

# REPORT ON BOILERS.

No. 25838

TUES. 15 OCT 1907

Received at London Office

Date of writing Report 19 When handed in at Local Office 4/10/1007 Port of Glasgow  
 No. in Survey held at Glasgow Date, First Survey 2 May Last Survey 22 October 1907  
 Reg. Book. 33 Log the S. Helmsdale (Number of Visits ) Gross Tons Net  
 Master Built at Pt. Glasgow By whom built A Rodger & Co When built 1907  
 Engines made at Glasgow By whom made A Rodger & Co when made 1907  
 Boilers made at Glasgow By whom made Ewing & Lawson (2821) when made 1907  
 Registered Horse Power Owners Port belonging to Cardiff

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel W Beardmore & Co

(Letter for record (S) ) Total Heating Surface of Boilers 796.2 # Is forced draft fitted No No. and Description of

Boilers One single ended Working Pressure 80 lb Tested by hydraulic pressure to 160 lb Date of test 23/8/07

No. of Certificate 9131 Can each boiler be worked separately — Area of fire grate in each boiler 29 # No. and Description of

safety valves to each boiler 2 Direct Spring Area of each valve 8.63 # Pressure to which they are adjusted 85

Are they fitted with easing gear No In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No

Smallest distance between boilers or uptakes and bunkers or woodwork several feet Mean dia. of boilers 10'-0" Length 9'-0"

Material of shell plates steel Thickness 1/2" Range of tensile strength 27532 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams S.P.L long. seams D.B.S. Diameter of rivet holes in long. seams 3/16" Pitch of rivets 4 3/4"

Gap of plates or width of butt straps 9" Per centages of strength of longitudinal joint rivets 97.8 Working pressure of shell by

rules 87 lb Size of manhole in shell 16" x 12" Size of compensating ring Flanged No. and Description of Furnaces in each

boiler 2 plain Material steel Outside diameter 36" Length of plain part top 72" Thickness of plates crown 1/2"

Description of longitudinal joint weld No. of strengthening rings none Working pressure of furnace by the rules 80 Combustion chamber

plates: Material steel Thickness: Sides 1/2" Back 1/2" Top 1/2" Bottom 1/2" Pitch of stays to ditto: Sides 8 3/4 x 9 Back 10 x 9 3/8

Top 8 3/4 x 10 3/8 stays are fitted with nuts or riveted heads nuts Working pressure by rules 82 Material of stays steel Diameter at

smallest part 1.24 Area supported by each stay 92 Working pressure by rules 107 End plates in steam space: Material steel Thickness 1/16"

Pitch of stays 17 1/2 x 13 How are stays secured D. nuts Working pressure by rules 81 Material of stays steel Diameter at smallest part 2.17

Area supported by each stay 260 Working pressure by rules 83 Material of Front plates at bottom steel Thickness 1/16" Material of

lower back plate steel Thickness 1/16" Greatest pitch of stays 13 Working pressure of plate by rules 130 Diameter of tubes 3 1/4"

Pitch of tubes 4 3/8" Material of tube plates steel Thickness: Front 1/16" Back 9/16" Mean pitch of stays 11" Pitch across wide

water spaces 14 Working pressures by rules 85 lb Girders to Chamber tops: Material steel Depth and thickness of

girder at centre 6 x 1/16 x 2 Length as per rule 22 1/2 Distance apart 10 1/2 Number and pitch of Stays in each 1 - 8 3/4

Working pressure by rules 115 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

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,  
EWING & LAWSON, LIMITED Manufacturer.

Dates of Survey During progress of work in shops - - - see accompanying report. Is the approved plan of boiler forwarded herewith Yes  
 while building During erection on board vessel - - - Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been constructed under Special Survey & is of good material & workmanship. It has been fitted on board at this Port.

Survey Fee £ 2 : 2 : } When applied for, 14 OCT 1907 19  
 Travelling Expenses (if any) £ 40 : 7 : 0 } When received, 15 OCT 1907 19

B. Beardmore & Co. Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute Glasgow 14 OCT 1907 Assigned See accompanying report No. 15205 (G.L.B.)

