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REPORT ON BOILERS.

No. 38016

Received at London Office

WED. AUG. 7 - 1918

Writing Report 30.7 1918 When handed in at Local Office 191 Port of GLASGOW

Survey held at Glasgow Date, First Survey 20^d Dec 1914 Last Survey 30.7 1918

Book. S/S "Dorgate" (Number of Visits 15) } Gross
 on the S/S "Dorgate" } Net

Built at Sunderland By whom built J & L Thompson Sons Ltd When built 1907

Boilers made at Sunderland By whom made J Dickenson Sons Ltd When made 1907

Boilers made at Glasgow By whom made Dunsmuir Jackson Ltd (3103) When made 1918

Indicated Horse Power Owners Dorgate S/S Co Ltd Port belonging to

TITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~—Manufacturers of Steel Steel Co of Scotland

for record S Total Heating Surface of Boilers 5210[#] Is forced draft fitted No No. and Description of 2 Single Ended

Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 30.7.18

Certificate 14986 Can each boiler be worked separately ✓ Area of fire grate in each boiler 4 1/2[#] No. and Description of

valves to each boiler Area of each valve Pressure to which they are adjusted

Boilers fitted with easing gear In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Minimum distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers 16-4 1/16" Length 11-6"

Material of shell plates S Thickness 1 5/16" Range of tensile strength 28/32 Are the shell plates welded or flanged ✓

Kind of riveting: cir. seams DR long. seams TR, DRS Diameter of rivet holes in long. seams 1 3/8" Pitch of rivets 9 5/8"

Width of butt straps 1-8 1/2" Per centages of strength of longitudinal joint rivets 67.2% Working pressure of shell by

Size of manhole in shell 16 x 12" Size of compensating ring 4 1/4 x 1 5/16" plate 85.7%

No. and Description of Furnaces in each

4 Boregata Material S Outside diameter 3-7" Length of plain part Thickness of plates crown 33/64" bottom

Kind of longitudinal joint weld No. of strengthening rings ✓ Working pressure of furnace by the rules 182 Combustion chamber

Material S Thickness: Sides 1 1/16" Back 1 1/16" Top 1 1/16" Bottom 1 3/16" Pitch of stays to ditto: Sides 10 1/4 x 8 5/8" Back 9 7/8 x 9 1/8"

If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 181 Material of stays S area Diameter at

Area supported by each stay 88.5[#] Working pressure by rules 182 End plates in steam space: Material S Thickness 1 1/16"

How are stays secured DN Working pressure by rules 184 Material of stays S area Diameter at smallest part 4.49"

Area supported by each stay 422[#] Working pressure by rules 183 Material of Front plates at bottom S Thickness 1" Material of

Back plate S Thickness 29/32" Greatest pitch of stays 14 3/4 x 9 9/16" Working pressure of plate by rules 182 Diameter of tubes 3 1/4"

Material of tube plates S Thickness: Front 1" Back 1 3/16" Mean pitch of stays 10 3/32" Pitch across wide

Working pressures by rules 182 Girders to Chamber tops: Material S Depth and thickness of

Length as per rule 36 1/2" Distance apart 9 3/4" Number and pitch of Stays in each 3 at 8 5/8"

Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked

Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

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

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

Area of safety valves to superheater Are they fitted with easing gear

Very request form

2022 attached

DUNSMUIR & JACKSON Limited
The foregoing is a correct description,
James Jackson Manufacturer.
Director

During progress of work in shops 1917. Dec. 20. 1918 Jan. 11. 15. 24. 30. Feb. 14. Mar. 4. 7. 15. 25. Is the approved plan of boiler forwarded herewith Yes

During erection on board vessel Apr. 2. 10. 30. May 29. July 30. Total No. of visits 15

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been built under special survey in accordance with the approved rules & the workmanship & material are of good quality. The boilers are to be shipped to Birkenhead at which they will be fitted on board.

Fee £ 12.-9.- When applied for 2-8-1918

Printing Expenses (if any) £ When received 7-9-1918

W. London Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 6 AUG 1918

TRANSMIT TO LONDON

FRI. 31. JAN. 1919
TUE. 29. JUL. 1919

Lloyd's Register Foundation

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