

# REPORT ON BOILERS.

No. 86479

Date of writing Report March 20<sup>th</sup> 1923 When handed in at Local Office 24 MAR 1923 Port of London  
 No. in Survey held at Stitchin Date, First Survey 8<sup>th</sup> September 1922 Last Survey Feb. 16<sup>th</sup> 1923  
 Reg. Book. M/V. MARGRETTIAN (Number of Visits Two) Gross Tons      Net Tons       
 on the Spencer-Hopwood Patent Boiler No. 1703  
 Master      Built at Bristol By whom built Messrs Chas Hall & Sons When built 1923  
 Boiler made at Stitchin By whom made Messrs Spencer-Bonecourt Ltd When made 1923  
 Owners D. W. Williams Cardiff Port belonging to London  
Registered to Chas Halls & Sons Ltd, Albert Dockyard, Bristol "MS 145"

**VERTICAL DONKEY BOILER**— No. 1703 Description Spencer-Hopwood Manufacturers of steel Stewart & Lloyd Ltd  
 Made at Stitchin By whom made Spencer-Bonecourt When made 1923 Where fixed in engine room Working pressure 120  
 tested by hydraulic pressure to 230 Date of test 16-2-23 No. of Certificate 1252 Fire grate area 18.6 sq ft Description of safety valves 2 Spring loaded  
 No. of safety valves 2 Area of each 5.93 Pressure to which they are adjusted 123 If fitted with easing gear Yes If steam from one boilers can enter the donkey boiler No Dia. of donkey boiler 5'-6" Length 11'-0" Material of shell plates Steel Thickness 7/16" Range of tensile strength 27-32 Descrip. of riveting long. seams S.R. Lap Dia. of rivet holes 7/8" Whether punched or drilled drilled Pitch of rivets 2 3/4"  
 Lap of plating 4 3/8" Per centage of strength of joint Rivets 8870 Working pressure of shell by rules 120 Thickness of shell crown plates 7/8"  
 Radius of do. 5'-0" No. of Stays to do.      Dia. of stays      Diameter of furnace Top 4'-4" Bottom 5'-0" Length of furnace 66"  
 Thickness of furnace plates 7/8" Description of joint welded Working pressure of furnace by rules 125 Thickness of furnace crown plates 11/16" Radius of do. 5'-0" Stayed by      Diameter of uptake 1'-11 1/2" Thickness of uptake plates 11/16"  
 Thickness of water tubes 11 1/2" 20 Stay tubes 1 1/4"  
 The foregoing is a correct description,  
 SPENCER-BONECOURT LTD. Manufacturer.  
*J. W. Gwynne*

Dates of Survey while building { During progress of work in shops - - (1922) Sept 8. (1923) Feb 16  
 { During erection on board vessel - -  
 Total No. of visits 2  
 Is the approved plan of boiler forwarded herewith Yes

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.)  
 The boiler has been built under Special Survey in accordance with the enclosed plan & the Society's Rules.  
 The workmanship is good.  
 Upon completion the boiler was tested by hydraulic pressure to 230 lbs per sq. inch and showed no signs of weakness or defect.  
 The boiler is stamped:—  
 No. 1252  
 Lloyd's Cert  
 230 lbs. hyd.  
 120 lbs. wt.  
 16.2.23 H.P.C.  
 This boiler has been fitted & secured on brass sets & safety valves adjusted under steam

Survey Fee ... £ 4 : 4 : When applied for, 24 MAR 1923  
 Travelling Expenses (if any) £ 1 - 12 - 4 When received, 19.6.23 *J. W. Gwynne*  
 TUE. 11 DEC. 1923  
 Assigned See Gls. Rpt 42900  
 Engineer Surveyor to Lloyd's Register of Shipping.

