

REPORT ON BOILERS.

No. 71319

Received at London Office **FRI. 11 OCT. 1918**

Date of writing Report **8th Oct. 1918** When handed in at Local Office **10 OCT 1918** Port of **NEWCASTLE-ON-TYNE**
 No. in Survey held at **Newcastle** Date, First Survey **25th Sept. 1914** Last Survey **7th October 1918**
 Reg. Book. on the **S.S. "Wae Haven"** (Number of Visits **16**) Tons { Gross
 Master Built at **Blyth** By whom built **Blyth S. B. Co** 206 When built **1918**
 Engines made at **Glasgow** By whom made **McKie & Baxter** 897 When made **1918**
 Boilers made at **Newcastle** By whom made **Wallsend Slipway & Eng Co** 307 B When made **1918**
 Registered Horse Power Owners **The Shipping Controller** Port belonging to **London**

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel **Schulz & Knauth & J. Spencer & Sons**
 Letter for record **S** Total Heating Surface of Boilers **6006 sq ft** Is forced draft fitted **yes** No. and Description of
 Boilers **Three, single-ended** Working Pressure **180 lbs** Tested by hydraulic pressure to **360 lbs** Date of test **19.2.15**
 No. of Certificate **8760** Can each boiler be worked separately Area of fire grate in each boiler 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' - 7 11/16"** Length **11' - 2"**
 Material of shell plates **Steel** Thickness **1 5/32"** Range of tensile strength **28-32** Are the shell plates welded or flanged **no**
 Descrip. of riveting: cir. seams **S. Lap** long. seams **ABS. Y. Rivet** Diameter of rivet holes in long. seams **1 7/32"** Pitch of rivets **8 5/8"**
 Spacing of plates or width of butt straps **18 3/4"** Per centages of strength of longitudinal joint rivets **86.9** Working pressure of shell by
 plates **189 lbs** Size of manhole in shell **16" x 12"** Size of compensating ring **McKie's** No. and Description of Furnaces in each
 Boiler **3. Molisons** Material **Steel** Outside diameter **43 1/2"** Length of plain part top **15"** Thickness of plates crown **9"**
 Description of longitudinal joint **Welded** No. of strengthening rings Working pressure of furnace by the rules **202 lbs** Combustion chamber
 Plates: Material **Steel** Thickness: Sides **2 1/32"** Back **5/8"** Top **2 1/32"** Bottom **1 5/16"** Pitch of stays to ditto: Sides **9" x 9"** Back **8 5/8" x 8 1/2"**
 Top **9 1/2" x 8 1/2"** If stays are fitted with nuts or riveted heads **nuts** Working pressure by rules **185 lbs** Material of stays **Steel** Diameter at
 Smallest part **2.03"** Area supported by each stay **80.75 sq in** Working pressure by rules **225 lbs** End plates in steam space: Material **Steel** Thickness **1 3/32"**
 Pitch of stays **20" x 20"** How are stays secured **S. N.** Working pressure by rules **183 lbs** Material of stays **Steel** Diameter at smallest part **7.24"**
 Area supported by each stay **400 sq in** Working pressure by rules **188 lbs** Material of Front plates at bottom **Steel** Thickness **1"** Material of
 Lower back plate **Steel** Thickness **7/8"** Greatest pitch of stays **14"** Working pressure of plate by rules **197 lbs** Diameter of tubes **2 3/4"**
 Pitch of tubes **4" x 4"** Material of tube plates **Steel** Thickness: Front **1"** Back **1 3/16"** Mean pitch of stays **8"** Pitch across wide
 Water spaces **13 1/2"** Working pressures by rules **197 lbs** Girders to Chamber tops: Material **Steel** Depth and thickness of
 Order at centre **7 5/8" x 1 1/2"** Length as per rule **29 3/32"** Distance apart **9 1/2"** Number and pitch of Stays in each **2 - 8 1/2"**
 Working pressure by rules **180 lbs** 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
 Plates ☒ 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 ☒

FOR THE WALLSEND SLIPWAY & ENGINEERING CO. LIMITED.

The foregoing is a correct description,

W. Kain

Manufacturer.

Dates During progress of work in shops: 1914 Feb. 25, 30, Oct. 8, 15, 26, 29, Nov. 17, Dec. 2, 16 Is the approved plan of boiler forwarded herewith **yes**
 Survey while building: 1915 Jan. 7, 13, 26, Feb. 5, 19, 1918 Oct. 7. Total No. of visits **16**

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) **These main boilers have been constructed under special survey & the materials & workmanship are sound & good. they are now being fitted in the above vessel under British Corporation survey.**

Survey Fee ... £ **17:5:9** When applied for, **7/11/1918**
 Travelling Expenses (if any) £ ... When received, **30/11/1918**

Charles Cooper per **Thomas Field**
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

FRI. 13 DEC. 1918

Assigned

L. M. B. 11.18

015039 - 015053 - 0335

MACHINERY CERTIFICATE
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Lloyd's Register
 Foundation