

## REPORT ON BOILERS.

No. 18942.

15 AUG 1928

Received at London Office

Date of writing Report 28<sup>th</sup> June 1928. When handed in at Local Office 10<sup>th</sup> August 1928. Port of Greenock.

No. in Survey held at Port Glasgow

Date, First Survey 4<sup>th</sup> November 1927Last Survey 8<sup>th</sup> Aug 1928

Reg. Book.

(Number of Visits)

Gross 406  
Net 248

on the S S "ANNIE M. MILLER".

Master

Built at Port Glasgow

By whom built Clyde S B &amp; E Co. Ltd

When built 1928.

Engines made at Port Glasgow

By whom made Clyde S B &amp; E Co. Ltd

When made 1928.

Boilers made at

By whom made

When made 1928.

Registered Horse Power

Owners R. W. Miller &amp; Co. Ltd

Port belonging to Sydney N.S.W.

MULTITUBULAR BOILERS MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel W. Beardmore &amp; Co. Ltd.

(Letter for record S.V.) Total Heating Surface of Boilers 2251<sup>sq</sup> ft. Is forced draft fitted No. No. and Description of

Boilers 1. S. B. Working Pressure 180. Tested by hydraulic pressure to 320. Date of test 6-3-28.

No. of Certificate 1810 Can each boiler be worked separately Area of fire grate in each boiler 64.62<sup>sq</sup> ft. No. and Description ofsafety valves to each boiler 2 Direct spring. Area of each valve 8.295<sup>sq</sup> in. Pressure to which they are adjusted 187.185<sup>psi</sup>.

Are they fitted with easing gear yes. 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 4'-5" Mean dia. of boilers 15'-4 3/32" Length 10'-6 1/2"

Material of shell plates S. Thickness 1 3/32". Range of tensile strength 28/32. Are the shell plates welded or flanged No.

Descrip. of riveting: cir. seams D.R.L. long. seams T.R.D.B.S. Diameter of rivet holes in long. seams 1 5/16" Pitch of rivets 9 5/16"

Lap of plates or width of butt straps 1'-4 5/8". Per centages of strength of longitudinal joint rivets 87.5 plate 86.0 Working pressure of shell by

rules 183.5. Size of manhole in shell 16" x 12". Size of compensating ring 2'-9" x 2'-3" x 1 3/32". No. and Description of Furnaces in each

boiler 3 corrugated. Material S. Outside diameter 4'-3 1/4". Length of plain part top 10 1/2" bottom Thickness of plates crown 5/8" bottom 5/8"

Description of longitudinal joint Weld. No. of strengthening rings Working pressure of furnace by the rules 189.0. Combustion chamber

plates: Material S. Thickness: Sides 1 9/32" Back 1 3/32" Top 1 3/32" Bottom 2 5/32" Pitch of stays to ditto: Sides 7 1/2" x 8 1/2" Back 8 1/2" x 8"

Top 7 1/2" x 8 1/2" If stays are fitted with nuts or riveted heads nuts. Working pressure by rules 186.5. Material of stays S. Area at

smallest part 1.45<sup>sq</sup> in. Area supported by each stay 63.4<sup>sq</sup> in. Working pressure by rules 194. End plates in steam space: Material S. Thickness 1 3/32"Pitch of stays 18 1/2" x 15 1/4". How are stays secured D. NUTS. Working pressure by rules 193. Material of stays S. Area at smallest part 5.24<sup>sq</sup> in.Area supported by each stay 282.1<sup>sq</sup> in. Working pressure by rules 195. Material of Front plates at bottom S. Thickness 1 3/16" Material of

Lower back plate S. Thickness 2 5/32" Greatest pitch of stays 14 1/4" x 8 1/8". Working pressure of plate by rules 185. Diameter of tubes 3 1/4"

Pitch of tubes 4 1/2" x 4 3/8". Material of tube plates S. Thickness: Front 3/16" Back 1/16" Mean pitch of stays 9" x 8 3/4". Pitch across wide

water spaces 14 1/4". Working pressures by rules 204. Girders to Chamber tops: Material S. Depth and thickness of

girder at centre 2'-8 3/4" x 3/4". Length as per rule 2'-4 23/32". Distance apart 8 1/2". Number and pitch of Stays in each 3-4 1/2".

Working pressure by rules 209. Steam dome: description of joint to shell NONE. % of strength of joint

Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type None Date of Approval of Plan Tested by Hydraulic Pressure to

Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

Far and on behalf of THE CLYDE SHIPBUILDING CO. LTD. The foregoing is a correct description.

Manufacturer.

Is the approved plan of boiler forwarded herewith yes.

Total No. of visits

Dates of Survey During progress of work in shops - - while building During erection on board vessel - - -

See Machinery Report

GENERAL REMARKS (State quality of workmanship, opinions as to class, &amp;c.) This boiler has been built

under special survey, in accordance with the Rules and approved plans.

The materials and workmanship are good. The boiler has been securely

fitted on board, and the safety valves adjusted under steam as stated.

Changed on Machy Rpt.

Survey Fee ... £ : : When applied for, 19

Travelling Expenses (if any) £ : : When received, 19

Committee's Minute GLASGOW 14 AUG 1928

Assigned See accompanying report.

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation

W638-0018