

REPORT ON BOILERS.

Ln Rpt 85671.
No. 40760

Date of writing Report 5th Jan 1921 When handed in at Local Office 7.1.21 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 30th March Last Survey 30th Dec 1920
 Reg. Book. on the Marine Boiler No 3723 (S/S "Royal Regis") (Number of visits 35 plus 4 Gross Tons Net)
 Master Lowestoff Built at Lowestoff 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 Steel Coy 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 Yes Area of fire grate in each boiler 50.79 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" Mean 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 & R. long. seams DBS. & 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 plate 88.2
 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 crown 3/4" bottom 5/8"
 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 19/32 Back 5/8 Top 19/32 Bottom 19/32 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 nuts Working pressure by rules 180 Material of stays Steel Area at smallest part 15 sq in Area supported by each stay 65.8 sq in Working pressure by rules 182 End plates in steam space: Material S Thickness 1/16
 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 293 sq in Working pressure by rules 187 Material of Front plates at bottom Steel Thickness 19/16 Material of Lower back plate Steel Thickness 13/16 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 13/16 Back 3/4 Mean pitch of stays 11" Pitch across wide water spaces 14 3/4 Working pressures by rules both doubles 197 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8 3/4 x 7 1/2 x 2 Length as per rule 27 1/2 Distance apart 9 1/2 Number and pitch of Stays in each two at 8 1/2"
 Working pressure by rules 203 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 Slorps 40447.

The foregoing is a correct description,
 For JAMES NEILSON & SON, LTD. Manufacturer.
Arch. Dolloch

Dates of Survey while building } During progress of work in shops - - } 1920 Mar 30 Apr 7.12.19.26 May 4.10.18.24.27.31 Is the approved plan of boiler forwarded herewith Yes
 } During erection on board vessel - - - } 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
 Total No. of visits 35

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
The boiler has been built under special survey.
The workmanship and materials are good.
The boiler is being sent to Lowestoff where it will be fitted on board.
See Supplementary Report attached hereto.

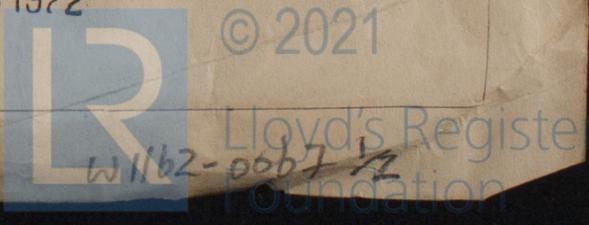
Survey Fee £ 5 : 11 : } When applied for, 11/1/21
 Travelling Expenses (if any) £ : : } When received, 13.1.21

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

Committee's Minute GLASGOW 11 JAN 1921

FRI. JUL 28 1922

Assigned TRANSMIT TO LONDON



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 30th 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
HP. 180 lbs
P.M.C.A. 7/4/21.

Additional fee £ 5-11/-.
rendered 7/4/21.

Peter M. Hegor.
13th April 1921.

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

Number of Visits:- 4.