

## REPORT ON BOILERS.

Lm Rpt 85671.  
No. 40760

Date of writing Report *5<sup>th</sup> Jan 1921* When handed in at Local Office *7.1.21* Port of *Glasgow*  
 No. in Survey held at *Glasgow* Date, First Survey *30<sup>th</sup> March 1920* Last Survey *30<sup>th</sup> Dec 1920*  
 Reg. Book. on the *Marine Boiler No 3723* (*S/S "Royal Regis"*) (Number of visits *35* plus *4* Gross Tons *4* Net *4*)  
 Master Built at *Lowestoft* By whom built *John Chalmers & Co* When built *1922*  
 Engines made at *Glasgow* By whom made *Yeaman & Baggeen* When made *1922*  
 Boilers made at *Glasgow* By whom made *Jas Neilson & Son Ltd* When made *1920*  
 Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel *Shelley of Scotland.*

(Letter for record *S.*) Total Heating Surface of Boilers *1666 Sq ft* Is forced draft fitted *no* No. and Description of Boilers *One single ended* Working Pressure *180* Tested by hydraulic pressure to *360* Date of test *30/12/20*  
 No. of Certificate *15662* Can each boiler be worked separately ☒ Area of fire grate in each boiler *50.709 sq in* No. and Description of safety valves to each boiler *Two. Spring loaded* Area of each valve *4.9 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 *no*  
 Smallest distance between boilers or uptakes and bunkers or woodwork *18"* *dia.* of boilers *13' 6"* Length *10' 3"*  
 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 *Lap. S.R.* long. seams *DBS. Y.R.* Diameter of rivet holes in long. seams *1 3/16* Pitch of rivets *8 7/8*  
 Lap of plates on width of butt straps *17 1/2* Per centages of strength of longitudinal joint rivets *87.5* Working pressure of shell by rules *182* Size of manhole in shell *16" x 12"* Size of compensating ring *7" x 1 3/32* No. and Description of Furnaces in each boiler *Three plain* Material *Steel* Outside diameter *3' 5 1/2"* Length of plain part *74"* Thickness of plates *1 3/16* crown *1 3/4* bottom *1 3/4*  
 Description of longitudinal joint *held* No. of strengthening rings *none* Working pressure of furnace by the rules *180* Combustion chamber plates: Material *Steel* Thickness: Sides *1 1/32* Back *7/8* Top *1 1/32* Bottom *1 1/32* Pitch of stays to ditto: Sides *7 3/4 x 8 1/2* Back *8 1/2 x 9*  
 Top *7 3/4 x 8 1/2* If stays are fitted with nuts or riveted heads *lugs* Working pressure by rules *180* Material of stays *Steel* Area at smallest part *159 sq in* Area supported by each stay *65.8 sq in* Working pressure by rules *182* End plates in steam space: Material *S* Thickness *1 1/2*  
 Pitch of stays *17 1/4 x 17* How are stays secured *nut & wash* Working pressure by rules *180* Material of stays *Steel* Area at smallest part *52.1 sq in*  
 Area supported by each stay *243 sq in* Working pressure by rules *187* Material of Front plates at bottom *Steel* Thickness *1 1/16* Material of Lower back plate *Steel* Thickness *1 1/16* Greatest pitch of stays *13 3/8 x 9* Working pressure of plate by rules *180* Diameter of tubes *3"*  
 Pitch of tubes *11 1/4 x 1 1/4* Material of tube plates *Steel* Thickness: Front *1 1/16* Back *3/4* Mean pitch of stays *11"* Pitch across wide water spaces *11 3/4* Working pressures by rules *both double 197* Girders to Chamber tops: Material *Steel* Depth and thickness of girder at centre *8 3/4 x 1 1/2* Length as per rule *27 1/2* Distance apart *9 1/2* Number and pitch of Stays in each *4 no at 8 1/2"*  
 Working pressure by rules *208* Steam dome: description of joint to shell % 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 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

Survey request form

No *2404* attached *Glasgow 40447.*

The foregoing is a correct description,

For JAMES NEILSON &amp; SON, LTD.

Manufacturer.

Dates of Survey During progress of *1920 Mar 30 Apr 7.12.19.26 May 4.10.18.24.27.31* Is the approved plan of boiler forwarded herewith *Yes*  
 while work in shops - - - *Jun 3. 7.10.14.17.21.28 July 2.6 Aug 30 Sep 9.16.20 Oct 5.11.18.21.27 Nov 1.5.16.23 Dec 24.30*  
 building During erection on board vessel - - - Total No. of visits *35*

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

The boiler has been built under special survey.

The workmanship and materials are good.

The boiler is being sent to Lowestoft where it will be fitted on board.

See Supplementary Report attached hereto.

Survey Fee ... £ 5 : 11 : } When applied for, *11/1/21*Travelling Expenses (if any) £ : : } When received, *13.1.21*

Committee's Minute

GLASGOW 11 JAN 1921

FRI JUL 28 1922

Assigned

TRANSMIT TO LONDON

*John W. Hegor T.A.E. Farminers*  
 Engineer Surveyor to Lloyd's Register of Shipping.



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Lloyd's Register  
Foundation



Glasgow

Marine Boiler No 3723  
 Built by Messrs Jas Neilson & Son for John Chalmers & Co. Lower Dept.

After the above boiler passed the water test on 30<sup>th</sup> Dec 1921. Mr Neilson reported a defect in the head of one of the furnaces, and on examination it was decided that this furnace be replaced by a new one.

The new furnace has now been fitted and the boiler again tested by water pressure to 360 lbs per sq inch and found satisfactory in every way.

The mark on boiler has now been changed as under,

No 15662
Lloyd's Test
360 lbs
H.P. 180 lbs
P.M.C.A. 7/4/21.

Additional fee £ 5-11/-.

rendered 7/4/21.

Peter W. Hegor.  
 13<sup>th</sup> April 1921.

Dates of Survey:- 1921:- Mar 21, 25 Apr 4, 7.

Number of Visits:- 4.