

REPORT ON BOILERS.

No. 34848

ED. 17. 1915

5a.

Received at London Office

Writing Report 6-2-1915 When handed in at Local Office 191 Port of Glasgow
 Date, First Survey 7/10/14 Last Survey 9-2-1915
 Survey held at Glasgow (Number of Visits 19) Gross Tons }
 Book. S/S Nellie Net Tons }
 on the S/S Nellie
 Built at Holland By whom built Lidgerwood & Co (445) When made 1915
 Made at Boatbridge By whom made Dunsmuir & Jackson, Ltd (344) When made 1915
 Made at Glasgow By whom made Dunsmuir & Jackson, Ltd (344) When made 1915
 Registered Horse Power _____ Owners _____ Port belonging to _____

WATER TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Ed. & Steel Co. Ltd. Glasgow

Serial for record S Total Heating Surface of Boilers 1364 Is forced draft fitted No No. and Description of Boilers one single ended
 Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 1-2-15

Area of fire grate in each boiler 51 No. and Description of valves to each boiler _____
 Area of each valve _____ Pressure to which they are adjusted _____

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler Internal
 they fitted with easing gear _____
 Internal dia. of boilers 12-9 Length 10-6

Material of shell plates S Thickness 1 1/32 Range of tensile strength 28-32 Are the shell plates welded or flanged 870
 Rip. of riveting: cir. seams DR long. seams TR. DBS Diameter of rivet holes in long. seams 1 1/8 Pitch of rivets 4 13/16

Material of plates or width of butt straps 1-5 Per centages of strength of longitudinal joint _____
 rivets 91.37 Working pressure of shell by plate 85.60

No. and Description of Furnaces in each boiler 3 plain Material S Outside diameter 3-2 1/2 Length of plain part _____
 crown 6-9 Thickness of plates 3/4
 bottom 7-1

Description of longitudinal joint weld No. of strengthening rings _____ Working pressure of furnace by the rules 183 Combustion chamber _____
 Material S Thickness: Sides 1 1/16 Back 1 1/16 Top 1 1/16 Bottom 1 5/16 Pitch of stays to ditto: Sides 10-9 Back 9 1/2-9

If stays are fitted with nuts or riveted heads Yuk. Working pressure by rules 182 Material of stays S Diameter at _____
 smallest part 10-8 1/2 Area supported by each stay 90 Working pressure by rules 181 End plates in steam space: Material S Thickness 1 1/16

How are stays secured DN Working pressure by rules 186 Material of stays S Diameter at smallest part 4-7/8
 Area supported by each stay 242 Working pressure by rules 184 Material of Front plates at bottom S Thickness 1 1/32 Material of _____

Material of tubes S Thickness 29/32 Greatest pitch of stays 14 1/2-9 Working pressure of plate by rules 205 Diameter of tubes 3 1/2
 Material of tube plates S Thickness: Front 1 1/32 Back 7/8 Mean pitch of stays 12 1/4 Pitch across wide _____

Working pressures by rules 185 Girders to Chamber tops: Material Iron Depth and thickness of _____
 Length as per rule 29 1/16 Distance apart 8 1/2 Number and pitch of Stays in each 2-10

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 _____
 End plates: Thickness _____ How stayed _____

stiffened with rings _____ Distance between rings _____ Working pressure by rules _____
 Area of safety valves to superheater _____

Working pressure of end plates _____
 Survey request form _____

No. 1586 attached _____
 Are they fitted with easing gear Yes
DUNSMUIR & JACKSON, Limited.
 The foregoing is a correct description,
James Fletcher Director. Manufacturer.

Is the approved plan of boiler forwarded herewith Yes

Dates of Survey 1914 Oct 7-28 Nov 3-9 12-17 27-30 Dec 7-14-18 1915 Jan 4 Total No. of visits 19
 work in shops - 12-14-19-26-27-19
 During erection on board vessel - _____

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 is material and of good quality. Boiler will be placed on board. S. Bowling

Survey Fee _____ When applied for _____ 191 _____
 Traveling expenses (if any) _____ When received _____ 191 _____

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

Committee's Minute **TRANSMIT TO LONDON**
 Assigned GLASGOW 16 FEB. 1915

FRI. JUN. 18. 1915

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