

REPORT ON BOILERS.

No. 5311

Received at London Office

Date of writing Report **Apr. 29th. 22** When handed in at Local Office **1921** Port of **Hong Kong**
 No. in Survey held at **Hong Kong** Date, First Survey **10-1-21** Last Survey **Apr. 28th. 1922**
 Reg. Book. on the **Steel Screw Steamer "PLANORBIS"** (Number of Visits **20**) Gross **5818.86**
 Tons Net **3491.36**
 Master **Built at Hong Kong** By whom built **HongKong & Whampoa Dock Co. Ltd.** When built **1922**
 Engines made at **Hong Kong** By whom made **HongKong & Whampoa Dock Co. Ltd.** When made **1922**
 Boilers made at **Hong Kong** By whom made **HongKong & Whampoa Dock Co. Ltd.** When made **1922**
 Registered Horse Power **517** Owners **Anglo-Saxon Petroleum Co. Ltd.** Port belonging to **Hong Kong**

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel **Wm. Beardmore & Co.**

Letter for record **28/9/20** Total Heating Surface of Boilers **1228.7 sq. ft.** Is forced draft fitted **No** No. and Description of
 Boilers **One Cylindrical Multitubular** Working Pressure **120 lbs.** Tested by hydraulic pressure to **230 lbs.** Date of test **7-12-21**
 No. of Certificate **128** Can each boiler be worked separately **Yes** Area of fire grate in each boiler **33.3 sq. ft.** No. and Description of
 Safety valves to each boiler **Two 2" spring loaded** Area of each valve **3.1416 sq. in.** Pressure to which they are adjusted **120 lbs.**
 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 **5 ft Up. Dk.** Mean dia. of boilers **11'-6"** Length **11'-3/4"**
 Material of shell plates **Steel** Thickness **3/4"** Range of tensile strength **28-32 Tons** Are the shell plates welded or flanged **No**
 Description of riveting: cir. seams **double lap** long. seams **Triple Butt** Diameter of rivet holes in long. seams **15/16"** Pitch of rivets **5, 11/16"**
 Width of butt straps **14 3/4"** Per centages of strength of longitudinal joint **96.5 %** Working pressure of shell by
 Rules **135 lbs.** Size of manhole in shell **16" x 12"** Size of compensating ring **30" x 34" x 3/4"** No. and Description of Furnaces in each
 Boiler **Two Deighton** Material **Steel** Outside diameter **44 1/4"** Length of plain part **top - bottom -** Thickness of plates **13/32"**
 Description of longitudinal joint **Welded** No. of strengthening rings **-** Working pressure of furnace by the rules **141 lbs.** Combustion chamber
 Material **Steel** Thickness: Sides **19/32"** Back **19/32"** Top **19/32"** Bottom **3/4"** Pitch of stays to ditto: Sides **7 1/8" x 8 1/8"** Back **7 1/8" x 8 1/8"**
 Nuts on marginal & girder stays remainder **8 1/8" x 8 1/8"** If stays are fitted with nuts or riveted heads riveted **Working pressure by rules B. 129 lbs. T. 127 lbs.** Material of stays **Steel** Diameter at
 Smallest part **1.23"** Area supported by each stay **B. 62.5 sq. in. T. 71.2 sq. in.** Working pressure by rules **B. 159 lbs. T. 142 lbs.** End plates in steam space: Material **Steel** Thickness **7/8"**
 How are stays secured **Nuts & washers** Working pressure by rules **122 lbs.** Material of stays **Steel** Diameter at smallest part **2.16"**
 Area supported by each stay **298 sq. in.** Working pressure by rules **132 lbs.** Material of Front plates at bottom **Steel** Thickness **25/32"** Material of
 Over back plate **Steel** Thickness **11/16"** Greatest pitch of stays **13"** Working pressure of plate by rules **B. 134 lbs.** Diameter of tubes **3"**
 Pitch of tubes **4 1/8" x 4 1/4"** Material of tube plates **Steel** Thickness: Front **25/32"** Back **21/32"** Mean pitch of stays **12 3/8" x 8 1/8"** Pitch across wide
 End spaces **13 1/2"** Working pressures by rules **W. 140 lbs. T. 149 lbs.** Girders to Chamber tops: Material **Steel** Depth and thickness of
 1922 **7" x 3/4" double** Length as per rule **32 1/4"** Distance apart **8 1/4"** Number and pitch of Stays in each **Three 8 1/8"**
 Working pressure by rules **133 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
- 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 **-**
HONGKONG & WHAMPOA DOCK CO., LTD.
 The foregoing is a correct description,

Date of survey **January 10th. 1921** to **April 28th. 1922**
 During progress of work in shops **-**
 During erection on board vessel **-**

Is the approved plan of boiler forwarded herewith **-**Total No. of visits **20**GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) **The workmanship is good.**

Noted for coal or oil fuel, boiler fixed in upper deck.

Thickness of safety valves washers: **3/8"** both

IDENTIFICATION MARKS ON BOILER:—

No. 128 HKG.
 LLOYD'S TEST
 230 lbs.
 W.P. 120 lbs.
 7-12-21
 T. S. M.

Rpt. 4
 Survey Fee ... **£67.00**

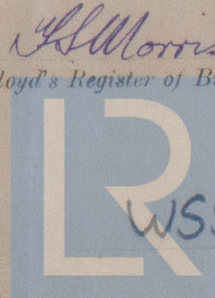
Travelling Expenses (if any) **£**

When applied for, **28/4 1922**
 When received, **See on 191**

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

Committee's Minute

Signed



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 Lloyd's Register
 Foundation