

# REPORT ON BOILERS

No. 7324

14 DEC 1927

Received at London Office

Writing Report 2-12-1927 When handed in at Local Office 3-12-1927 Port of Glasgow

Survey held at Renfrew Date, First Survey 18-1-27 Last Survey 1-12-1927  
on the Bucket Dredger "Lady Bonnie" (Number of Visits 37) Gross 509 Tons Net 211

Renfrew By whom built Lobnitz & Co. L<sup>d</sup> Yard No. 929 When built 1927  
Renfrew By whom made Lobnitz & Co. L<sup>d</sup> Engine No. 929 When made 1927  
Glasgow By whom made Cochran & Co. L<sup>d</sup> Boiler No. 10322 When made 1927  
Brown Agents for the Colonies Port belonging to Lagos

## VERTICAL DONKEY BOILER.

at Glasgow By whom made Cochran & Co. L<sup>d</sup> Boiler No. 10322 When made 1927 Where fixed 8' hold  
facturers of Steel See Sls Report N<sup>o</sup> 46659.

Heating Surface of Boiler Is forced draught fitted ☒ Coal or Oil fired Coal ☒  
Description of Boilers One - Vertical ☒ Working pressure 100 ☒

by hydraulic pressure to Date of test No. of Certificate  
of Firegrate in each Boiler No. and Description of safety valves to each boiler double - Spring loaded ☒

of each set of valves per boiler <sup>per rule</sup> 3.534 <sup>as fitted</sup> Pressure to which they are adjusted 105 ☒ Are they fitted with easing gear yes ☒

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

work ☒ 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

plates: Material Tensile strength Thickness

the shell plates welded or flanged Description of riveting: circ. seams <sup>end</sup> <sup>inter</sup> long. seams

of rivet holes in <sup>circ. seams</sup> <sup>long. seams</sup> Pitch of rivets Percentage of strength of circ. seams <sup>plate</sup> <sup>rivets</sup> of Longitudinal joint <sup>plate</sup> <sup>rivets</sup> <sup>combined</sup>

working pressure of shell by rules Thickness of butt straps <sup>outer</sup> <sup>inner</sup>

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

ile strength Thickness Radius Working pressure by rules

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

kness External diameter <sup>top</sup> <sup>bottom</sup> Length as per rule Working pressure by rules

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

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

kness of Ogee Ring Diameter as per rule <sup>D</sup> <sup>d</sup> Working pressure by rule

Combustion Chamber: Material Tensile strength Thickness of top plate

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

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

meter of stays over thread Working pressure of back plate by rules

e Plates: Material <sup>front</sup> <sup>back</sup> Tensile strength Thickness Mean pitch of stay tubes in nests

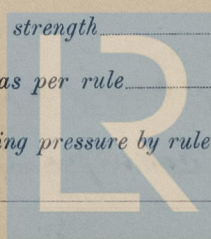
omprising shell, Dia. as per rule <sup>front</sup> <sup>back</sup> Pitch in outer vertical rows <sup>stay</sup> <sup>plain</sup> Dia. of tube holes FRONT <sup>stay</sup> <sup>plain</sup> BACK <sup>stay</sup> <sup>plain</sup>

ach alternate tube in outer vertical rows a stay tube Working pressure by rules <sup>front</sup> <sup>back</sup>

lers to combustion chamber tops: Material Tensile strength

th and thickness of girder at centre Length as per rule

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



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0147381475-0179



**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  
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,

Manu

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

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

Total No. of visits 37

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) This boiler has been securely fitted on board, and the safety valves adjusted under steam.

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

Committee's Minute GLASGOW 13 DEC 1927 TUES. 13 MAR 1928

Assigned See accompanying mach. report.

