

REPORT ON BOILERS.

No. 39118.

Received at London Office

Date of writing Report 24 June 1919 When handed in at Local Office 13/9/1919 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 16/4/1918 Last Survey 1/6/1919
 on the S. S. "Trevel" (Number of Visits 1) } Gross Tons
 } Net Tons
 Built at Glasgow By whom built Harland & Wolff Ltd (549) When built 1919
 By whom made Harland & Wolff Ltd (551) When made 1919
 By whom made A. & J. Inglis Ltd (601) When made 1919
 Owners John S. S. Co. Ltd Port belonging to St Ives

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Juan D. Colville & Bond

Letter for record 8 Total Heating Surface of Boilers 7668 sq ft Is forced draft fitted Yes No. and Description of Boilers 3 Multitubular Single Ended Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 4.6.19
 No. of Certificate 14766 Can each boiler be worked separately Yes Area of fire grate in each boiler 63.3 sq ft No. and Description of safety valves to each boiler 2 Spring loaded Area of each valve 9.62 sq in Pressure to which they are adjusted 185 lb
 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 1-9" Mean dia. of boilers 15-6" Length 11-6"
 Material of shell plates S Thickness 1/4" Range of tensile strength 28/32 Are the shell plates welded or flanged No
 Descrip. of riveting: cir. seams D.R. long. seams DBS, T.R. Diameter of rivet holes in long. seams 1 5/16" Pitch of rivets 9 3/8"
 Lap of plates or width of butt straps 19 1/2" Per centages of strength of longitudinal joint rivets 88.3% plate 85.6% Working pressure of shell by rules 182 Size of manhole in shell 16" x 12" Size of compensating ring plate flanged in No. and Description of Furnaces in each boiler 3 Deighton Corrugated Material S Outside diameter 4'-2 3/4" Length of plain part top 19" Thickness of plates bottom 32" Combustion chamber Description of longitudinal joint Weld No. of strengthening rings 4 Working pressure of furnace by the rules 188
 Plates: Material S Thickness: Sides 23/32" Back 1/4" Top 23/32" Bottom 23/32" Pitch of stays to ditto: Sides 5" x 9 1/4" Back 10 1/4" x 8 3/4"
 Top 10 1/8" x 9 1/4" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 180 3/4 Material of stays S Diameter at smallest part 1 1/8" Area supported by each stay 92.25 sq in Working pressure by rules 184 End plates in steam space: Material S Thickness 1/32"
 Pitch of stays 2 1/4" x 20 1/2" How are stays secured Screw Working pressure by rules 192 Material of stays S Diameter at smallest part 3 1/4"
 Area supported by each stay 446 sq in Working pressure by rules 193 Material of Front plates at bottom S Thickness 3/2" Material of Lower back plate S Thickness 24" Greatest pitch of stays 13 5/8" Working pressure of plate by rules 182 Diameter of tubes 2 3/4"
 Pitch of tubes 4" x 3 3/8" Material of tube plates S Thickness: Front 31/32" Back 3/4" Mean pitch of stays 10 6/8" Pitch across wide water spaces 13 5/8" Working pressures by rules 181 1/6 Girders to Chamber tops: Material S Depth and thickness of girder at centre 10" x 8(2) Length as per rule 35 9/16" Distance apart 10 5/8" Number and pitch of Stays in each 3 at 9 1/4"
 Working pressure by rules 188 Superheater or Steam chest; how connected to boiler None Can the superheater be shut off and the boiler worked separately Yes Diameter 10" Length 10" Thickness of shell plates 1/4" Material S Description of longitudinal joint Weld Diam. of rivet holes 1 1/8" Pitch of rivets 9" Working pressure of shell by rules 188 Diameter of flue 10" Material of flue plates S Thickness 1/4"
 If stiffened with rings Yes Distance between rings 10" Working pressure by rules 188 End plates: Thickness 1/4" How stayed Weld
 Working pressure of end plates 188 Area of safety valves to superheater None Are they fitted with easing gear No

The foregoing is a correct description,

A. & J. INGLIS LIMITED. Manufacturers.

William Booth, Secy.

Is the approved plan of boiler forwarded herewith Yes

Total No. of visits 10

Dates of Survey } During progress of 1918 Apr 16-18-22 May 2-11 July 3 Aug 2-1
 while work in shops - - - }
 building } During erection on 1919 Mar 5 June 1
 board vessel - - - }

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

These Boilers have been built under Special Survey in accordance with the approved Plan and the workmanship & materials are of good quality.
These boilers have now been satisfactorily fitted to the vessel as last inspected 11/9/19

Survey Fee £ 100 ... £ 100 When applied for, 1919
 Travelling Expenses (if any) £ 100 When received, 1919

W. P. Murray

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

Committee's Minute GLASGOW 16 SEP 1919

Assigned TRANSMIT TO LONDON

See attached machinery report

Lloyd's Register Foundation W796-0100