

Rpt. 5a.

## REPORT ON BOILERS.

No. 68837  
FRI. 16 JUN. 1916

Received at London Office

Date of writing Report 13 June 1916 When handed in at Local Office JUN 15 1916 Port of NEWCASTLE ON TYNE  
 No. in Survey held at Newcastle on Tyne Date, First Survey 1<sup>st</sup> Decy 1916 Last Survey 28 Aug 1917  
 Reg. Book. on the Screw Steamer "Beaumaris" L. A. Eltringham 16<sup>th</sup> L<sup>o</sup> h<sup>o</sup> 316 tons Gross 2372  
 Master Built at Newcastle on Tyne By whom built L. A. Eltringham 16<sup>th</sup> L<sup>o</sup> When built 1916  
 Engines made at Newcastle on Tyne By whom made L. A. Eltringham 16<sup>th</sup> L<sup>o</sup> When made 1916  
 Boilers made at Hebburn on Tyne By whom made Palmer's S.S. & C. Co. Ltd. When made 1916  
 Registered Horse Power Owners Jurress Wither 16<sup>th</sup> L<sup>o</sup> Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J. Spencer & Sons Ltd.

(Letter for record S.V.) Total Heating Surface of Boilers 3450 sq. ft. Is forced draft fitted No. No. and Description of

Boilers Two: Cylindrical Single Working Pressure 180 lb Tested by hydraulic pressure to 360 lb Date of test 5/6/16

No. of Certificate 8864 Can each boiler be worked separately Yes Area of fire grate in each boiler 58 sq. ft. No. and Description of

safety valves to each boiler Two Spring Area of each valve 5.94 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 Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 9" Mean dia. of boilers 14' 6 1/2" Length 10' 6"

Material of shell plates Steel Thickness 1 1/8" Range of tensile strength 29 to 35 tons Are the shell plates welded or flanged No.

Descrip. of riveting: cir. seams Lap Double long. seams S.S. Double Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 8" 4" 4 1/2"

Lap of plates or width of butt straps 1 1/8" Per centages of strength of longitudinal joint 88% Working pressure of shell by

rules 183 lb Size of manhole in shell 16" x 12" Size of compensating ring 4" x 1 1/8" No. and Description of Furnaces in each

boiler 3: 8ightons Material Steel Outside diameter 45 1/2" Length of plain part top Thickness of plates crown 9" bottom 7 1/2"

Description of longitudinal joint Weld No. of strengthening rings None Working pressure of furnace by the rules 192 lb Combustion chamber

plates: Material Steel Thickness: Sides 3/32" Back 3/32" Top 3/32" Bottom 7/16" Pitch of stays to ditto: Sides 9 1/2" x 8 1/2" Back 9" x 9"

Top 8 1/2" x 8" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 184 lb Material of stays Steel Diameter at

smallest part 2 1/8" Area supported by each stay 81" Working pressure by rules 225 lb End plates in steam space: Material Steel Thickness 1 1/4"

Pitch of stays 20" x 20" How are stays secured Double nuts Working pressure by rules 185 lb Material of stays Steel Diameter at smallest part 8 1/4"

Area supported by each stay 400" Working pressure by rules 220 lb Material of Front plates at bottom Steel Thickness 1" Material of

Lower back plate Steel Thickness 5/16" Greatest pitch of stays 14 1/2" Working pressure of plate by rules 209 lb Diameter of tubes 3 1/2"

Pitch of tubes 4 1/4" x 4 3/4" Material of tube plates Steel Thickness: Front 1" Back 3/4" Mean pitch of stays 9 1/2" Pitch across wide

water spaces 14" Working pressures by rules 182 lb 222 lb Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 8 1/2" x 1 1/8" Length as per rule 3 1/2" Distance apart 8" Number and pitch of Stays in each 2: 8 1/2"

Working pressure by rules 231 lb Superheater or Steam chest: how connected to boiler None Can the superheater be shut off and the boiler worked

separately 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

The foregoing is a correct description,

J. Cameron

Manufacturer.

Dates of Survey During progress of work in shops -- Dec. 1. 10. 15. 24. Mar. 1. 3. 8. 22. 24. Apr. 3. Is the approved plan of boiler forwarded herewith Yes  
 while building During erection on board vessel -- 10. 19 May. 1. 10. 12. 16. 20. 22. 29. Jun. 5. See Newcastle Report 70199 Total No. of visits 20+

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

These Boilers were built under special survey and the materials and workmanship are good. On completion they were tested as required by the Rules and found tight and sound.

Survey Fee ... £ 10 : 16 : 8. When applied for, JUN 15 1916  
 Travelling Expenses (if any) £ : : When received, 25/7/16

Wm. Austin & Field  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

TUE. SEP. 11 1917.

Assigned



© 2021

Lloyd's Register  
 Foundation