

Rpt. 5a.

REPORT ON BOILERS.

No. 45540

Received at London Office

21 APR 1926

Date of writing Report **7th April 1926** When handed in at Local Office **7.4.1926** Port of **Glasgow**

No. in Surrey held at **Renfrew** Date, First Survey **30.6.25** Last Survey **2nd April 1926**

on the **"Lord Willingdon"** (Butter suction dredger). Number of Visits **44** Gross Tons **864** Net Tons **358**

Master Built at **Renfrew** By whom built **W^m Simons & Co** Yard No. **674** When built **1926**

Engines made at **Renfrew** By whom made **W^m Simons & Co** Engine No. **674** When made **1926**

Boilers made at **Renfrew** By whom made **W^m Simons & Co** Boiler No. **674** When made **1926**

Nominal Horse Power Owners **High Commissioners of India** Port belonging to **Glasgow**

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel **Steel Co of Scotland** (Letter for Record **S.**)

Total Heating Surface of Boilers **9934.4** Is forced draught fitted **yes** Coal or Oil fired **oil**

No. and Description of Boilers **4 - multitubular** Working Pressure **180**

Tested by hydraulic pressure to **320** Date of test **2.10.25** No. of Certificate **16942** Can each boiler be worked separately **yes**

Area of Firegrate in each Boiler **67.5** No. and Description of safety valves to each boiler **2 - Spring loaded (high lift)**

Area of each set of valves per boiler **9.5** Pressure to which they are adjusted **185** 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 boilers or uptakes and bunkers or woodwork **Well clear** Is oil fuel carried in the double bottom under boilers **no**

Smallest distance between shell of boiler and tank top plating **Open floors** Is the bottom of the boiler insulated **no**

Largest internal dia. of boilers **14'-10"** Length **11'-9"** Shell plates: Material **S.** Tensile strength **28-32.**

Thickness **1 7/32"** Are the shell plates welded or flanged **no** Description of riveting: circ. seams **J.R.** inter. **hil**

long. seams **T.R.D.B.S.** Diameter of rivet holes in circ. seams **1 5/16"** Pitch of rivets **4.301"** long. seams **1 1/4"** **8 15/16"**

Percentage of strength of circ. end seams plate **69.5** rivets **43** Percentage of strength of circ. intermediate seam plate **hil** rivets **hil**

Percentage of strength of longitudinal joint plate **86** rivets **86.7** combined **88** Working pressure of shell by Rules **180**

Thickness of butt straps outer **59/64"** inner **1 3/64"** No. and Description of Furnaces in each Boiler **3 - Deighton**

Material **S.** Tensile strength **26-30** Smallest outside diameter **46 1/4"**

Length of plain part top **19/32"** Thickness of plates crown **19/32"** Description of longitudinal joint **weld** bottom **hil**

Dimensions of stiffening rings on furnace or c.c. bottom **hil** Working pressure of furnace by Rules **186**

End plates in steam space: Material **S.** Tensile strength **26-30** Thickness **1 7/64"** Pitch of stays **20" x 20 3/4"**

How are stays secured **J.N.** Working pressure by Rules **180**

Tube plates: Material front **S.** Tensile strength **26-30** Thickness **27/32"** back **S.** **26-30** **23/32"**

Mean pitch of stay tubes in nests **9.8"** Pitch across wide water spaces **14" x 7 3/4"** Working pressure front **180** back **hil**

Girders to combustion chamber tops: Material **S.** Tensile strength **28-32** Depth and thickness of girder at centre **8 1/4" x 1 1/2"** Length as per Rule **31 3/4"** Distance apart **9 3/8"** No. and pitch of stays in each **2 - 9 3/4"** Working pressure by Rules **185** Combustion chamber plates: Material **S.** Tensile strength **26-30** Thickness: Sides **11/16"** Back **11/16"** Top **11/16"** Bottom **49/64"**

Pitch of stays to ditto: Sides **9 3/4" x 9 3/8"** Back **9 3/4" x 9"** Top **9 3/4" x 9 3/8"** Are stays fitted with nuts or riveted over **nuts**

Working pressure by Rules **181** Front plate at bottom: Material **S.** Tensile strength **26-30** Thickness **27/32"** Lower back plate: Material **S.** Tensile strength **26-30** Thickness **57/64"**

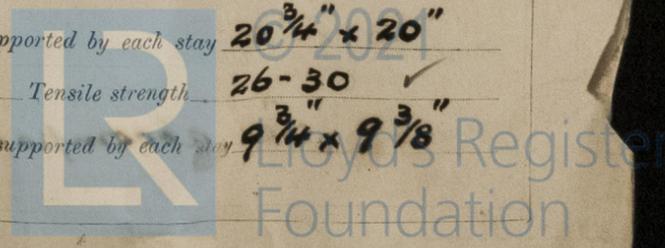
Pitch of stays at wide water space **14 3/4" x 9 3/4"** Are stays fitted with nuts or riveted over **nuts**

Working Pressure **218** Main stays: Material **S.** Tensile strength **28-32**

Diameter At body of stay **3 1/4"** No. of threads per inch **6** Area supported by each stay **20 3/4" x 20"** Over threads **3 1/4"**

Working pressure by Rules **193** Screw stays: Material **S.** Tensile strength **26-30**

Diameter At turned off part **1 3/4"** No. of threads per inch **9** Area supported by each stay **9 3/4" x 9 3/8"** Over threads **1 3/4"**



011047-011056-0266

