

## REPORT ON BOILERS.

No. 33612

Date of writing Report 5th Feb 1914 When handed in at Local Office 7.2.1914 Port of Glasgow  
 No. in Survey held at Pollotshaws Glasgow Date, First Survey 4-4-13 Last Survey 5th Feb 1914  
 Reg. Book. Marine Boiler for S.S. "BERTY" (Number of Visits 26) Gross 43 Tons Net nil  
 Master James Richardson Built at Bowling By whom built Scott & Sons (No 748) When built 1914  
 Engines made at Glasgow By whom made Gauldie & Gillespie (No 121) When made 1914  
 Boilers made at Pollotshaws, Glasgow By whom made A. & W. Dalglisk (No 594) When made 1914  
 Registered Horse Power Owners Robert Henry Munqall Port belonging to Hull

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel D. Colville & Sons.

(Letter for record S.) Total Heating Surface of Boilers 800 ft Is forced draft fitted Yes No. and Description of

Boilers One Single Ended Marine Working Pressure 140 Tested by hydraulic pressure to 280 lb Date of test 5.2.14

No. of Certificate 12531 Can each boiler be worked separately Yes Area of fire grate in each boiler 29 ft No. and Description of

safety valves to each boiler Pair spring loaded Area of each valve 3.98 sq Pressure to which they are adjusted 145 lbs

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 boilers or uptakes and bunkers 5'-6" Inside Mean dia. of boilers 10'-0" Length 9'-0"

Material of shell plates Steel Thickness 23/32 Range of tensile strength 28/32 tons Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams S.R. Lap. long. seams T.R. D.R.S. Diameter of rivet holes in long. seams 7/8" Pitch of rivets 5 1/2"

Top of plates or width of butt straps 13 3/4" Per centages of strength of longitudinal joint 90% Working pressure of shell by

rules 146 lb Size of manhole in shell 16" x 12" Size of compensating ring 7' x 23/32" No. and Description of Furnaces in each

boiler 2 plain Material Steel Outside diameter 38" Length of plain part 67" Thickness of plates 3/8"

Description of longitudinal joint welded No. of strengthening rings one Working pressure of furnace by the rules 164 lb Combustion chamber

plates: Material Steel Thickness: Sides 9/16" Back 7/32" Top 9/16" Bottom 9/16" Pitch of stays to ditto: Sides 8' 7 1/2" Back 8' 7 1/2"

Top 8' 7" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 144 lb Material of stays Steel Diameter at

smallest part 1 1/4" Area supported by each stay 60" Working pressure by rules 165 End plates in steam space: Material Steel Thickness 13/16"

Pitch of stays 14' 13" How are stays secured D. nuts Working pressure by rules 162 Material of stays Steel Diameter at smallest part 3.26"

Area supported by each stay 182" Working pressure by rules 186 lb Material of Front plates at bottom Steel Thickness 13/16" Material of

Lower back plate Steel Thickness 13/16" Greatest pitch of stays 15' Working pressure of plate by rules 195 Diameter of tubes 3 1/4"

Pitch of tubes 4 3/8" x 4 3/8" Material of tube plates Steel Thickness: Front 13/16" Back 7/8" Mean pitch of stays 9 5/8" Pitch across wide

water spaces 13 1/4" Working pressures by rules 145 lb Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 7' x 17/32" Length as per rule 26 27/32" Distance apart 7' Number and pitch of Stays in each 2 @ 8"

Working pressure by rules 156 lb Superheater or Steam chest: how connected to boiler None Can the superheater be shut off and the boiler worked

separately Yes Diameter Yes Length Yes Thickness of shell plates Yes Material Yes Description of longitudinal joint Yes Diam. of rivet

holes Yes Pitch of rivets Yes Working pressure of shell by rules Yes Diameter of flue Yes Material of flue plates Yes Thickness Yes

If stiffened with rings Yes Distance between rings Yes Working pressure by rules Yes End plates: Thickness Yes How stayed Yes

Working pressure of end plates Yes Area of safety valves to superheater Yes Are they fitted with easing gear Yes

Survey request form

No. 1160 attached

The foregoing is a correct description,

A. & W. Dalglisk Manufacturers

Dates of Survey: During progress of work in shops - 1913 Apr 4-11-14-19-23-28 May 7-22-31 June 2 Aug 22 Is the approved plan of boiler forwarded herewith Yes  
 while building: During erection on board vessel - 1914 Jan 7 Feb 5 Total No. of visits 26

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

The workmanship & materials are good. The Boiler has been built under Special Survey, & will be fitted on board in the Glasgow district.

This boiler has been securely fitted aboard the above named vessel and its safety valves adjusted under steam.

Survey Fee ... £ 2 : 13

Travelling Expenses (if any) £ :

When applied for, 191

When received, 191

GLASGOW

10 FEB. 1914

Committee's Minute

Assigned Transmit to London

GLASGOW

9-JUN-1914

See minute on Gls. Rpt. No. 344078.

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