

REPORT ON BOILERS.

No. 1901

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Date of writing Report 29-4-1952 When handed in at Local Office 19 Port of KARACHI
 No. in Reg. Book. Survey held at EAST WHARF Date, First Survey 29-5-51 Last Survey 28-4-52
 on the STEEL SCREW STEAMER FORMA (Number of Visits 4) Gross 470.7 Tons Net 234.3
 Master Built at CALCUTTA By whom built GARDEN REACH W'SHOP Yard No. 258 When built 1941
 Engines made at RENFREW By whom made LOBNITZ & CO Engine No. When made 1941
 Boilers made at NO RECORD By whom made Boiler No. When made 1941
 Nominal Horse Power 135 Owners EAST AND WEST STEAMSHIP CO Port belonging to KARACHI

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel No record (Letter for Record —)
 Total Heating Surface of Boilers 2606 sq ft Is forced draught fitted Yes Coal or Oil fired Coal
 No. and Description of Boilers 1 Marine Multitubular Working Pressure 200 lb/sq in
 Tested by hydraulic pressure to 400 lb/sq in Date of test — No. of Certificate — Can each boiler be worked separately —
 Area of Firegrate in each Boiler — No. and Description of safety valves to each boiler Two spring loaded 3 1/4" diam.
 Area of each set of valves per boiler { per Rule 15.2 sq in as fitted 16.6 sq in Pressure to which they are adjusted 200 lb/sq in Are they fitted with easing gear Yes
 In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler —
 Smallest distance between boilers or uptakes and bunkers or woodwork 2'-6" to bunkers Is oil fuel carried in the double bottom under boilers No
 Smallest distance between shell of boiler and tank top plating No double bottom Is the bottom of the boiler insulated No
 Largest internal dia. of boilers 17 5/8" Length — Shell plates: Material Steel Tensile strength 29/33 tons
 Thickness 1 3/16" Are the shell plates welded or flanged End Plates flanged Description of riveting: circ. seams { end Doubles inter —
 long. seams Treble rivetted Diameter of rivet holes in { circ. seams 1 3/8" long. seams 1 3/8" Pitch of rivets { 9 1/4" 4"
 Percentage of strength of circ. end seams { plate 65.6% rivets 53.6% Percentage of strength of circ. intermediate seam { plate — rivets —
 Percentage of strength of longitudinal joint { plate 85.5% rivets 88.5% combined — Working pressure of shell by Rules 203.3 lb/sq in
 Thickness of butt straps { outer 1" inner 1 1/8" No. and Description of Furnaces in each Boiler 3 Deighton
 Material Steel Tensile strength 29/33 tons Smallest outside diameter 20 1/2"
 Length of plain part { top 12 2 3/32" bottom 12 2 3/32" Thickness of plates { crown 1 1/32" bottom 1 1/32" Description of longitudinal joint Welded
 Dimensions of stiffening rings on furnace or c.c. bottom None Working pressure of furnace by Rules 203 lb/sq in
 End plates in steam space: Material Steel Tensile strength 29/33 tons Thickness 1 1/32" Pitch of stays 20 1/2"
 How are stays secured Double nuts Working pressure by Rules 225 lb/sq in
 Tube plates: Material { front Steel back Steel Tensile strength { 29/33 tons 29/33 tons Thickness { 7/8" 2 5/32"
 Mean pitch of stay tubes in nests 7 3/4" Pitch across wide water spaces 13 7/8" Working pressure { front 226 lb/sq in back —
 Girders to combustion chamber tops: Material Steel Tensile strength 29/32 tons Depth and thickness of girder at centre 8 1/4" x 15 1/6" Length as per Rule 213 lb/sq in Distance apart 10 3/4" No. and pitch of stays in each Two at 9 7/8" Working pressure by Rules 213 lb/sq in Combustion chamber plates: Material Steel
 Tensile strength 26/30 tons Thickness: Sides 2 5/32" Back 3/4" Top 2 5/32" Bottom 2 5/32"
 Pitch of stays to ditto: Sides 9 7/8" Back 9 1/2" Top 9 7/8" Are stays fitted with nuts or riveted over Nuts fitted
 Working pressure by Rules 207 lb/sq in Front plate at bottom: Material Steel Tensile strength 29/32 tons
 Thickness 7/8" Lower back plate: Material Steel Tensile strength 29/33 tons Thickness 7/8"
 Pitch of stays at wide water space 14" x 9 7/8" Are stays fitted with nuts or riveted over Nuts fitted
 Working pressure 207 lb/sq in Main stays: Material Steel Tensile strength 29/32 tons
 Diameter { At body of stay 3 1/2" No. of threads per inch 6 Area supported by each stay 410 sq in
 Working pressure by Rules 207 lb/sq in Screw stays: Material Steel Tensile strength 26/30 tons
 Diameter { At turned off part 1 7/8" No. of threads per inch 9 Area supported by each stay 93.8 sq in

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