

REPORT ON BOILERS.

No. 5335

MON. 24 JUL. 1922

Received at London Office

Report of Survey June 3rd. 1922 When handed in at Local Office 101 Port of Hong Kong

No. in Survey held at Hong Kong Date, First Survey 10-1-21 Last Survey May 31st. 1922

Reg. Book. on the Steel Screw Steamer "PLEIODON" (Number of Visits 20) Gross 5818.86 Tons Net 3491.36

Master Built at Hong Kong By whom built Hong Kong & Whampoa Dock Co. Ltd. When built 1922

Engines made at Hong Kong By whom made Hong Kong & Whampoa Dock Co. Ltd. When made 1922

Boilers made at Hong Kong By whom made Hong Kong & 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 \square 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 22/4/22

No. of Certificate 132 Can each boiler be worked separately Yes Area of fire grate in each boiler 33.3 \square No. and Description of Safety valves to each boiler Two 2" spring loaded Area of each valve 3.1416 \square 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 Boiler on

Smallest distance between boilers or pipes and bunkers or woodwork 5 ft. Up. Dk. Mean dia. of boilers 11'-6" Length 11'-4"

Material of shell plates Steel Thickness 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 plates or width of butt straps 14 1/2" Per centages of strength of longitudinal joint rivets 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" plate 83.6 %

No. and Description of Furnaces in each boiler Two Daington Material Steel Outside diameter 44 1/2" Length of plain part top - bottom - Thickness of plates crown 13/32" bottom -

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 1/4" Pitch of stays to ditto: Sides 7 1/8" x 8 5/8" Back 7 1/8" x 8 1/2"

Nuts on marginal & girder stays remainder S. 129 lbs. B. 127 lbs. T. 171 lbs. Material of stays Steel Diameter at smallest part 1.23" Area supported by each stay B. 63.6 Working pressure by rules B. 159 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 \square Working pressure by rules 132 lbs Material of Front plates at bottom Steel Thickness 25/32" Material of lower back plate Steel Thickness 11/16" Greatest pitch of stays 13" Working pressure of plate by rules B. 134 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 1/2" Pitch across wide

Working pressures by rules Back Nest 140 lbs. W. Space 149" Girders to Chamber tops: Material Steel Depth and thickness of

Order at centre 7" x 1/2" 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

es - 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 -

HONG KONG & WHAMPOA DOCK CO., LTD.
The foregoing is a correct description,

R. H. Dyer Manufacturer.

4" Dates During progress of January 10th. 1921 Is the approved plan of boiler forwarded herewith NO

Survey work in shops - - - to

while During erection on May 31st. 1922 Total No. of visits 20

Building board vessel - - -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The workmanship is good.

Not fitted for coal or oil fuel, boiler fixed in upper deck.

Thickness of safety valves washers:- 3/8" both.

IDENTIFICATION MARKS ON BOILER:-

No. 132 HKG.
LLOYD'S TEST.
230 lbs.
W.P. 120 lbs.
22-4-22
T.S.M.

Rpt. 4. Survey Fee ... \$66.00 : When applied for. 31/5 1922

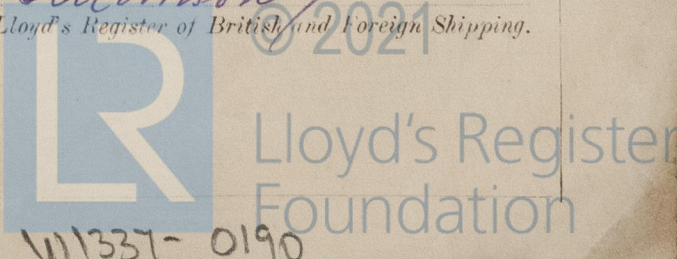
Travelling Expenses (if any) £ : : When received, 14/6/22 1922

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

Committee's Minute

FRI JUL 28 1922

Assigned



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