

REPORT ON BOILERS.

L.A. 11377
No.

Received at London Office 24 FEB 1947

Report 20-2 1947 When handed in at Local Office CASABLANCA Port of CASABLANCA
 Survey held at CASABLANCA Date, First Survey AND Last Survey 20 FEB 1947
 (Number of Visits 1) } Gross 1122
 the 3/4 CAID ALLAL EX CHESHIRE COAST Tons } Net 466
 Built at MIDDLESBROUGH By whom built SIR RAYLTON DIXON & Co. Yard No. 591 When built 1915
 Made at MIDDLESBROUGH By whom made RICHARDSONS, WESTGARTH & Co. Ltd Engine No. When made 1915
 " " By whom made " " " Boiler No. When made 1915
 Horse Power 226 Owners UNION D'ENTREPRISES MAROCAINES Port belonging to CASABLANCA

TUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Material of Steel 4012 05/11 (Letter for Record)
 Heating Surface of Boilers (2) 4080 SQ. FT. Is forced draught fitted NO Coal or Oil fired COAL
 Description of Boilers TWO CYLINDRICAL SCOTCH BOILERS Working Pressure 200 lb
 Hydraulic pressure to _____ Date of test _____ No. of Certificate _____ Can each boiler be worked separately YES
 Firegrate in each Boiler 60.5 SQ. FT. No. and Description of safety valves to each boiler 2 OF 3" DIA. ✓
 Each set of valves per boiler { per Rule 11.9 0" } Pressure to which they are adjusted 200 Are they fitted with easing gear YES ✓
 { as fitted 14.1 0" }
 donkey boilers, state whether steam from main boilers can enter the donkey boiler _____
 Distance between boilers or uptakes and bunkers or woodwork 6' 8 5" Is oil fuel carried in the double bottom under boilers NO ✓
 Distance between shell of boiler and tank top plating 2' Is the bottom of the boiler insulated YES ✓
 Internal dia. of boilers 14' 3 15/32" Length 11' 9" Shell plates: Material STEEL Tensile strength 29-33
1 7/64" Are the shell plates welded or flanged NO ✓ Description of riveting: circ. seams { end 1 1/4" DOUBLE ✓
 { inter. _____ }
 Pitch of rivets { 3 1/2" }
1 1/4" TREBLE ✓ Diameter of rivet holes in { circ. seams 15/16" }
 { long. seams 15/16" }
 Percentage of strength of circ. intermediate seam { plate _____ }
 { rivets _____ }
 Working pressure of shell by Rules 199 lb
 Strength of strength of circ. end seams { plate 62.5 }
 { rivets 44.2 }
 Strength of strength of longitudinal joint { plate 85 }
 { rivets 83 }
 { combined 86.4 }
 No. and Description of Furnaces in each Boiler 3 CORRUGATED DEIGHTON
 Tensile strength 26-28 Smallest outside diameter 3' 5 1/16"
 Thickness of plates { crown 19/32" }
 { bottom 19/32" } Description of longitudinal joint _____
 Working pressure of furnace by Rules 209 lb
 Stays in steam space: Material STEEL Tensile strength 26-30 Thickness 19/32" Pitch of stays 17" x 21" ✓
 Stays secured SCREWED INTO FRONT END PLATE DOUBLE NUTS & OUTSIDE WASHERS Working pressure by Rules 222 lb
 Material { front STEEL } Tensile strength { 26-30 }
 { back STEEL } { 26-30 } Thickness { 31/32" }
 { 27/32" }
 Pitch of stay tubes in nests 14 1/4" x 9 1/2" Pitch across wide water spaces 14 1/2" Working pressure { front 158 lb }
 { back 119 lb }
 Combustion chamber tops: Material STEEL Tensile strength 28-30 Depth and thickness of girder _____
 Length as per Rule 3' 0 1/2" Distance apart 9" No. and pitch of stays _____
 Working pressure by Rules 230 lb Combustion chamber plates: Material STEEL
 Thickness: Sides 1/16" Back 2 1/32" Top 1/16" Bottom 15/16"
 Stays to ditto: Sides 8 3/4" x 8" Back 9 1/2" x 8" Top 9" x 8 3/4" Are stays fitted with nuts or riveted over NUTS IN CHAMBERS ONLY
 Working pressure by Rules 179 lb Front plate at bottom: Material STEEL Tensile strength 26-30
 Lower back plate: Material STEEL Tensile strength 26-30 Thickness 15/16"
 Stays at wide water space 14 1/2" x 8" Are stays fitted with nuts or riveted over NUTS & WASHERS ✓
 Working pressure 283 lb Main stays: Material STEEL Tensile strength 28-32
 At body of stay 3 1/2" No. of threads per inch (5) 6 Area supported by each stay 360 sq"
 Working pressure by Rules 301 lb Screw stays: Material STEEL Tensile strength 26-30
 At turned off part 1 3/4" No. of threads per inch 9 Area supported by each stay 76 sq"

