

REPORT ON BOILERS.

No. 41392.

Date of writing Report 19. 7. 1921 When handed in at Local Office 1. 10. 1921 Port of Glasgow
 Received at London Office WED. OCT. 5 1921
 No. in Survey held at Glasgow Date, First Survey 30. 9. 1919 Last Survey 29/9/1921
 Reg. Book. 18933 on the S/S "Diplomat" (Number of Visits 104) Gross 8240 Net 5255
 Master Built at Glasgow By whom built G. Coumell & Co. Ltd. When built 1921
 Engines made at Glasgow By whom made Dunsinon & Jackson (482) When made 1921
 Boilers made at " By whom made " (482) When made 1921
 Registered Horse Power Owners Blarenk S/S Co. Ltd. Port belonging to Liverpool.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Steel Co of Scotland
 (Letter for record S) Total Heating Surface of Boilers 4680 sq ft Is forced draft fitted No
 Boilers 2 Single Ended Working Pressure 200 Tested by hydraulic pressure to 350 Date of test 6-10-20
 No. of Certificate 15535 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 4068 sq in Pressure to which they are adjusted 205
 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 21 in Mean dia. of boilers 15-9 Length 10-6
 Material of shell plates S Thickness 1/2 Range of tensile strength 20/34 Are the shell plates welded or flanged No
 Descrip. of riveting: cir. seams DR long. seams TR DBS Diameter of rivet holes in long. seams 19/16 Pitch of rivets 10 1/2
 Width of butt straps 23 Per centages of strength of longitudinal joint rivets 84.5% plate 85.7% Working pressure of shell by rules 210 Size of manhole in shell 16 x 12 Size of compensating ring 8 x 1 1/2
 No. and Description of Furnaces in each boiler 3 Corrugated Material S Outside diameter 4-0 Length of plain part top bottom Thickness of plates crown bottom 2 1/32
 Description of longitudinal joint mild No. of strengthening rings Working pressure of furnace by the rules 213 Combustion chamber plates: Material S Thickness: Sides 3/4 Back 3/4 Top 3/4 Bottom 27/32 Pitch of stays to ditto: Sides 9 1/2 + 9 5/16 Back 10 + 8 3/4
 Top 9 1/2 + 9 5/16 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 203 Material of stays S Area at smallest part 1985 Area supported by each stay 87.89 Working pressure by rules 204 End plates in steam space: Material S Thickness 1/4
 Pitch of stays 2 1/4 + 1 5/8 How are stays secured DN Working pressure by rules 212 Material of stays S Area at smallest part 749
 Area supported by each stay 334.6 Working pressure by rules 232 Material of Front plates at bottom S Thickness 1/8 Material of Lower back plate S Thickness 3/32 Greatest pitch of stays 23 1/2 + 13 Working pressure of plate by rules 210 Diameter of tubes 3 1/4
 Pitch of tubes 4 9/16 + 4 1/2 Material of tube plates S Thickness: Front 1/8 Back 7/8 Mean pitch of stays 11 1/4 Pitch across wide water spaces 14 1/4 Working pressures by rules 224 Girders to Chamber tops: Material S Depth and thickness of girder at centre 9 x 13/4 Length as per rule 2.53/4 Distance apart 9 7/16 Number and pitch of Stays in each 2 at 9 3/8
 Working pressure by rules 206 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

UPERHEATER. Type Schmidt Date of Approval of Plan see cul. attached Tested by Hydraulic Pressure to 600
 Date of Test see cul. attached Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yes
 Diameter of Safety Valve 2 Pressure to which each is adjusted 210 Is Easing Gear fitted Yes
 The foregoing is a correct description,
 James Ritchie, Director, Manufacturer.
 Dates of Survey: During progress of work in shops - - - See machinery report attached. Is the approved plan of boiler forwarded herewith Yes
 while building: During erection on board vessel - - - Total No. of visits 104

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 and of the good quality have been securely fitted on board. Plus Rept. accompanying that of the Machinery

Survey Fee ... When applied for, 19
 Travelling Expenses (if any) ... When received, 19
 Charged on Rept.
 W. Gordon-Mitchell
 Engineer Surveyor to Lloyd's Register of Shipping.
 Glasgow 4-OCT 1921
 Assigned See attached machinery report.

Booth
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 Reg. Book
 18933
 S/S
 "Diplomat"
 Glasgow
 G. Coumell & Co. Ltd.
 Dunsinon & Jackson
 Blarenk S/S Co. Ltd.
 Liverpool
 Steel Co of Scotland
 4680 sq ft
 200
 350
 6-10-20
 15535
 63.25 sq ft
 4068 sq in
 205
 21
 15-9
 10-6
 S
 1/2
 20/34
 No
 DR
 TR DBS
 19/16
 10 1/2
 23
 84.5%
 85.7%
 210
 16 x 12
 8 x 1 1/2
 3 Corrugated
 S
 4-0
 2 1/32
 mild
 213
 S
 3/4
 3/4
 3/4
 27/32
 9 1/2 + 9 5/16
 10 + 8 3/4
 nuts
 203
 S
 1985
 87.89
 204
 S
 1/4
 749
 212
 S
 1/8
 210
 3 1/4
 S
 1/8
 7/8
 11 1/4
 14 1/4
 224
 S
 9 x 13/4
 2.53/4
 9 7/16
 2 at 9 3/8
 206
 S
 1/8
 1/8
 210
 2
 19
 19
 W. Gordon-Mitchell
 Glasgow 4-OCT 1921
 See attached machinery report.

Lloyd's Register Foundation
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