

REPORT ON BOILERS.

No. 5335

MON. 24 JUL. 1922

Received at London Office

Date of writing Report 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
 Net 3491.36
 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 88/9/20 Total Heating Surface of Boilers 1228.7 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 No. and Description of Safety valves to each boiler Two 2" spring loaded Area of each valve 3.1416 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 5 ft. 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 plates or width of butt straps 14 1/2" 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 Daington Material Steel Outside diameter 44 1/2" Length of plain part 13' 32" 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 1/4" Pitch of stays to ditto: Sides 7 1/8" x 8 5/8" Back 7 1/8" x 8 1/4"
 Nuts on marginal & girder stays remained Working pressure by rules 129 lbs. Material of stays Steel Diameter at smallest part 1.23" Area supported by each stay 8.62.5 Working pressure by rules 162 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 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 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 end plates 13 1/2" Working pressures by rules 140 lbs. Space 149" Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 7" x 1/2" double Length as per rule 32 3/4" Distance apart 8 1/4" Number and pitch of Stays in each Three 8 5/8"
 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 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 -

HONG KONG & WHAMPOA DOCK Co., Ltd.
 The foregoing is a correct description,
 R.H. Dyer Manufacturer.

Dates During progress of work in shops January 10th. 1921 to May 31st. 1922 Is the approved plan of boiler forwarded herewith NO
 while building board vessel May 31st. 1922 Total No. of visits 20

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The workmanship is good.
Intended for coal or oil fuel, boiler fixed in upper deck.

Thickness of safety valves washers: 3/8" both.
IDENTIFICATION MARKS ON BOILER:-
 Survey Fee ... \$66.00 : When applied for, 31/5 1922
 Travelling Expenses (if any) £ : : When received, 14/6/22 ASM

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

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

Committee's Minute FRI JUL 28 1922
 Assigned

