

REPORT ON BOILERS.

No. 32995
WED. AUG 6 1913

Received at London Office

Date of writing Report 1913 When handed in at Local Office 30/7/1913 Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 10th Jan 1913 Last Survey 17th May 1913

Reg. Book. on the Boiler No. B 189. J. J. "Collairnie" (Number of Visits 8) Gross 435 Tons Net 170

Master Built at Ardrossan By whom built Ardrossan Dry Dock Co. When built 1913

Engines made at Coatbridge By whom made W. V. V. Lidgerwood When made 1913

Boilers made at Glasgow By whom made David Rowan & Co. When made 1913

Registered Horse Power Owners Geo. Blumie & Son Port belonging to Aberdeen

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~—Manufacturers of Steel Steel 10th of Scotland

(Letter for record (5) ✓) Total Heating Surface of Boilers 1354 ✓ Is forced draft fitted No ✓ No. and Description of

Boilers One single ended Working Pressure 180 lb Tested by hydraulic pressure to 360 Date of test 17/5/13

No. of Certificate 12114 Can each boiler be worked separately — Area of fire grate in each boiler 36.5 ✓ No. and Description of

safety valves to each boiler — Area of each valve — Pressure to which they are adjusted —

Are they fitted with easing gear — 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 — Mean dia. of boilers 12.6 ✓ Length 10.0 ✓

Material of shell plates Steel Thickness 1 3/32 Range of tensile strength 28432 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams D. R. L long. seams D. B. S. Diameter of rivet holes in long. seams 1 1/8 Pitch of rivets 7.6875

Lap of plates or width of butt straps 16 3/4 ✓ Per centages of strength of longitudinal joint rivets 93 plate 85 Working pressure of shell by

rules 180 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 3-9 9/16 Length of plain part top 75" bottom 106 Thickness of plates crown 13/16 bottom 13/16 15/16

Description of longitudinal joint weld ✓ No. of strengthening rings 1 ✓ Working pressure of furnace by the rules 205 Combustion chamber

plates: Material steel Thickness: Sides 19/32 Back 19/32 Top 19/32 Bottom 15/16 Pitch of stays to ditto: Sides 7 1/4 x 8 1/2 Back 8 1/8 x 8 1/2

Top 7 1/4 x 9 1/4 stays are fitted with nuts or riveted heads ✓ Working pressure by rules 185 Material of stays steel Diameter at

smallest part 1.48 Area supported by each stay 6.6 Working pressure by rules 180 End plates in steam space: Material steel Thickness 1 5/32

Pitch of stays 18 1/2 x 17 1/4 How are stays secured? ✓ Working pressure by rules 140 Material of stays steel Diameter at smallest part 6.41

Area supported by each stay 320 Working pressure by rules 208 Material of Front plates at bottom steel Thickness 29/32 Material of

Lower back plate steel Thickness 27/32 Greatest pitch of stays 13 Working pressure of plate by rules 180 Diameter of tubes 3 1/2

Pitch of tubes 24 7/8 Material of tube plates steel Thickness: Front 29/32 Back 7/8 Mean pitch of stays 12 3/16 Pitch across wide

water spaces 14 Working pressures by rules 180 lb Girders to Chamber tops: Material steel Depth and thickness of

girder at centre 8 x 7 1/2 x 2 Length as per rule 30 1/2 Distance apart 9 Number and pitch of Stays in each 3 - 7 1/4

Working pressure by rules 180 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

Survey request form

No. 1145 attached

The foregoing is a correct description,

Yours faithfully,

Manufacturer.

Dates of Survey During progress of 1913 Jan 10 Feb 28 March 4 Apr 1 9 24 May 7 Is the approved plan of boiler forwarded herewith Yes

while building During erection on board vessel 17 Total No. of visits 8

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been constructed under Special Survey & is of good materials & workmanship.

Charged Machinery Report.

Survey Fee ... £ : : When applied for, 191

Travelling Expenses (if any) £ : : When received, 191

H Gardner-Smith
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 5- AUG. 1913

Assigned See minute on Gls. Rpt. No. 32995
on machinery. jlb



Lloyd's Register
Foundation

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