

REPORT ON BOILERS.

No. 15456

28 JUL 1927 17 SEP 1927

Received at London Office

Port of **Grimby**
 Date, First Survey **28th March** Last Survey **15th July 1927**
 No. in Survey held at **LINCOLN**
 Date, First Survey **28th March** Last Survey **15th July 1927**
 Reg. Book. **Donkey Boilers for The Plychwood S. B. Co. Yard**
 (Number of Visits **10**)
 Tons **Gross**
 Net **14**
 Master **PACIFIC RELIANCE** When built **1927**
 Built at **Glasgow** By whom built **PACIFIC RELIANCE**
 Engines made at **Lincoln** By whom made **Babcock & Wilcox Ltd.** When made **1927 - July**
 Boilers made at **Lincoln** By whom made **Babcock & Wilcox Ltd.** When made **1927 - July**
 Registered Horse Power **Contract no. 32/4501, Locomotive No. 84/51765.** Port belonging to **London**

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel **Parkgate & S. Co.**

Letter for record **One, Clarkson Type** Total Heating Surface of Boilers **400 Sq. Ft.** Is forced draft fitted **no** No. and Description of Boilers **One, Clarkson Type** Working Pressure **100 lbs** Tested by hydraulic pressure to **200 lbs** Date of test **24-5-27**
 No. of Certificate **213** Can each boiler be worked separately **✓** Area of fire grate in each boiler **Oil Fired** No. and Description of safety valves to each boiler **One 2" Double Lifting** Area of each valve **3.14** Pressure to which they are adjusted **not adjusted**
 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 **—** Mean dia. of boilers **5'-0"** Length **8'-7 3/8"**
 Material of shell plates **M.S.** Thickness **7/16"** Range of tensile strength **28/32** Are the shell plates welded or flanged **NO**
 Descrip. of riveting: cir. seams **Single Lap** long. seams **Double Butt** Diameter of rivet holes in long. seams **13/16"** Pitch of rivets **3" Long 2 1/4" Circ.**
 Lap of plates or width of butt straps **9 1/2"** Per centages of strength of longitudinal joint **122%** Working pressure of shell by rules **148 lbs** Size of manhole in shell **6" x 4"** Size of compensating ring **2 1/2 x 3/8"** No. and Description of Furnaces in each boiler **One Oil Fired** Material **M.S.** Outside diameter **49 1/8"** Length of plain part **88 1/4"** Thickness of plates **13/16"**
 Description of longitudinal joint **—** No. of strengthening rings **✓** Working pressure of furnace by the rules **✓** Combustion chamber plates: Material **M.S.** Thickness: Sides **—** Back **—** Top **—** Bottom **—** Pitch of stays to ditto: Sides **—** Back **—**
 Top **—** If stays are fitted with nuts or riveted heads **—** Working pressure by rules **—** Material of stays **—** Area at smallest part **—** Area supported by each stay **—** Working pressure by rules **—** End plates in steam space: Material **M.S.** Thickness **5/8"**
 Pitch of stays **—** How are stays secured **—** Working pressure by rules **—** Material of stays **—** Area at smallest part **—**
 Area supported by each stay **—** Working pressure by rules **—** Material of Front plates at bottom **—** Thickness **—** Material of Lower back plate **—** Thickness **—** Greatest pitch of stays **—** Working pressure of plate by rules **—** Diameter of tubes **3 1/4"**
 Pitch of tubes **7" Long** Material of tube plates **M.S.** Thickness: Front **—** Back **—** Mean pitch of stays **—** Pitch across wide water spaces **—** Working pressures by rules **—** Girders to Chamber tops: Material **—** Depth and thickness of girder at centre **—** Length as per rule **—** Distance apart **—** Number and pitch of Stays in each **—**
 Working pressure by rules **—** 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 **—**

UPERHEATER. 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 **—**

(Annual Request)

The foregoing is a correct description,
Prof. Babcock & Wilcox Ltd. Manufacturer.

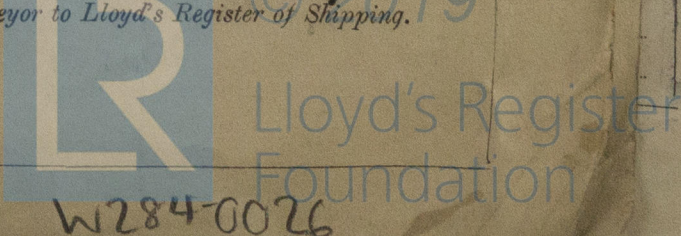
Dates of Survey **During progress of 1927: Mar 28, Apr 1, 12, May 5, 12, 20, Jun 21, 28, July 15** Is the approved plan of boiler forwarded herewith **no** looks manager
 while building **During erection on board vessel - - -** Total No. of visits **10**

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) **This Donkey Boiler has been built under special survey and in accordance with the approved plans. The materials and workmanship are good & the case is eligible for notation when fitted in a clamped vessel.**

Survey Fee ... £ **4 : 4** When applied for, **16/6**
 Travelling Expenses (if any) £ **3 : 5** When received, **1/9/27**

Committee's Minute **TUES. 20 SEP 1927**
 Assigned **See G.L.S. 1st Pt. No. 47018**

Engineer Surveyor to Lloyd's Register of Shipping.



W284-0026