

REPORT ON BOILERS.

No. 18702

Received at London Office

18 MAY 1927

Date of writing Report 20/5/27 When handed in at Local Office 9th May 1927 Port of Greenock
 No. in Survey held at Greenock Date, First Survey 3rd June 1926 Last Survey 9th May 1927
 Reg. Book. S/S 'Alexandria I' (Number of Visits 104) Gross Tons }
 on the Greenock By whom built Lithgow, Co. (760) When built 1927
 Master John Kincaid, Esq. (619) When made 1927
 Engines made at Greenock By whom made ditto (619) When made 1927
 Boilers made at Greenock By whom made ditto (619) When made 1927
 Registered Horse Power Jugoslav American Nav Co. Port belonging to Greenock

MULTITUBULAR BOILERS - MAIN, ~~AUXILIARY OR DONKEY~~ Manufacturers of Steel Gruehnoffnungslutte, Rheinische
 (Letter for record S) Total Heating Surface of Boilers 8489 sq ft Is forced draft fitted yes No. and Description of Boilers 3 Single Ended Working Pressure 180 Tested by hydraulic pressure to 320 Date of test 21-8-25
 No. of Certificate 1699 Can each boiler be worked separately yes Area of fire grate in each boiler 63.25 sq ft No. and Description of safety valves to each boiler Double Spring Area of each valve 9.62 sq in 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 -
 Smallest distance between boilers or uptakes and bunkers or woodwork 6' 0" Mean dia. of boilers 15.9" Length 12.0"
 Material of shell plates S Thickness 19/32 Range of tensile strength 28/32 Are the shell plates welded or flanged -
 Descrip. of riveting: cir. seams DR long. seams TR. D.B.S. Diameter of rivet holes in long. seams 15/16 Pitch of rivets 9/14
 Lay of plates or width of butt straps 1: 45/8 Per centages of strength of longitudinal joint 88 Working pressure of shell by rules 181 Size of manhole in shell 16 x 12 Size of compensating ring 2 1/4 x 3 3/4 x 1 9/32 No. and Description of Furnaces in each boiler 3 Corrugated Material S Outside diameter 4.2 1/4 Length of plain part bottom Thickness of plates 19/32
 Description of longitudinal joint weld No. of strengthening rings 83 Working pressure of furnace by the rules 183 Combustion chamber plates: Material S Thickness: Sides 21/32 Back 21/32 Top 21/32 Bottom 25/32 Pitch of stays to ditto: Sides 9 x 9 Back 9 x 9
 Top 9 x 9 1/8 If stays are fitted with nuts or riveted heads Aut. Working pressure by rules 182 Material of stays S Area at smallest part 13.202 Area supported by each stay 81 Working pressure by rules 184 End plates in steam space: Material S Thickness 1 1/8
 Pitch of stays 16 x 19 1/2 How are stays secured DN Working pressure by rules 185 Material of stays S Area at smallest part 6.56
 Area supported by each stay 312 Working pressure by rules 200 Material of Front plates at bottom S Thickness 31/32 Material of Lower back plate S Thickness 26/32 Greatest pitch of stays 133/4 Working pressure of plate by rules 185 Diameter of tubes 2 1/2
 Pitch of tubes 33/4 x 33/4 Material of tube plates S Thickness: Front 31/32 Back 3/4 Mean pitch of stays 9.37 Pitch across wide water spaces 13 1/2 Working pressures by rules 183 Girders to Chamber tops: Material S Depth and thickness of girder at centre 10 x 3 1/4 (2) Length as per rule 37.59 Distance apart 9 1/8 Number and pitch of Stays in each 3 at 9
 Working pressure by rules 182 Steam dome: description of joint to shell - % of strength of joint -
 Diameter - Thickness of shell plates - Material - Description of longitudinal joint - Diam. of rivet holes -
 Pitch of rivets - Working pressure of shell by rules - Crown plates - Thickness - How stayed -
 Tested by Hydraulic Pressure to -

SUPERHEATER. Type - Date of Approval of Plan - Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler -
 Date of Test - Pressure to which each is adjusted - Is Easing Gear fitted -
 Diameter of Safety Valve -

FOR JOHN G. KINCAID & COY. LIMITED
 The foregoing is a correct description,
 J.G. Kincaid & Coy. Ltd. Manufacturer.

Is the approved plan of boiler forwarded herewith yes
 Total No. of visits 104

Dates of Survey: During progress of work in shops - - -
 while building - - -
 See Machinery Report

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
 These boilers have been built under special survey in accordance with the approved plans & the workmanship, material are of good quality. They are now securely fitted on board. This report accords with that of the Machinery.

Survey Fee £ When applied for, 19
 Travelling Expenses £ When received, 19
 charged on Machinery Report

W. Gordon-Mitchell
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW 17 MAY 1927**
 Assigned See G.M. Report.



If not, state whether, and when, one will be sent? In a Report also sent on the hull of the ship?