

REPORT ON BOILERS

No. 38199.

THU. 3-OCT. 1918

Received at London Office

of writing Report

When handed in at Local Office

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 Ltd (No 489)*

When made *1918*

Boilers made at *Glasgow*

By whom made *A. & W. Dalglish*

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 of Scotland & Co Ltd*

Letter for record *S* Total Heating Surface of Boilers *1790 ft* 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 ft* 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 *None*

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

Material of shell plates *Steel* Thickness *3/16"* 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 rivets *86.9* Working pressure of shell by plate *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 crown *3/32"* bottom *3/32"*

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

Plates: Material *Steel* Thickness: Sides *9/16"* Back *3/16"* Top *9/16"* Bottom *3/16"* Pitch of stays to ditto: Sides *8x7 1/2"* Back *8x7 3/4"*

Top *8x7"* If stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *182* Material of stays *Steel* Diameter at

Smallest part *5/8"* 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 *4x4"* How are stays secured *DN+W* Working pressure by rules *185* Material of stays *Steel* Diameter at smallest part *5/8"*

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 3/4"* 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 1/2"* 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 *8x(16x2)* 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

The foregoing is a correct description,

A. & W. Dalglish Manufacturers

Is the approved plan of boiler forwarded herewith *Yes*

Dates During progress of work in shops: 1918 Mar 22, Apr 9, 20, May 6, 12, 26, June 23, July 13, 27, Aug 10, 24, 31, 1918

Survey while building: 18 Sept 5, 18, 24, 29, Nov 3, 10, 24, Dec 5, 10, 20, 29, 1918 Jan 12, 21, 25, Feb 1, 14, 9, 1918 Mar 12, 21, 28, 1918

Total No. of visits *54*

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

I 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 ... £ *50* : To be included with machinery

Travelling Expenses (if any) £ *50* : When applied for, 1918

When received, 1918

Committee's Minute *GLASGOW, 2-OCT-1918*

Assigned *See accompanying machinery report.*

James Easthope Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Fred. R. Ferguson Glasgow 28/9/18

Lloyd's Register Foundation

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