

Rpt. 5a.

Hull Rpt. No 23719  
**REPORT ON BOILERS.**

No. 60255

Received at London Office **MAY 8 1911**

Date of writing Report 19 When handed in at Local Office **MAY 8 1911** Port of **NEWCASTLE ON TYNE**  
No. in Survey held at **South Shields** Date, First Survey **31<sup>st</sup> Oct. 1910** Last Survey **May 12<sup>th</sup> 1911**  
Reg. Book. **( s.s. "Oran" )** (Number of Visits **30**) Gross Tons Net  
**24** Tons on the  
Master Built at **Goole** By whom built **Goole S.B. Co.** When built  
Engines made at **Middlesbrough** By whom made **Richardson Westgarth & Co. Ld.** (E.No. 374) when made **1911**  
Boilers made at **South Shields** By whom made **Messrs Jos. Y. Eltringham & Co. (1687)** when made **1911**  
Registered Horse Power **85** Owners **L. A. Oneta** Port belonging to

**MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.**—Manufacturers of Steel **John Spencer & Son**  
(Letter for record **S.**) Total Heating Surface of Boilers **1600 ft<sup>2</sup>** Is forced draught fitted  
Boilers **One cyl. multi- steel** Working Pressure **180 lbs** Tested by hydraulic pressure to **360 lbs** Date of test **21/1/11**  
No. of Certificate **8079** Can each boiler be worked separately — Area of fire grate in each boiler **51 1/2 ft<sup>2</sup>** No. and Description of safety valves to each boiler  
Area of each valve Pressure to which they are adjusted  
Are they fitted with easing gear In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler  
Smallest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers **13'-1 15/16"** Length **10'-6"**  
Material of shell plates **Steel** Thickness **1 1/16"** Range of tensile strength **29-33 lbs** Are the shell plates welded or flanged **Butt strap**  
Descrip. of riveting: cir. seams **D.R.** long. seams **J.R.** Diameter of rivet holes in long. seams **1 1/8"** Pitch of rivets **8"**  
Lap of plates or width of butt straps **15 3/4"** Per centages of strength of longitudinal joint rivets **86-6%** Working pressure of shell by rules **184 lbs** Size of manhole in shell **16" x 12"** Size of compensating ring **4 1/2" x 1 1/16"** No. and Description of Furnaces in each boiler **3 plain welded** Material **Steel** Outside diameter **3'-3"** Length of plain part top **6'-4 1/2"** Thickness of plates crown **3/4"** bottom **3/4"**  
Description of longitudinal joint **Weld** No. of strengthening rings Working pressure of furnace by the rules **190 lbs** Combustion chamber plates: Material **Steel** Thickness: Sides **1 1/16"** Back **1 1/16"** Top **1 1/16"** Bottom **1"** Pitch of stays to ditto: Sides **9 1/2" x 9 1/2"** Back **9 1/2" x 9 1/2"**  
Top **9 1/2" x 8 1/2"** If stays are fitted with nuts or riveted heads **Nuts** Working pressure by rules **186 lbs** Material of stays **Steel** Diameter at smallest part **1 19/32"** Area supported by each stay **88 sq"** Working pressure by rules **202 lbs** End plates in steam space: Material **Steel** Thickness **1 1/16"**  
Pitch of stays **14" x 19 3/4"** How are stays secured **Nuts & washers** Working pressure by rules **184 lbs** Material of stays **Steel** Diameter at smallest part **2 21/32"**  
Area supported by each stay **336 sq"** Working pressure by rules **195 lbs** Material of Front plates at bottom **Steel** Thickness **1"** Material of Lower back plate **Steel** Thickness **7/8"** Greatest pitch of stays **14 1/4"** Working pressure of plate by rules **183 lbs** Diameter of tubes **3 1/2"**  
Pitch of tubes **4 3/4"** Material of tube plates **Steel** Thickness: Front **1 1/16"** Back **25/32"** Mean pitch of stays **10 11/16"** Pitch across wide water spaces **14 1/2"** Working pressures by rules **191 lbs** Girders to Chamber tops: Material **Steel** Depth and thickness of girder at centre **8" x 1 1/2"** Length as per rule **2'-7 1/2"** Distance apart **8 1/2"** Number and pitch of Stays in each **2 - 9 3/4"**  
Working pressure by rules **182 lbs** Superheater or Steam chest; how connected to boiler — 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,  
**J. J. Whitham** Manufacturer.

Dates of Survey During progress of work in shops — 1910 Oct. 31. Nov. 3. 9. 10. 12. 17. 19. 23. 24. Dec. 1. 6. 8. 12. 19. 21. Is the approved plan of boiler forwarded herewith **Yes**  
while building During erection on board vessel — 1911 Jan. 3. 14. 17. 24. 27. 31. Feb. 2. 21. 27. 28. Mar. 16. May 10. 11. 12. Total No. of visits **26 +**

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

This boiler has been constructed under special survey; the materials & workmanship being sound & good.

Survey Fee ... £ **5 : 7 : 0** When applied for **MAY 8 1911**  
Travelling Expenses (if any) £ : : When received **11/5/11**

**George Hurdock**  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

**TUE. 30 MAY 1911**

Assigned

see minute on  
mdk. Rpt 6796



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Foundation