

REPORT ON BOILERS.

No. 41562

Date of writing Report 5-12-1921 When handed in at Local Office 5-12-1921 Port of Glasgow
 Received at London Office W.F.D. 7 DEC. 1921
 No. in Survey held at Glasgow Date, First Survey 4-3-1920 Last Survey 26-11-1921
 Reg. Book. S/S "Madura" (Number of Visits 91) Gross 8975 Tons Net 5464
 on the
 Master Built at Glasgow By whom built Barclay Curle & Co. (1885) When built 1921
 Engines made at Glasgow By whom made Barclay Curle & Co. (1885) When made 1921
 Boilers made at ditto By whom made ditto When made 1921
 Registered Horse Power 1008 Owners British India S.N.C. & Co. Port belonging to Glasgow

MULTITUBULAR BOILERS ~~...~~, AUXILIARY ~~...~~. - Manufacturers of Steel Edwille
 (Letter for record S) Total Heating Surface of Boilers 1528 sq. ft. Is forced draft fitted Yes
 Boilers one Single Ended Working Pressure 215 Tested by hydraulic pressure to 273 $\frac{1}{2}$ No. and Description of
 No. of Certificate 15657 Can each boiler be worked separately Yes Area of fire grate in each boiler 37.58 sq. ft. Date of test 30-12-20
 safety valves to each boiler Double Spring Area of each valve 6.93 sq. in. Pressure to which they are adjusted 220
 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 12" dia. of boilers 12-0" Length 11-0"
 Material of shell plates S Thickness 15/16" Range of tensile strength 28/32 Are the shell plates welded or flanged No
 Descrip. of riveting: cir. seams OR L long. seams TRIDBS Diameter of rivet holes in long. seams 15/16" Pitch of rivets 8 3/4"
 width of butt straps 19 1/4" Per centages of strength of longitudinal joint rivets 93.85% plate 85% Working pressure of shell by
 rules 246 Size of manhole in shell 16 x 12" Size of compensating ring 3-1/2 x 33 + 15/16" No. and Description of Furnaces in each
 boiler 2 Corrugated Material S Outside diameter 3-9/4" Length of plain part top } Thickness of plates } 21/32"
 Description of longitudinal joint weld No. of strengthening rings Working pressure of furnace by the rules 236 Combustion chamber
 plates: Material S Thickness: Sides 21/32" Back 21/32" Top 21/32" Bottom 1" Pitch of stays to ditto: Sides 8 1/4" Back 8 1/4" + 7/32"
 Top 8 1/4" + 7/32" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 232 Material of stays S Area at
 smallest part 13.236 Area supported by each stay 63.9" Working pressure by rules 216 End plates in steam space: Material S Thickness 13/16"
 Pitch of stays 16 x 16 1/2" How are stays secured DN Working pressure by rules 239 Material of stays S Area at smallest part 6.66"
 Area supported by each stay 264" Working pressure by rules 262 Material of Front plates at bottom S Thickness 21/32" Material of
 Lower back plate S Thickness 29/32" Greatest pitch of stays 14 1/4" Working pressure of plate by rules 216 Diameter of tubes 2 1/2"
 Pitch of tubes 33/4 + 3 5/8" Material of tube plates S Thickness: Front 31/32" Back 13/16" Mean pitch of stays 43/8" Pitch across wide
 water spaces 13 1/2" Working pressures by rules 224 Girders to Chamber tops: Material S Depth and thickness of
 girder at centre 10 x 26 (32/2) Length as per rule 30 17/32" Distance apart 8 1/4" Number and pitch of Stays in each 3 at 7 3/4"
 Working pressure by rules 240 Steam dome: description of joint to shell None % 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

SUPERHEATER. Type None Date of Approval of Plan Tested by Hydraulic Pressure to
 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
 Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

FOR BARCLAY, CURLE & CO., LTD.
John Alexander Manager

The foregoing is a correct description,
 Manufacturer.

Dates During progress of work in shops - - - See attached machy report. Is the approved plan of boiler forwarded herewith Yes
 while building board vessel - - - Total No. of visits 91.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under Special Survey in accordance with the approved plans & the workmanship & material are of good quality. It is now securely fitted on board. This Rept. accompanies that of the Machinery Rept.

Survey Fee ... £ ... applied for, 19...
 Travelling Expenses (if any) charged on Machinery Rept. when received, 19...

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

Committee's Minute
 signed See accompanying machinery report

GLASGOW - 6 DEC 1921

