

REPORT ON BOILERS.

No. 26235
WED. SEP. 23. 1914

Received at London Office

When handed in at Local Office **22. SEP. 1914** Port of **Sunderland**

No. in Survey held at **Sunderland** Date, First Survey **22 April** Last Survey **21 Sept 1914**
 (Number of Visits **13**) Gross **4210**
 Tons Net **2612**

on the **Donkey boiler for the S/S "PACIFIC".**

Registered Horse Power **Ireland** Built at **Sunderland** By whom built **Sunderland S B & Co Ltd** When built **1914**
 Engines made at **Stockton** By whom made **Blair & Co Ltd** When made **1914**
 Boilers made at **Sunderland** By whom made **Macleod & Pollock Ltd (No. 638)** When made **1914**
 Owners **W. H. Bookermine & Co.** Port belonging to **Skull**

MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY. - Manufacturers of Steel **Thyssen & Co. Eisen Stahlwerke**

Letter for record **(5)** Total Heating Surface of Boilers **1084 sq ft** Is forced draft fitted **no** No. and Description of Boilers **one single ended marine** Working Pressure **100** Tested by hydraulic pressure to **200** Date of test **21-7-14**

No. of Certificate **3235** Can each boiler be worked separately **-** Area of fire grate in each boiler **31 sq ft** No. and Description of Safety valves to each boiler **two spring loaded** Area of each valve **5.9 sq in** Pressure to which they are adjusted **100 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 **18"** Mean dia. of boilers **11'-0"** Length **10'-0"**

Material of shell plates **steel** Thickness **3 1/2"** Range of tensile strength **28 1/2 - 32** Are the shell plates welded or flanged **no**

Description of riveting: cir. seams **S.R.** long. seams **lap T.R.** Diameter of rivet holes in long. seams **15/16"** Pitch of rivets **4 1/8"**

Percentage of strength of longitudinal joint **86** Working pressure of shell by rules **77.2**

No. of manholes in shell **103** Size of manhole in shell **16" x 12"** Size of compensating ring **6" x 3/4"** No. and Description of Furnaces in each boiler **two plain** Material **steel** Outside diameter **3'-3"** Length of plain part **6'-4"** Thickness of plates **9/16"**

Description of longitudinal joint **welded** No. of strengthening rings **none** Working pressure of furnace by the rules **104** Combustion chamber

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

If stays are fitted with nuts or riveted heads **nut & washer** Working pressure by rules **107** Material of stays **steel** Diameter at smallest part **1.010"** Area supported by each stay **77 sq in** Working pressure by rules **105** End plates in steam space: Material **steel** Thickness **3/4"**

How are stays secured **W.N.** Working pressure by rules **105** Material of stays **steel** Diameter at smallest part **2.510"**

Area supported by each stay **244 sq in** Working pressure by rules **107** Material of Front plates at bottom **steel** Thickness **1 1/16"** Material of lower back plate **steel** Thickness **5/8"** Greatest pitch of stays **12 1/4" x 10"** Working pressure of plate by rules **108** Diameter of tubes **3 1/4"**

Material of tube plates **steel** Thickness: Front **1 1/16"** Back **5/8"** Mean pitch of stays **11 1/8"** Pitch across wide

Working pressures by rules **103** Girders to Chamber tops: Material **steel** Depth and thickness of

Length as per rule **25 1/2"** Distance apart **10 1/2"** Number and pitch of Stays in each **2 @ 7 1/2"**

Working pressure by rules **104** 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

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

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,
Macleod & Pollock Ltd. Manufacturer.
James Macleod Managing Director.

Dates During progress of work in shops - - - **1914. Apr. 22. May 15. 22. 26. 29. Jun. 4. 11. 18. 29.** Is the approved plan of boiler forwarded here with **yes**
 while During erection on board vessel - - - **Jul. 10. 21. Sep. 10. 21.** Total No. of visits **13**

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. The boiler has been secured in place (in Stockton) mountings fitted & safety valves adjusted under steam.

Survey Fee ... £ **2 : 2** : When applied for, **22. SEP. 1914**
 Travelling Expenses (if any) £ : : When received, **87/10/14 9.10.14**

Shipping. **Lewis & Davis** William Dutton
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute **FRI. SEP. 25. 1914**

Assigned

W335-0247

