

Rpt. 5a.

# REPORT ON BOILERS.

No. 36655

WED. 20 JUN. 1917

Date of writing Report \_\_\_\_\_ When handed in at Local Office \_\_\_\_\_ Received at London Office \_\_\_\_\_  
 No. in Survey held at Glasgow Port of GLASGOW  
 Reg. Book. \_\_\_\_\_ Date, First Survey 29-7-15 Last Survey 24-1-1917  
 on the s/s Camana (Number of Visits 34)  
 Master J. Fisher Built at P. Glasgow By whom built Dunlop, Bremner & Co (Glasgow) Gross 5367 Tons  
 Engines made at \_\_\_\_\_ By whom made Dunlop, Bremner & Co Ltd When built 1918 Net 3457  
 Boilers made at Glasgow By whom made Dunsmuir, Jackson & Co When made 1918  
 Registered Horse Power \_\_\_\_\_ Owners Blue Star Line Ltd When made 1917  
 Port belonging to London

**MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.**—Manufacturers of Steel Solville & Co Steel Co Beardwood

(Letter for record R) Total Heating Surface of Boilers 8535 Is forced draft fitted Yes No. and Description of Boilers 3 Single Ended Working Pressure 200 Tested by hydraulic pressure to 400 Date of test 24-1-17

No. of Certificate 13664 Can each boiler be worked separately \_\_\_\_\_ Area of fire grate in each boiler 49718 No. and Description of safety valves to each boiler \_\_\_\_\_ Area of each valve \_\_\_\_\_ Pressure to which they are adjusted \_\_\_\_\_  
 Are they fitted with easing gear \_\_\_\_\_ 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 \_\_\_\_\_ Mean dia. of boilers 15-12 1/4 Length 12-0

Material of shell plates S Thickness 12 1/4 Range of tensile strength 28/32 Are the shell plates welded or flanged \_\_\_\_\_  
 Descrip. of riveting: cir. seams DR long. seams TR & DBS Diameter of rivet holes in long. seams 13/8 Pitch of rivets 9 1/16

Gap of plates or width of butt straps 1-8 1/2 Per centages of strength of longitudinal joint \_\_\_\_\_ rivets 85314 Working pressure of shell by rules 219 Size of manhole in shell 16x12 Size of compensating ring 4 1/4 x 1 1/2 plate 85314

boiler 3 Corrugated Material S Outside diameter 3-10 Length of plain part \_\_\_\_\_ No. and Description of Furnaces in each Description of longitudinal joint weld No. of strengthening rings \_\_\_\_\_ Working pressure of furnace by the rules 218 Combustion chamber plates: Material S Thickness: Sides 21 1/32 Back 21 1/32 Top 21 1/32 Bottom 21 1/32 Pitch of stays to ditto: Sides 8 5/16 x 8 7/8 Back 9 1/8 x 8

Top 8 3/8 x 8 3/4 If stays are fitted with nuts or riveted heads DN Working pressure by rules 204 Material of stays Iron Diameter at smallest part 1 9/16 Area supported by each stay 43 Working pressure by rules 212 End plates in steam space: Material S Thickness 1 1/4

Pitch of stays 20 1/2 x 16 1/2 How are stays secured DN Working pressure by rules 219 Material of stays S Diameter at smallest part 6-33

Area supported by each stay 317 Working pressure by rules 208 Material of Front plates at bottom S Thickness 1 1/4 Material of Lower back plate S Thickness 3 1/32 Greatest pitch of stays 14 1/4 x 9 1/8 Working pressure of plate by rules 240 Diameter of tubes 2 1/2

Pitch of tubes 3 1/16 x 3 1/16 Material of tube plates S Thickness: Front 1 1/64 Back 13/16 Mean pitch of stays 8-68 Pitch across wide water spaces 13 1/2 Working pressures by rules 208 Girders to Chamber tops: Material Iron Depth and thickness of girder at centre 10 x 1 (2) Length as per rule 2-11 7/32 Distance apart 8 3/4 Number and pitch of Stays in each 3 at 8 3/8

Working pressure by rules 204 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 \_\_\_\_\_

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 \_\_\_\_\_ Are they fitted with easing gear \_\_\_\_\_

Survey request form No. 1702 attached

The foregoing is a correct description,  
Jas. D. Dunsmuir & Jackson, Limited. Manufacturer.  
Jas. D. Dunsmuir

Dates of Survey: During progress of work in shops: 1915 July 29, Aug 9, Sept 30, Oct 20, 1916, Feb 17, Apr 18, May 18. Is the approved plan of boiler forwarded herewith Yes  
 while building: During erection on board vessel: 2-4-10-25, Nov 29, Dec 14, 1917, Jan 8, 1918. Total No. of visits 34

**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 is of good quality. These boilers will be fitted on board at Greenock.

Survey Fee \_\_\_\_\_ £ \_\_\_\_\_  
 Travelling Expenses (if any) £ \_\_\_\_\_  
 To be charged on report \_\_\_\_\_  
 made \_\_\_\_\_  
 received \_\_\_\_\_

Committee's Minute GLASGOW 6-FEB-1917  
 assigned \_\_\_\_\_  
 TRANSMIT TO LONDON

W. Gordon Macleod  
 Engineer Surveyor to Lloyd's Register of Shipping.  
GLASGOW 25 JUN 1918  
 See Ex. No. 17  
 Lloyd's Register  
 TUE 25 JUN 1918