

REPORT ON BOILERS.

No. 39244H

10 OCT. 21. 1919

Date of writing Report 20th Oct 1919 When handed in at Local Office 20/10/19 Port of Glasgow
 No. in Survey held at Glasgow & Lowestoft Date, First Survey 8/11/18 Last Survey 18th Oct 1919
 Reg. Book. on the Main Boiler No. 1680 of S.S. "Fort Lavenock" (Number of Visits 18) Gross Tons 18 Net Tons 18
 Master By whom built Colby Bros Ltd No 104 When built 1920
 Engines made at Paisley By whom made Campbell Calderwood No 968 When made 1919
 Boilers made at Gordale By whom made North Shipbuilding & Engineering Co When made 1919
 Registered Horse Power Fort Shipping Co Ltd Port belonging to Cassidy

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel David Colville Bros.
 (Letter for record S.) Total Heating Surface of Boilers 1486 sq ft Is forced draft fitted No No. and Description of
 Boilers One Single Ended. Working Pressure 130 Tested by hydraulic pressure to 260 Date of test 18/10/19

No. of Certificate 14951 Can each boiler be worked separately Yes Area of fire grate in each boiler 49.75 sq ft No. and Description of
 Safety valves to each boiler 2 Direct Spring Area of each valve 4.06 sq in Pressure to which they are adjusted 135 lbs.
 Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 2' 6" Mean dia. of boilers 13'-0" Length 10'-0"
 Material of shell plates S. Thickness 13/16 Range of tensile strength 28/32 Are the shell plates welded or flanged No
 Description of riveting: cir. seams Lap D.R. long. seams Ball's Hip Rivets Diameter of rivet holes in long. seams 7/16 Pitch of rivets 5 7/8
 Width of butt straps 1'-3" Per centages of strength of longitudinal joint 86 Working pressure of shell by
 rules 130 Size of manhole in shell 12 1/2 x 16 1/2 Size of compensating ring 2'-6 1/2 x 2'-2 1/2 x 13/16 No. and Description of Furnaces in each
 boiler Three plain Material Steel Outside diameter 41 ins Length of plain part 72 ins Thickness of plates 3/8
 Description of longitudinal joint held No. of strengthening rings none Working pressure of furnace by the rules 140 Combustion chamber
 Material S. Thickness: Sides 19/32 Back 9/16 Top 19/32 Bottom 19/32 Pitch of stays to ditto: Sides 9"x10" Back 9 1/4 x 9"
9"x10" If stays are fitted with nuts or riveted heads Yes Working pressure by rules 132 Material of stays Steel Area at
 smallest part 1455 sq in Area supported by each stay 89 in Working pressure by rules 139 End plates in steam space: Material S Thickness 19/16
 No. of stays 18 x 17 1/2 How are stays secured Stubs & Washers Working pressure by rules 131 Material of stays Steel Area at smallest part 43 sq in
 Area supported by each stay 315 sq in Working pressure by rules 141 Material of Front plates at bottom Steel Thickness 3/4 Material of
 rear back plate Steel Thickness 3/4 Greatest pitch of stays 14" x 9" Working pressure of plate by rules 140 Diameter of tubes 3 1/2
 No. of tubes 1478 Material of tube plates S. Thickness: Front 3/4 Back 1/16 Mean pitch of stays 9 1/4 Pitch across wide
 of spaces 14" Working pressures by rules 183 Girders to Chamber tops: Material Steel Depth and thickness of
 girder at centre 7 3/4 x 11/16 x 2 Length as per rule 29 3/4 ins Distance apart 10 ins Number and pitch of Stays in each 1 in at 9 ins
 Working pressure by rules 141 Steam dome: description of joint to shell Yes % of strength of joint Yes
 Material Yes Thickness of shell plates Yes Material Yes Description of longitudinal joint Yes Diam. of rivet holes Yes
 No. of rivets Yes Working pressure of shell by rules Yes Crown plates Yes Thickness Yes How stayed Yes
 SUPERHEATER. Type Yes Date of Approval of Plan Yes Tested by Hydraulic Pressure to Yes
 Test Yes Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yes
 No. of Safety Valve Yes Pressure to which each is adjusted Yes Is Easing Gear fitted Yes

I hereby request form

2155 attached

The foregoing is a correct description,

FOR THE NORTH SHIPBUILDING & ENGINEERING CO., LTD.
(LIMITED LIABILITY BY SHARES)

During progress of work in shops 1918 Apr. 8. 19. 24. 29. May 10. 15. 21. 29. June 4 Is the approved plan of boiler forwarded herewith Yes
 During erection on board vessel Sept 3. 10. 1919. Aug 19. Sept 3. 9. 15. 22. Oct 6. 18 Total No. of visits 18

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
The boiler has been built under special survey.
The workmanship & materials are good.

By Fee £ 4 : 19 : When applied for, 21. 10. 1919
 Travelling Expenses (if any) £ : When received, 28. 10. 1919

Committee's Minute GLASGOW 21 OCT 1919Signed TRANSMIT TO LONDON

FRI. 19 MAR. 1920

Robert H. Grogan & Co. Ltd.
 Engineer Surveyor to Lloyd's Register of Shipping.