

Rpt. 5a.

REPORT ON BOILERS.

No. 25501

Received at London Office

FRI. NOV. 22. 1912

Date of writing Report 14-8-12 When handed in at Local Office 21-11-12 Port of **SUNDERLAND**
 No. in Survey held at **SUNDERLAND** Date, First Survey April 24th Last Survey 13-8-1912
 Reg. Book. **Steel S.S. "Salamanca"** (Number of Visits 11) Gross 3246.68 Tons Net 2016.49
 on the Master **L. J. Daniel** Built at **Sunderland** By whom built **J. Blumer & Co. Ltd. No. 213** When built 1912
 Engines made at **Sunderland** By whom made **North Eastern Marine Eng. Co. Ltd.** when made 1912
 Boilers made at **Sunderland** By whom made **MacBoll & Pollock Ltd. (No. 621)** when made 1912
 Registered Horse Power Owners **Scholefield Steam Shipping Co. Ltd.** Port belonging to **Newcastle**

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR~~ DONKEY. Manufacturers of Steel **John Spencer & Sons Ltd. & MacBoll & Pollock Ltd.**
 (Letter for record (5)) Total Heating Surface of Boilers **668** Is forced draft fitted **No** No. and Description of

Boilers **one single ended** Working Pressure **100** Tested by hydraulic pressure to **200** Date of test **13-8-12**

No. of Certificate **3036** Can each boiler be worked separately ☒ Area of fire grate in each boiler **25** No. and Description of

safety valves to each boiler **Two spring loaded.** Area of each valve **5.94** Pressure to which they are adjusted **103 lbs.**

Are they fitted with easing gear **Yes.** In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler **No.**

Smallest distance between boilers or uptakes and bunkers or woodwork **On main deck.** Mean dia. of boilers **9'-6"** Length **9'-6"**

Material of shell plates **Steel** Thickness **5/8"** Range of tensile strength **28 1/2 - 32** Are the shell plates welded or flanged **No**

Descrip. of riveting: cir. seams **S.R.** long. seams **T.R. lap** Diameter of rivet holes in long. seams **7/8"** Pitch of rivets **3.17"**

Lap of plates on width of butt straps **6"** Per centages of strength of longitudinal joint rivets **77.3** Working pressure of shell by

rules **106** Size of manhole in shell **12" x 16"** Size of compensating ring **5 3/4" x 1 3/16"** No. and Description of Furnaces in each

boiler **two plain** Material **Steel** Outside diameter **3'-0"** Length of plain part top **12"** Thickness of plates crown **1 1/2"** bottom **1 3/4"**

Description of longitudinal joint **welded** No. of strengthening rings **None** Working pressure of furnace by the rules **106** Combustion chamber

plates: Material **Steel** Thickness: Sides **1 1/2"** Back **9/16"** Top **1 1/2"** Bottom **1 1/6"** Pitch of stays to ditto: Sides **9 3/8" x 7 3/4"** Back **9 3/8" x 10"**

Top **7 1/2" x 10 1/2"** If stays are fitted with nuts or riveted heads **multinuts** Working pressure by rules **104** Material of stays **Steel** Diameter at

smallest part **1.450"** Area supported by each stay **790"** Working pressure by rules **103** End plates in steam space: Material **Steel** Thickness **2 3/32"**

Pitch of stays **16" x 18"** How are stays secured **DN.** Working pressure by rules **100** Material of stays **Steel** Diameter at smallest part **4.110"**

Area supported by each stay **2880"** Working pressure by rules **148** Material of Front plates at bottom **Steel** Thickness **2 3/32"** Material of

Lower back plate **Steel** Thickness **2 3/32"** Greatest pitch of stays **12 1/2"** Working pressure of plate by rules **139** Diameter of tubes **3 1/4"**

Pitch of tubes **4 1/2" x 4 3/8"** Material of tube plates **Steel** Thickness: Front **2 3/32"** Back **7/8"** Mean pitch of stays **11 1/8"** Pitch across wide

water spaces **13 1/2"** Working pressures by rules **101** Girders to Chamber tops: Material **Steel** Depth and thickness of

girder at centre **2 @ 5 7/8" x 13/16"** Length as per rule **25 7/8"** Distance apart **10 1/2"** Number and pitch of Stays in each **2 @ 1 1/2"**

Working pressure by rules **107** 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

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

If 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

The foregoing is a correct description,

MACBOLL & POLLOCK LTD.

Manufacturer.

240244

Dates of Survey During progress of work in shops - **Apr. 24, 29, May, 6, June, 3, 18, 24,**
 while building During erection on board vessel - **Jul, 2, 30, 31, Nov, 11, 14**

Is the approved plan of boiler forwarded herewith **Yes**

Total No. of visits **11**

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

The materials and workmanship are good
 The boiler has been made under special survey and has been securely
 fitted on board & safety valves adjusted under steam.

Survey Fee ... £ 2 : 2 : 0

When applied for, 21-11-1912

Travelling Expenses (if any) £ :

When received, 23/11/1912

Henry Lewis Davis William P. Butler
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

FRI. NOV. 22. 1912

Assigned



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 Foundation