

REPORT ON BOILERS.

No. 5311

Received at London Office

Date of writing Report Apr. 29th 1922 When handed in at Local Office101 Port of Hong KongNo. in Survey held at Hong KongDate, First Survey 10-1-21Last Survey Apr. 28th. 1922

Reg. Book.

(Number of Visits 20)Gross 5818.86Net 3491.36on the Steel Screw Steamer "PLANORBIS"Master Hong Kong Built at Hong Kong By whom built Hong Kong & Whampoa Dock Co. Ltd. When built 1922Engines made at Hong Kong By whom made Hong Kong & Whampoa Dock Co. Ltd. When made 1922Boilers made at Hong Kong By whom made Hong Kong & Whampoa Dock Co. Ltd. When made 1922Registered Horse Power 517 Owners Anglo-Saxon Petroleum Co. Ltd. Port belonging to Hong KongMULTITUBULAR 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 ofBoilers One Cylindrical Multitubular Working Pressure 120 lbs. Tested by hydraulic pressure to 230 lbs. Date of test 7-12-21No. of Certificate 128 Can each boiler be worked separately Yes Area of fire grate in each boiler 33.3 sq. ft. No. and Description ofSafety 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 NoBoiler on Apr. smallest distance between boilers or uptakes and bunkers or woodwork 5 ft. Up. Dk. Mean dia. of boilers 11'-6" Length 11'-3"Material of shell plates Steel Thickness 3/8" Range of tensile strength 28-32 Tons Are the shell plates welded or flanged NoDescrip. 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"Pitch of plates or width of butt straps 14 1/2" Per centages of strength of longitudinal joint 96.5% Working pressure of shell byrules 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 eachBoiler Two Deighton Material Steel Outside diameter 44 1/2" Length of plain part top Thickness of plates crown 13/32"Description of longitudinal joint Welded No. of strengthening rings - Working pressure of furnace by the rules 141 lbs. Combustion chamberMaterial 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 S. 129 lbs. Working pressure by rules S. 127 lbs. Material of stays Steel Diameter atsmallest 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 sq. in. Working pressure by rules 132 lbs. Material of Front plates at bottom Steel Thickness 25/32" Material ofLower back plate Steel Thickness 11/16" Greatest pitch of stays 13" Working pressure of plate by rules B. 134 Diameter of tubes 3"Material of tube plates Steel Thickness: Front 25/32" Back 21/32" Mean pitch of stays 12 1/8" x 8 1/8" Pitch across wideWorking pressures by rules 149 Girders to Chamber tops: Material Steel Depth and thickness ofder 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 1/8"Working pressure by rules 133 lbs. Superheater or Steam chest: how connected to boiler - Can the superheater be shut off and the boiler workedseparately - Diameter - Length - Thickness of shell plates - Material - Description of longitudinal joint - Diam. of rivetPitch 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 -

The foregoing is a correct description,

R. H. Day. Manufacturer.

During progress of work in shops - - - January 10th. 1921.

Is the approved plan of boiler forwarded herewith -

During erection on board vessel - - - April 28th. 1922.

Total No. of visits 20

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

Fitted 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

When applied for, 28/4 1922

Travelling Expenses (if any) £

When received, See Rpt. 4 on machinery

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

FRI. JUN. 16 1922

Committee's Minute

Signed

See other report
HKG 5311