

REPORT ON BOILERS.

No. 48200

25 JUL 1928

Received at London Office

Date of writing Report _____ When handed in at Local Office 21-7-1928 Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 1-2-28 Last Survey 10-4-1928

Reg. Book. " M.V. CLYDEFIELD. " (Number of Visits 58) Gross 6758

on the _____ Tons Net 3949

Built at Glasgow By whom built D. W. Henderson & Co Yard No. 808 When built 1928

Engines made at do By whom made Harland & Wolff Ltd Engine No. 808 When made 1928

Boilers made at do By whom made D & W Henderson & Co Boiler No. 808 When made 1928

Owners Hunting & Son Ltd Port belonging to Newcastle

AIR RESERVOIRS. SEE BELFAST REPORT. NO 9885.

~~VERTICAL DONKEY BOILER.~~

Made at _____ By whom made _____ Boiler No. _____ When made _____ Where fixed _____

Manufacturers of Steel _____

Total Heating Surface of Boiler _____ Is forced draught fitted _____ Coal or Oil fired _____

No. and Description of Boilers _____ Working pressure _____

Tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____

Area of Firegrate in each Boiler _____ No. and Description of safety valves ~~to each boiler~~ **DOUBLE SPRING.**

Area of each set of valves ~~per boiler~~ ^{per rule} **9.8 sq.** Pressure to which they are adjusted **25 ATMOS.** Are they fitted with easing gear

State whether steam from main boilers can enter the donkey boiler _____ Smallest distance between boiler or uptake and bunkers or woodwork _____

Is oil fuel carried in the double bottom under boiler _____ Smallest distance between base of boiler and tank top plating _____

Is the base of the boiler insulated _____ Largest internal dia. of boiler _____ Height _____

Shell plates: Material _____ Tensile strength _____ Thickness _____

Are the shell plates welded or flanged _____ Description of riveting: circ. seams ^{end} _____ long. seams ^{inter} _____

Dia. of rivet holes in ^{circ. seams} _____ ^{long. seams} _____ Pitch of rivets _____ Percentage of strength of circ. seams ^{plate} _____ of Longitudinal joint ^{rivets} _____ ^{combined} _____

Working pressure of shell by rules _____ Thickness of butt straps ^{outer} _____ ^{inner} _____

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat _____ Material _____

Tensile strength _____ Thickness _____ Radius _____ Working pressure by rules _____

Description of Furnace: Plain, spherical, or dished crown _____ Material _____ Tensile strength _____

Thickness _____ External diameter ^{top} _____ ^{bottom} _____ Length as per rule _____ Working pressure by rules _____

Pitch of support stays circumferentially _____ and vertically _____ Are stays fitted with nuts or riveted over _____

Diameter of stays over thread _____ Radius of spherical or dished furnace crown _____ Working pressure by rule _____

Thickness of Ogee Ring _____ Diameter as per rule ^D _____ ^d _____ Working pressure by rule _____

Combustion Chamber: Material _____ Tensile strength _____ Thickness of top plate _____

Radius if dished _____ Working pressure by rule _____ Thickness of back plate _____ Diameter if circular _____

Length as per rule _____ Pitch of stays _____ Are stays fitted with nuts or riveted over _____

Diameter of stays over thread _____ Working pressure of back plate by rules _____

Tube Plates: Material ^{front} _____ ^{back} _____ Tensile strength ^{front} _____ ^{back} _____ Thickness _____ Mean pitch of stay tubes in nests _____

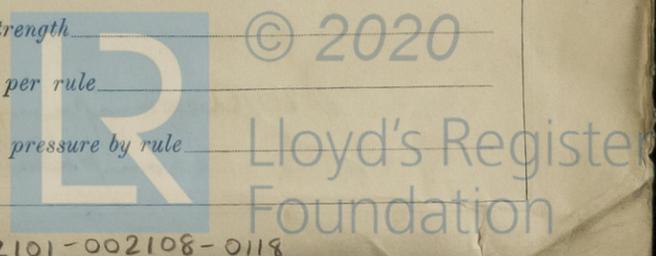
If comprising shell, Dia. as per rule ^{front} _____ ^{back} _____ Pitch in outer vertical rows _____ Dia. of tube holes FRONT ^{stay} _____ ^{plain} _____ BACK ^{stay} _____ ^{plain} _____

Is each alternate tube in outer vertical rows a stay tube _____ Working pressure by rules ^{front} _____ ^{back} _____

Girders to combustion chamber tops: Material _____ Tensile strength _____

Depth and thickness of girder at centre _____ Length as per rule _____

Distance apart _____ No. and pitch of stays in each _____ Working pressure by rule _____



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Crown stays: Material _____ Tensile strength _____ Diameter { at body of stay, _____ or over threads _____ }
 No. of threads per inch _____ Area supported by each stay _____ Working pressure by rules _____

Screw stays: Material _____ Tensile strength _____ Diameter { at turned off part, _____ or over threads _____ } No. of threads per inch _____
 Area supported by each stay _____ Working pressure by rules _____ Are the stays drilled at the outer ends _____

Tubes: Material _____ External diameter { plain _____ stay _____ } Thickness { _____ }
 No. of threads per inch _____ Pitch of tubes _____ Working pressure by rules _____

Manhole Compensation: Size of opening in shell plate _____ Section of compensating ring _____ No. of rivets and diameter of rivet holes _____
 Outer row rivet pitch at ends _____ Depth of flange if manhole flanged _____

Uptake: External diameter _____ Thickness of uptake plate _____

Cross Tubes: No. _____ External diameters { _____ } Thickness of plates _____

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with _____

The foregoing is a correct description,

Dates of Survey while building { During progress of work in shops - - } _____
 { During erection on board vessel - - } _____

Is the approved plan of boiler forwarded herewith (If not state date of approval.) _____

Total No. of visits 68

Manufacturer _____

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

These air receivers have been fitted on board the above vessel and properly secured, and their safety valves adjusted.

A. L. G.
21/7/28

Survey Fee	£	:	When applied for,	19
Travelling Expenses (if any)	£	:	When received,	19

J. S. McDonald
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW 24 JUL 1928**
 Assigned *See accompanying machy Report*

