 1/2 x 9 1/2" Back 9 7/8 x 9 1/2"
 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 187 Material of stays S Area at smallest part 2.07 Area supported by each stay 90.25 Working pressure by rules 201 End plates in steam space: Material S Thickness 1 3/16"
 How are stays secured S. nuts Working pressure by rules 190 Material of stays S Area at smallest part 5.78 Area supported by each stay 330 Working pressure by rules 182 Material of Front plates at bottom S Thickness 1 1/32" Material of lower back plate S Thickness 2 9/32" Greatest pitch of stays 14 3/4 x 9" Working pressure of plate by rules 210 Diameter of tubes 3 1/2"
 Pitch of tubes 4 1/16 x 4 1/16 Material of tube plates S Thickness: Front 1 1/32" Back 7/8" Mean pitch of stays 13 3/4" Pitch across wide water spaces 14 1/2" Working pressures by rules 182 Girders to Chamber tops: Material S Depth and thickness of girder at centre 11" x 2" Length as per rule 40 7/16" Distance apart 9 1/2" Number and pitch of Stays in each 3 @ 9 1/2"
 Working pressure by rules 187 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 Are they fitted with easing gear

DUNSMUIR & JACKSON, Limited
 The foregoing is a correct description,
 James Fletcher Manufacturer.

Dates During progress of 1919 Aug 26-Sept 23-30 Oct 14-Nov 11-18 Is the approved plan of boiler forwarded herewith
 Survey while building Dec 5-11-16-17-23-29 Total No. of visits 18
 1920 Jan 12-16-21-28-30

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

These boilers have been built under special survey and in accordance with the Rules. Materials and workmanship are sound and good, on completion they were tested by hydraulic pressure to 360 lbs per square inch and found tight and satisfactory in all respects. These boilers have been securely fitted aboard and their safety valves adjusted under steam.

Survey Fee ... £ 17 1/2
 Travelling Expenses (if any) £ 5 gill
 When applied for 13-2-1920
 When received 14-2-1920

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

Committee's Minute GLASGOW 14 FEB 1920

signed TRANSMIT TO LONDON See Gls. Rpt. 39852

GLASGOW 20 APR 1920
 Lloyd's Register Foundation
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