

REPORT ON BOILERS.

No. 42308.

WED. NOV. 22 1922

Date of writing Report 18. 11. 1922 When handed in at Local Office 18. 11. 1922 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 12th Nov 1920 Last Survey 15. 11. 1922
 Reg. Book. S/S Glan Macfarlane (Number of Visits 64) Gross 6222
 on the Built at Irvine By whom built Dunsmuir & Jackson Ltd When built 1922
 Master Engines made at Glasgow By whom made Dunsmuir & Jackson Ltd When made 1922
 Boilers made at Glasgow By whom made Dunsmuir & Jackson Ltd When made 1922
 Registered Horse Power Owners Bayne Irvine Ltd Port belonging to Glasgow

MULTITUBULAR BOILERS ~~MANUFACTURED BY~~ DONKEY. — Manufacturers of Steel
 (Letter for record S) Total Heating Surface of Boilers 1282 π Is forced draft fitted 970 No. and Description of Boilers one single ended
 No. of Certificate 1642 Can each boiler be worked separately ☒ Area of fire grate in each boiler 31 π No. and Description of safety valves to each boiler 2 Direct Acting Area of each valve 8.29 π Pressure to which they are adjusted 105 π
 Are they fitted with easing gear ☒ In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler 970
 Smallest distance between boilers or uptakes and bunkers or woodwork 6 1/4" Mean dia. of boilers 12.047/64" Length 9.0' π
 Material of shell plates S Thickness 49/64" Range of tensile strength 2832 Are the shell plates welded or flanged 970
 Descrip. of riveting: cir. seams DR long. seams TR Lap Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 4 3/16"
 Lap of plates 4 5/8" Per centages of strength of longitudinal joint rivets 82.25% plate 73.2% Working pressure of shell by rules 105 Size of manhole in shell 16 x 12" Size of compensating ring 30 x 34 x 3/4" No. and Description of Furnaces in each boiler 2 plain Material S Outside diameter 3-6 1/2" Length of plain part top 5.87/16" bottom 6.0/16" Thickness of plates crown 9/16" bottom 9/16"
 Description of longitudinal joint weld No. of strengthening rings 970 Working pressure of furnace by the rules 110 Combustion chamber plates: Material S Thickness: Sides 17/32" Back 9/16" Top 7/32" Bottom 3/4" Pitch of stays to ditto: Sides 9 x 9 1/4" Back 10 x 10"
 Top 9 x 9 1/8" If stays are fitted with nuts or riveted heads rub. Working pressure by rules 108 Material of stays S Area at smallest part 22 1/4 x 7 1/4" Area supported by each stay 100" Working pressure by rules 105 End plates in steam space: Material S Thickness 13/16"
 Pitch of stays 14 1/16" How are stays secured DN Working pressure by rules 104 Material of stays S Area at smallest part 2.87"
 Area supported by each stay 282" Working pressure by rules 109 Material of Front plates at bottom S Thickness 25/32" Material of Lower back plate S Thickness 11/16" Greatest pitch of stays 15" Working pressure of plate by rules 115 Diameter of tubes 3 1/4"
 Pitch of tubes 4 3/8" x 4 9/16" Material of tube plates S Thickness: Front 25/32" Back 23/32" Mean pitch of stays 13.8 Pitch across wide water spaces 14 1/4" Working pressures by rules 107 Girders to Chamber tops: Material iron Depth and thickness of girder at centre 6 x 3/4 (2) Length as per rule 28.7 Distance apart 9 1/8" Number and pitch of Stays in each 24 x 9"
 Working pressure by rules 114 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 —
 Date of Test — 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 —

DUNSMUIR & JACKSON, Limited.

The foregoing is a correct description,

James Fletcher Director Manufacturer.

Dates of Survey } During progress of } work in shops - - }
 while } During erection on } board vessel - - - }
 building }
 See accompanying machinery report

Is the approved plan of boiler forwarded herewith ☒

Total No. of visits 64

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

This Boiler has been built under Special Survey in accordance with the approved plan. The workmanship & material are of good quality, & is now securely fitted on board.

This Report accompanies that of the Machinery

Survey Fee ... £ 4 : 4 : } When applied for, 19
 Travelling Expenses (if any) £ : : } When received, 19

Committee's Minute

GLASGOW 21 NOV 1922

Assigned

See accompanying machinery report.

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

Lloyd's Register

W 374-0068