

Rpt. 5a.

REPORT ON BOILERS.

No. 36364

WED. OCT. 11. 1916

Received at London Office

WED. 21 MAR. 1917

Date of writing Report 4. 10 1916 When handed in at Survey Office

Port of Glasgow Date, First Survey 20-10-15 Last Survey 11-10-1916

No. in Survey held at Glasgow (Number of Visits 19) Gross 1580.14
Reg. Book. Marine boilers designated 90° B55 (SS "NANTES") Tons Net 822.69

Master Troon Built at Ayr By whom built Arba Stobie & Co. (292) When built 1916

Engines made at Troon By whom made Arba Stobie & Co. (49) When made 1916

Boilers made at Glasgow By whom made Dunsmuir, Jackson & Co. (B55) When made 1916

Registered Horse Power European Gas Co. London Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Dunlop, Spence Colville & Co. Ltd.

(Letter for record S) Total Heating Surface of Boilers 3412 sq ft Is forced draft fitted Yes No. and Description of Boilers 2 Single Ended Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 4-10-16

No. of Certificate 13562 Can each boiler be worked separately Yes Area of fire grate in each boiler 49.7 sq ft No. and Description of safety valves to each boiler 2 Spring loaded Area of each valve 4.91 sq in Pressure to which they are adjusted 185 lb

Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No donkey boiler

Smallest distance between boilers or uptakes and bunkers or woodwork 3-6 Mean dia. of boilers 13-4 1/2 Length 10-9

Material of shell plates S Thickness 13/32 Range of tensile strength 28/32 Are the shell plates welded or flanged No

Description of riveting: cir. seams DR long. seams TRIBBS Diameter of rivet holes in long. seams 3/16 Pitch of rivets 8 3/8

Length of plates width of butt straps 1-6 Per centages of strength of longitudinal joint rivets 90 Working pressure of shell by rules 186 Size of manhole in shell 16x12 Size of compensating ring 6 1/2 x 1 1/8 No. and Description of Furnaces in each boiler 3 Cowgata Material S Outside diameter 3-6 Length of plain part top 33 1/4 bottom 33 1/4 Thickness of plates 188 Combustion chamber

Description of longitudinal joint weld No. of strengthening rings Working pressure of furnace by the rules 188 Material of stays S Diameter at top 9 1/8 x 10 Thickness: Sides 5/8 Back 1 1/16 Top 5/8 Bottom 3/4 Pitch of stays to ditto: Sides 8x9 1/8 Back 9x10

If stays are fitted with nuts or riveted heads Yes Working pressure by rules 182 Material of stays S Diameter at smallest part 9 1/8 x 10 Area supported by each stay 90 Working pressure by rules 198 End plates in steam space: Material S Thickness 1 1/8

Pitch of stays 18x16 3/4 How are stays secured DN Working pressure by rules 186 Material of stays S Diameter at smallest part 5 1/2

Area supported by each stay 201 Working pressure by rules 181 Material of Front plates at bottom S Thickness 1 Material of Lower back plate S Thickness 29/32 Greatest pitch of stays 15x9 Working pressure of plate by rules 210 Diameter of tubes 3 1/4

Pitch of tubes 4 3/8 x 4 7/16 Material of tube plates S Thickness: Front 1 Back 13/16 Mean pitch of stays 11 Pitch across wide water spaces 14 Working pressures by rules 183 Girders to Chamber tops: Material Troon Depth and thickness of girder at centre 9x1 (2) Length as per rule 2-9 1/2 Distance apart 9 1/16 Number and pitch of Stays in each 3 at 7

Working pressure by rules 200 Superheater or Steam chest, how connected to boiler Yes Can the superheater be shut off and the boiler worked separately Yes Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater

Survey request form No. 1701 attached

Is the approved plan of boiler forwarded herewith Yes

Dates of Survey while building During progress of work in shops - - - 1915. Oct 20. 29. 30. 31. 1st. 2nd. 3rd. 4th. 5th. 6th. 7th. 8th. 9th. 10th. 11th. 12th. 13th. 14th. 15th. 16th. 17th. 18th. 19th. 20th. 21st. 22nd. 23rd. 24th. 25th. 26th. 27th. 28th. 29th. 30th. 31st. Total No. of visits 19

During erection on board vessel - - - Aug 3. 11. 15. Sept 1. 5. 15. 26. Oct 2. 4.

Are they fitted with easing gear Yes

The foregoing is a correct description, James Fletcher Director, Manufacturer.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been built under special survey in accordance with the approved plan & the workmanship & material are of good quality. These boilers will be shipped to Troon at which port they will be fitted on board. These boilers have now been securely fitted on board 9/6. 17/3/17

Survey Fee ... £ 10 : 9 : : When applied for, 10/10/1916
Travelling Expenses (if any) £ : : : When received, 12/10/1916

W. London, Prichie
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 10-Oct. 1916
Assigned TRANSMIT TO LONDON

See minute on G.L. Rpt. No. 36768
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