

REPORT ON BOILERS.

No. 70767
MUN. 18 MAR. 1918

Received at London Office

Port of **NEWCASTLE-ON-TYNE**
 Date, First Survey **15th Aug. 1917** Last Survey **7th March 1918**
 No. in Survey held at **South Shields**
 Reg. Book. **30** on the **S S Yreneglos.**
 Built at **Shields** By whom built **Readhead & Sons Ltd** When built **1918**
 Engines made at **S Shields.** By whom made **Readhead & Sons Ltd** When made **1918.**
 Boilers made at **S Shields** By whom made **Readhead & Sons Ltd** When made **1918**
 Owners **Hain Steamship Co. Ltd** Port belonging to **H Lives**

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR DONKEY.~~ — Manufacturers of Steel **Spencer & Sons Ltd**

Letter for record **5** Total Heating Surface of Boilers **1249 sq ft** Is forced draft fitted **No** No. and Description of Boilers **One Single Ended** Working Pressure **90 lb** Tested by hydraulic pressure to **180 lb** Date of test **24/1/18**
 No. of Certificate **9044** Can each boiler be worked separately **Yes** Area of fire grate in each boiler **33 sq ft** No. and Description of Safety valves to each boiler **Two, direct spring** Area of each valve **7.09 sq in** Pressure to which they are adjusted **95 lb per sq in**
 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** diam. of boilers **10-9"** Length **11-0"**
 Material of shell plates **Steel** Thickness **2 1/32"** Range of tensile strength **28/32 tons** Are the shell plates welded or flanged **No**
 Description of riveting: cir. seams **2 R Lap** long. seams **2 R Lap** Diameter of rivet holes in long. seams **1 1/4"** Pitch of rivets **4 3/8"**
 Gap of plates **5 1/2"** Per centages of strength of longitudinal joint **72.8** Working pressure of shell by rules **71.4**
 Tubes **96 lbs** Size of manhole in shell **16" x 12"** Size of compensating ring **8" x 2 1/32"** No. and Description of Furnaces in each boiler **Two, plain** Material **Steel** Outside diameter **38"** Length of plain part **57"** Thickness of plates **17/32"** crown **2 1/32"** bottom **2 1/32"**
 Description of longitudinal joint **2 R Lap** No. of strengthening rings **None** Working pressure of furnace by the rules **90 lb** Combustion chamber plates: Material **Steel** Thickness: Sides **5/8"** Back **5/8"** Top **5/8"** Bottom **2 1/32"** Pitch of stays to ditto: Sides **10 1/2" x 10"** Back **12" x 12"**
 Top **12" x 10"** If stays are fitted with nuts or riveted heads **Nuts** Working pressure by rule **93 lb** Material of stays **Iron** Diameter at smallest part **1.99 in** Area supported by each stay **144 sq in** Working pressure by rules **103** End plates in steam space: Material **Steel** Thickness **7/8"**
 Pitch of stays **20 x 18** How are stays secured **Nuts** Working pressure by rules **107** Material of stays **Steel** Diameter at smallest part **4.11 in**
 Area supported by each stay **360 sq in** Working pressure by rules **118** Material of Front plates at bottom **Steel** Thickness **23/32"** Material of cover back plate **Steel** Thickness **23/32"** Greatest pitch of stays **12"** Working pressure of plate by rules **123** Diameter of tubes **3 1/4"**
 Pitch of tubes **4 3/8"** Material of tube plate **Steel** Thickness: Front **23/32"** Back **23/32"** Mean pitch of stays **13 1/8"** Pitch across wide water spaces **13 1/2"** Working pressures by rules **107 lb per sq in** Girders to Chamber tops: Material **Steel** Depth and thickness of order at centre **6" x 1 1/2"** Length as per rule **26"** Distance apart **12"** Number and pitch of Stays in each **Two, 10"**
 Working pressure by rules **115 lb** 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
 Pitches 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,
 FOR JOHN READHEAD & SONS LIMITED. Manufacturer.
John Readhead

Is the approved plan of boiler forwarded herewith **See Mchly Report**
 Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) **This Donkey Boiler has been built under special survey, and has been securely fitted on board.**

Report on machinery attached.
 Survey Fee £ **191** When applied for, **191**
 Travelling Expenses (if any) £ **191** When received, **191**
George Murdoch
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute **See fee rpt attached**
 Assigned

FRI. 22 MAR. 1918

