

# REPORT ON BOILERS.

No. 39591  
WED. FEB. 4 1920

Received at London Office

Date of writing Report 31<sup>st</sup> Jan 20 When handed in at Local Office 31-1-1920 Port of Glasgow  
 No. in Survey held at Glasgow Date, First Survey 16<sup>th</sup> June 1915 Last Survey 29/2/1920  
 Reg. Book. Marie Boiler designated No 1572 for the S.S. "Havelford" now "Lady Thomas" (Number of Visits 19) } Gross  
 on the Marie Boiler designated No 1572 for the S.S. "Havelford" now "Lady Thomas" Tons } Net  
 Master \_\_\_\_\_ Built at Ardrossan By whom built Ardrossan Dry Dock & Ship Coy When built 1920  
 Engines made at North Shields By whom made Shields Eng & Ship Dock Co When made 1920  
 Boilers made at Glasgow By whom made The Forth Shipbuilding Coy When made 1920  
 Registered Horse Power \_\_\_\_\_ Owners \_\_\_\_\_ Port belonging to Liverpool

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Steel Coy of Scotland & Lancashire

(Letter for record S) Total Heating Surface of Boilers 1209 sq. ft. Is forced draft fitted no No. and Description of Boilers One Single Ended. Working Pressure 140 Tested by hydraulic pressure to 280 Date of test 29/1/20  
 No. of Certificate 15868 Can each boiler be worked separately no Area of fire grate in each boiler 385 sq. ft. No. and Description of safety valves to each boiler \_\_\_\_\_ Area of each valve \_\_\_\_\_ Pressure to which they are adjusted \_\_\_\_\_  
 Are they fitted with easing gear \_\_\_\_\_ In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler \_\_\_\_\_  
 Smallest distance between boilers or uptakes and bunkers or woodwork \_\_\_\_\_ Sub. Mean dia. of boilers 11'-6" Length 10'-0"  
 Material of shell plates S Thickness 13/16 Range of tensile strength 28/02 Are the shell plates welded or flanged no  
 Descrip. of riveting: cir. seams Lap A-R long. seams 5 Butts & 2 Knees Diameter of rivet holes in long. seams 1" Pitch of rivets 5 1/2"  
 Lap of plates or width of butt straps 10 1/2" Per centages of strength of longitudinal joint rivets 82.2 Working pressure of shell by plate 81  
 rules 142 Size of manhole in shell 16" x 12" Size of compensating ring Flanged 5 1/2 x 1" No. and Description of Furnaces in each Boiler No plain Material S Outside diameter 3'-8" Length of plain part top 3'-3" Thickness of plates crown 3/16 bottom 3/16  
 Description of longitudinal joint field No. of strengthening rings no Working pressure of furnace by the rules 149 Combustion chamber plates: Material S Thickness: Sides 5/8" Back 9/16" Top 5/8" Bottom 5/8" Pitch of stays to ditto: Sides 8 1/2 x 9 1/4" Back 8 1/2 x 9 1/4"  
 Top 8 1/2 x 8 1/4" If stays are fitted with nuts or riveted heads nut Working pressure by rules 142 Material of stays Steel Area Diameter at smallest part 4 1/2 sq. in. Area supported by each stay 7 sq. in. Working pressure by rules 156 End plates in steam space: Material S Thickness 3/32"  
 Pitch of stays 16 1/2 x 15 How are stays secured double Nut Working pressure by rules 153 Material of stays Steel Area Diameter at smallest part 3 1/2 sq. in.  
 Area supported by each stay 248 sq. in. Working pressure by rules 144 Material of Front plates at bottom S Thickness 3/4" Material of lower back plate S Thickness 1/16" Greatest pitch of stays 14 1/4 x 9 1/4" Working pressure of plate by rules 174 Diameter of tubes 3 1/4"  
 Pitch of tubes 4 3/8" Material of tube plates S Thickness: Front 3/4" Back 23/32" Mean pitch of stays 10 7/8" Pitch across wide water spaces 14 1/2" Working pressures by rules with doubler 182 Girders to Chamber tops: Material S Depth and thickness of girder at centre 7 x 3/4 x 2 Length as per rule 27 3/4" Distance apart 8 1/2" Number and pitch of Stays in each 2 at 8 1/2"  
 Working pressure by rules 164 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 holes \_\_\_\_\_ 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 \_\_\_\_\_

Survey request form \_\_\_\_\_ The foregoing is a correct description, \_\_\_\_\_  
 No. 1432 attached \_\_\_\_\_  
 FOR THE FORTH SHIPBUILDING & ENGINEERING CO., LTD. Manufacturer. James Ditch

Dates of Survey while building } During progress of work in shops - - } 1915 June 16 Aug 29 16-31 Sept 13-30 Nov 1-23-29 1916 Feb 1. Is the approved plan of boiler forwarded herewith yes  
 } During erection on board vessel - - } 1919 Dec 2-11-14-23-29 1920 Jan 13-24-29 Total No. of visits 19

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)  
The boiler has been built under special survey.  
The workmanship & materials are good.  
This boiler has been securely fitted aboard.

Survey Fee ... £ # : 1 : } When applied for, 3/2/1920  
 Travelling Expenses (if any) £ : : } When received, 5/2/1920  
Robert Cheong P. M. M. A. Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 3-FEB 1920  
 Assigned TRANSMIT TO LONDON See Newcastle P.M.  
No. 72943  
 Lloyd's Register Foundation

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