

REPORT ON BOILERS

No. 38199.

THU. 3 - OCT. 1918

Received at London Office

pt. 5a.

Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 22nd March 1918 Last Survey 19-8-1918
 Reg. Book. on the Boilers nos 671 & 672 S. S. COLWITH FORCE (Number of Visits 54) Gross 805 Tons Net 344
 Master J. Russell Built at Wokington By whom built P. Williamson & Sons. When built 1918
 Engines made at Coatbridge By whom made Wm Beardmore & Co. (No 489) When made 1918
 Boilers made at Glasgow By whom made A. & W. Dalglisk When made 1918
 Registered Horse Power Owners West Coast Shipping Co. Ltd. Port belonging to Whitehaven

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Steel Works of Scotland & W. & A. Bell & Co. Ltd

Letter for record S Total Heating Surface of Boilers 1790 ft² Is forced draft fitted Yes No. and Description of Boilers 2 Single ended Working Pressure 180 lb Tested by hydraulic pressure to 360 Date of test 28.5.18

No. of Certificate 14310 Can each boiler be worked separately Yes Area of fire grate in each boiler 32.5 ft² No. and Description of Safety valves to each boiler Pair Springloaded Area of each valve Pressure to which they are adjusted 180

Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler Yes

Smallest distance between uptakes and bunkers 4-6" Mean dia. of boilers 10-0" Length 10-0"

Material of shell plates Steel Thickness 27/32" Range of tensile strength 28/32 tons Are the shell plates welded or flanged No

Description of riveting: cir. seams DR long. seams T.R.D.B.S Diameter of rivet holes in long. seams 15/16" Pitch of rivets 7"

Gap of plates or width of butt straps 13 3/4" Per centages of strength of longitudinal joint plate 86.9 Working pressure of shell by rules 86.6

No. and Description of Furnaces in each boiler 2 Plain Material Steel Outside diameter 3-1" Length of plain part 76 1/4" Thickness of plates 23/32"

Description of longitudinal joint Weld No. of strengthening rings 1 Working pressure of furnace by the rules 190 Combustion chamber

Material Steel Thickness: Sides 9/16" Back 19/32" Top 9/16" Bottom 3/4" Pitch of stays to ditto: Sides 8 x 7 1/2" Back 8 x 7 3/4"

Top 8 x 7" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 182 Material of stays Steel Diameter at

Smallest part 5 1/4" Area supported by each stay 6-0" Working pressure by rules 194 End plates in steam space: Material Steel Thickness 7/8"

Pitch of stays 4 x 14" How are stays secured DN+W Working pressure by rules 185 Material of stays Steel Diameter at smallest part 5 1/4"

Area supported by each stay 19 6/8" Working pressure by rules 182 Material of Front plates at bottom Steel Thickness 7/8" Material of

Lower back plate Steel Thickness 7/8" Greatest pitch of stays 13 1/4" Working pressure of plate by rules 230 Diameter of tubes 3 1/4"

Pitch of tubes 4 1/2 x 4 1/2" Material of tube plates Steel Thickness: Front 7/8" Back 23/32" Mean pitch of stays 10 1/8" Pitch across wide

Water spaces 13 1/4" Working pressures by rules 310 Girders to Chamber tops: Material Steel Depth and thickness of

Order at centre 8 x (76 x 2) Length as per rule 2-4 1/16" Distance apart 7" Number and pitch of Stays in each Two 8"

Working pressure by rules 184 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

Plates 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

Survey request form No. 1444 attached

Dates During progress of work in shops: 1918 Mar 22, Apr 9, 20, May 6, 12, 26, June 23, July 13, 27, Aug 10 Is the approved plan of boiler forwarded herewith Yes

Survey while building: 18 Sept 5, 19, 24, 29, Nov 29, 16, 24, Dec 6, 10, 20, 29, 1918 Jan 12, 21, 25, Feb 1, 14, 9, Total No. of visits 54

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Boilers have been built under Special Survey the materials and workmanship are good & the Boilers have now been securely fitted on board & their safety valves adjusted under steam.

Survey Fee ... £ 15 Travelling Expenses (if any) £ 10 When applied for, 1918 When received, 1918

Signature: Jas Baillie Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW, 2-OCT 1918 Assigned See accompanying machinery report.

Signature: Hed. A. Ferguson Glasgow 28/9/18

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