

REPORT ON BOILERS.

No. 5284

Received at London Office MON. 1 MAY 1922

Date of writing Report Mar. 11th. 1922 When handed in at Local Office 191 Port of Hong Kong

No. in Survey held at Hong Kong Date, First Survey 10-1-21 Last Survey Mar. 7th. 1922

Req. Book. on the Steel Screw Steamer "PETRICOLA" (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 EY8/9/20 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 8-11-21

No. of Certificate 124 Can each boiler be worked separately Yes Area of fire grate in each boiler 33.3 sq. ft. 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 bunkers or woodwork 5ft. Up. Dk. Mean dia. of boilers 11'-6" Length 11'-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 1/4" Per centages of strength of longitudinal joint rivets 96.5% plate 83.6% 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 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 plates: Material Steel Thickness: Sides 19/32" Back 19/32" Top 19/32" Bottom 3" Pitch of stays to ditto: Sides 7 1/8" x 8 1/2" Back 7 1/8" x 8 1/2" Nuts on marginal & girder stays remainder S. 129 lbs. If stays are fitted with nuts or riveted heads riveted S. 62.5 lbs. Working pressure by rules B. 127 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 lbs. T. 171 " Material of plates in steam space: Material Steel Thickness 7/8" Pitch of stays 16 1/2" x 18" 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 lower 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 1/2" Pitch across wide inter spaces 13 1/2" Working pressures by rules Space 149 " Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 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 1/2" 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 rivets 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,

R. H. Dyer Manufacturer.

Dates During progress of January 10th 1921 to
Survey work in shops
while During erection on March 7th. 1922
building board vessel

Is the approved plan of boiler forwarded herewith No.Total No. of visits 20GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The workmanship is good.Adapted for coal or oil fuel, boiler fixed in upper deck.Lackness of safety valves washers: - 3/8" both.

IDENTIFICATION MARKS ON BOILER:—

No. 124 HKG.
LLOYD'S TEST
230 lbs.
W.P. 120 lbs.
8-11-21
T. S. M.

per Rpt. 4.

Survey Fee £71.00When applied for, 7/3 22Travelling Expenses (if any) £When received, 18.4 1922

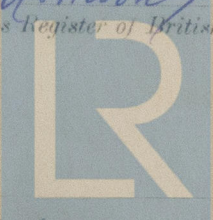
Committee's Minute

FRI. 4 MAY 1922

Assigned

See Minutes
on Report

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



Lloyd's Register
Foundation

W504-0081
W504-0082