Working pressure by Rules **240 lb** Are the stays drilled at the outer ends **NO** ✓ Margin stays: Diameter ^{At turned off part,} **1 7/8"** ✓
 No. of threads per inch **9** ✓ Area supported by each stay **126 sq"** Working pressure by Rules **169 lb** ✓
 Tubes: Material **-** External diameter ^{Plain} **3 1/2"** ✓ ^{Stay} **3 1/2"** ✓ Thickness ^{8 W.G.} **5/16, 3/8"** ✓ No. of threads per inch **9** ✓
 Pitch of tubes **4 3/4"** ✓ Working pressure by Rules **215 lb** ✓ Manhole compensation: Size of opening in
 shell plate **16x12"** Section of compensating ring **6 1/2" x 1 7/8"** ✓ No. of rivets and diameter of rivet holes **28 x 1 5/16"** ✓
 Outer row rivet pitch at ends **6 3/8"** Depth of flange if manhole flanged **3 1/4"** ✓ Steam Dome: Material **NONE** ✓
 Tensile strength _____ Thickness of shell _____ Description of longitudinal joint _____
 Diameter of rivet holes _____ Pitch of rivets _____ Percentage of strength of joint ^{Plate} _____
 Internal diameter _____ Working pressure by Rules _____ Thickness of crown _____ No. and diameter of
 stays _____ Inner radius of crown _____ Working pressure by Rules _____
 How connected to shell _____ Size of doubling plate under dome _____ Diameter of rivet holes and pitch
 of rivets in outer row in dome connection to shell _____

Type of Superheater **NONE** Manufacturers of ^{Tubes} _____
^{Steel forgings} _____
^{Steel castings} _____
 Number of elements _____ Material of tubes _____ Internal diameter and thickness of tubes _____
 Material of headers _____ Tensile strength _____ Thickness _____ Can the superheater be shut off and
 the boiler be worked separately _____ Is a safety valve fitted to every part of the superheater which can be shut off from the boiler
 Area of each safety valve _____ Are the safety valves fitted with easing gear _____ Working pressure as per
 Rules _____ Pressure to which the safety valves are adjusted _____ Hydraulic test pressure
 tubes _____ forgings and castings _____ and after assembly in place _____ Are drain cocks or
 valves fitted to free the superheater from water where necessary _____

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with **YES**
 The foregoing is a correct description,

Dates of Survey ^{During progress of} **PPH** _____ Are the approved plans of boiler and superheater (or casing) _____
^{work in shops - -} _____
 while ^{During erection on} _____
 building ^{board vessel} _____ Total No. of visits _____

Is this Boiler a duplicate of a previous case _____ If so, state Vessel's name _____

GENERAL REMARKS (State quality of workmanship, opinions as to class, etc.)
 The port and starboard boilers with their pressure vessels have been examined out and examined internally and externally. They are in good condition and are eligible in my opinion to be classed. They were previously examined in their entirety and are in good condition and were tested hydraulically to the W.P. Their safety valves have been adjusted under steam to 200 lb. All repairs carried out during the first examination to the local surveyor's satisfaction.

Survey Fee £ : : } When applied for, 10
 Travelling Expenses (if any) £ : : } When received, 10

John G. ...
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **FRI. 4 JUL 1947**

Assigned **See F.E. mch. rpt. P**

