

REPORT ON BOILERS.

No. 18844

25 APR 1928

Received at London Office

of writing Report **24-3-28** When handed in at Local Office **20th April 1928** Port of **Greenock**
 No. in Survey held at **Greenock** Date, First Survey **15th February 1924** Last Survey **18th April 1928**
 No. of Book. **T/S MV "Athelqueen"** (Number of Visits) Gross Tons Net Tons
 on the **Greenock**
 Built at **A Glasgow** By whom built **Hamilton & Co (400)** When built **1928**
 Engines made at **Greenock** By whom made **John & Kincaid & Co (122)** When made **1928**
 Boilers made at **ditto** By whom made **ditto** When made **1928**
 Registered Horse Power **1** Owners **United Molasses Co Ltd** Port belonging to **London**

MULTITUBULAR BOILERS **Donkey**, AUXILIARY **Donkey** — Manufacturers of Steel **The Phoenix, Eisenhüttenwerke**
Wulffow Berg- & Eisenwerk

Letter for record **S** Total Heating Surface of Boilers **1823 sq ft** Is forced draft fitted **assisted** No. and Description of Boilers **one Single Ended** Working Pressure **180** Tested by hydraulic pressure to **320** Date of test **27.10.27**
 No. of Certificate **1490** Can each boiler be worked separately **yes** Area of fire grate in each boiler **0.25 sq ft** No. and Description of Safety valves to each boiler **Double Spring** Area of each valve **4.04 sq in** Pressure to which they are adjusted **185**
 Are they fitted with easing gear **yes** 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 **3-6"** Mean dia. of boilers **13-6"** Length **11-0"**
 Material of shell plates **S** Thickness **1 1/8"** Range of tensile strength **28/32** Are the shell plates welded or flanged **-**
 Descrip. of riveting: cir. seams **DR** long. seams **TR & DBS** Diameter of rivet holes in long. seams **13/16"** Pitch of rivets **8 3/8"**
 Width of butt straps **1 3/4"** Per centages of strength of longitudinal joint **90.5%** Working pressure of shell by rules **184** Size of manhole in shell **16 1/2 x 20 1/2"** Size of compensating ring **2-11 x 2-4 x 13/16"** No. and Description of Furnaces in each boiler **3 corrugated** Material **S** Outside diameter **3-4 1/4"** Length of plain part **15 1/2"** Thickness of plates **1 1/2"**
 Description of longitudinal joint **weld** No. of strengthening rings **1** Working pressure of furnace by the rules **182** Combustion chamber plates: Material **S** Thickness: Sides **2 1/32"** Back **2 1/32"** Top **2 1/32"** Bottom **2 1/32"** Pitch of stays to ditto: Sides **9 x 9 1/4"** Back **8 1/2 x 9"**
 Top **9 x 8 1/2"** If stays are fitted with nuts or riveted heads **nuts** Working pressure by rules **183** Material of stays **S** Area at smallest part **43.203 sq in** Area supported by each stay **46.5 sq in** Working pressure by rules **198** End plates in steam space: Material **S** Thickness **1 3/32"**
 Pitch of stays **18 1/2 x 18 1/2"** How are stays secured **DN & W** Working pressure by rules **181** Material of stays **S** Area at smallest part **6.1 sq in**
 Area supported by each stay **342.25 sq in** Working pressure by rules **196** Material of Front plates at bottom **S** Thickness **1"** Material of Lower back plate **S** Thickness **2 1/32"** Greatest pitch of stays **14"** Working pressure of plate by rules **184** Diameter of tubes **3"**
 Pitch of tubes **4 1/16 x 4 3/16"** Material of tube plates **S** Thickness: Front **1"** Back **2 1/32"** Mean pitch of stays **10-8"** Pitch across wide water spaces **14"** Working pressures by rules **184** Girders to Chamber tops: Material **S** Depth and thickness of girder at centre **9 1/2 x 7 1/8 (2)** Length as per rule **37.62"** Distance apart **8 1/2"** Number and pitch of Stays in each **3 at 9"**
 Working pressure by rules **182** Steam dome: description of joint to shell **-** % of strength of joint **-**

Diameter _____ Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet holes _____
 Pitch of rivets _____ Working pressure of shell by rules _____ Crown plates _____ Thickness _____ How stayed _____
 SUPERHEATER. Type _____ Date of Approval of Plan _____ Tested by Hydraulic Pressure to _____
 Date of Test _____ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler _____
 Diameter of Safety Valve _____ Pressure to which each is adjusted _____ Is Easing Gear fitted _____

FOR JOHN G. KINCAID & COY. LIMITED
 The foregoing is a correct description,
Lib Carter DIRECTOR Manufacturer.

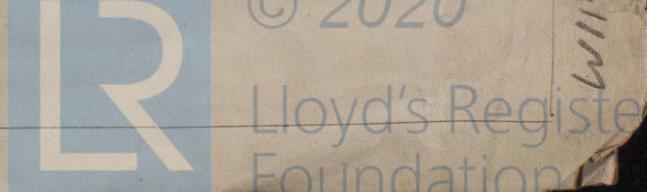
Dates of Survey: During progress of work in shops - - - Is the approved plan of boiler forwarded herewith **yes**
 while building: During erection on board vessel - - - Total No. of visits **1**

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) **This boiler has been built under special survey in accordance with the approved plan & the workmanship & material are of good quality it is now securely fitted on board. This report accompanies that of the M.V. "Athelqueen" (Duplicate of N 21. Greenock Reg. No 18495).**

Survey Fee £ _____ When applied for, _____ 19 _____
 charged on M.V. *Athelqueen* When received, _____ 19 _____

Committee's Minute **GLASGOW 24 APR 1928**
 Assigned **See accompanying mach. report.**

J. G. Kincaid
 Engineer Surveyor to Lloyd's Register of Shipping.



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