

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 12. Nov 1920 Last Survey 15. 11. 1922
 Reg. Book. S/S 'Blau Macfarlane' (Number of Visits 64) Gross 6222
 on the Tons Net 3850
 Master Built at Irvine By whom built Yorkshire Dryd Co. Ltd. When built 1922
 Engines made at Glasgow By whom made Dunsmuir & Jackson (S.S.) When made 1922
 Boilers made at Glasgow By whom made Dunsmuir & Jackson (S.S.) When made 1922
 Registered Horse Power Owners Bayne Irvine & Co. Port belonging to Glasgow

MULTITUBULAR BOILERS ~~ON DONKEY~~ DONKEY.—Manufacturers of Steel

(Letter for record S) Total Heating Surface of Boilers 1282 sq ft Is forced draft fitted 910 No. and Description of Boilers one single ended Working Pressure 100 Tested by hydraulic pressure to 200 Date of test 19. 6. 22
 No. of Certificate 1642 Can each boiler be worked separately Yes Area of fire grate in each boiler 31 sq ft No. and Description of safety valves to each boiler 2 Direct Spring Area of each valve 8.29 sq in Pressure to which they are adjusted 105
 Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler 910
 Smallest distance between boilers or uptakes and bunkers or woodwork 6 1/2 Mean dia. of boilers 12.047/64 Length 9.0
 Material of shell plates S Thickness 49/64 Range of tensile strength 2832 Are the shell plates welded or flanged 910
 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 82.25/9 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 + 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 5-8 7/16 bottom 6-0 1/16 Thickness of plates crown 9/16 bottom }
 Description of longitudinal joint welded No. of strengthening rings 9 from Working pressure of furnace by the rules 110 Combustion chamber plates: Material S Thickness: Sides 17/32 Back 9/16 Top 17/32 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 9 rub. Working pressure by rules 108 Material of stays S Area at smallest part 22 1/4 x 7 1/8 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 x 16 How are stays secured DN Working pressure by rules 104 Material of stays S Area at smallest part 28 7/8
 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 + 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 9 non 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 non % 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

UPERHEATER. Type non 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 -- } See accompanying machinery report
 while building } During erection on board vessel -- } 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
 W. Gordon-Maclean
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 21 NOV 1922
 Assigned See accompanying machinery report.

