

## REPORT ON BOILERS.

No. 10862

Received at London Office

27 MAY 1929

Writing Report 23-5-29 192 When handed in at Local Office 23-5-29 192 Port of GENOA.

Survey held at GENOA. Date, First Survey 13-5-29 Last Survey 15-5-29. 192

on the S.S. "CILURNUM" (Number of Visits 3.) Gross 3072. Tons Net 1848.

Built at MIDDLESBROUGH By whom built SIR RAYLTON DIXON & Co Yard No. 620 When built 1919.

es made at MIDDLESBROUGH By whom made RICHARDSON, WESTGARTH & Co Ltd Engine No. 2520 When made 1919.

s made at — By whom made — Boiler No. M2520 When made 1919.

al Horse Power — Owners A. MENCHACA. Port belonging to BILBAO.

MULTITUBULAR BOILERS—MAIN, ~~HEATING~~, OR ~~DRIFT~~

facturers of Steel — (Letter for Record S.)

Heating Surface of Boilers 5925 SQUARE FEET Is forced draught fitted No Coal or Oil fired COAL.

nd Description of Boilers 3. SINGLE ENDED CYLINDRICAL MULTITUBULAR, 3SB Working Pressure 180 LB/SQ IN.

l by hydraulic pressure to ✓ Date of test ✓ No. of Certificate ✓ Can each boiler be worked separately YES.

of Firegrate in each Boiler 51.7 SQ FEET No. and Description of safety valves to each boiler TWO, SPRING LOADED.

of each set of valves per boiler { per Rule 12.67 SQ IN. Pressure to which they are adjusted 180 LBS Are they fitted with easing gear YES.  
as fitted 11.88 SQ IN.

e of donkey boilers, state whether steam from main boilers can enter the donkey boiler ✓

est distance between boilers or uptakes and bunkers or woodwork NONE NEAR. Is oil fuel carried in the double bottom under boilers NO.

est distance between shell of boiler and tank top plating 2'-0". Is the bottom of the boiler insulated NO.

st internal dia. of boilers 13'-9 3/4" Length 11'-6" Shell plates: Material STEEL Tensile strength 28 3/4 - 33 TONS

ess 1 1/8" Are the shell plates welded or flanged ✓ Description of riveting: circ. seams { end DOUBLE  
inter 3 1/2"  
seams TREBLE Diameter of rivet holes in { circ. seams 1 1/8" Pitch of rivets { 8 1/2"  
long. seams 1 1/8"

stage of strength of circ. end seams { plate 67.9 %. Percentage of strength of circ. intermediate seam { plate ✓  
rivets 44.6 %. rivets ✓

stage of strength of longitudinal joint { plate 86.8 %. Working pressure of shell by Rules 168 LBS PER SQ INCH.  
rivets 78.1 %.  
combined 85.12 %.

ess of butt straps { outer 7/8" No. and Description of Furnaces in each Boiler 3. CORRUGATED, DEIGHTON SECTION.  
inner 1 1/16"

al STEEL. Tensile strength 26-30 TONS. Smallest outside diameter 3'-8 3/16"

of plain part { top 7/32" Thickness of plates { crown 7/32" Description of longitudinal joint WELDED.  
bottom 7/32"

sions of stiffening rings on furnace or c.c. bottom ✓ Working pressure of furnace by Rules 193 LBS.

lates in steam space: Material STEEL Tensile strength 26-30 TONS. Thickness 1 1/32" Pitch of stays 23 3/4" x 19 1/2"

re stays secured NUTS AND WASHERS. Working pressure by Rules 200 LBS.

plates: Material { front STEEL. Tensile strength 26-30 TONS. Thickness { 3 1/32"  
back STEEL. Tensile strength 26-30 TONS. Thickness 3/4"

pitch of stay tubes in nests 9 1/2" Pitch across wide water spaces 14 1/4" Working pressure { front 378 LBS.  
back 222 LBS.

rs to combustion chamber tops: Material STEEL Tensile strength 28-32 TONS. Depth and thickness of girder 10 1/4" x 3/4"

re 10 1/4" x 3/4" Length as per Rule 35 1/2" Distance apart 9 3/8" No. and pitch of stays 2. 12 1/8"

Working pressure by Rules 242 LBS. Combustion chamber plates: Material STEEL.

e strength 26-30 TONS. Thickness: Sides 13/16" Back 3/4" Top 13/16" Bottom 13/16"

of stays to ditto: Sides 12 1/8" x 9 3/8" Back 9" x 10 1/4" Top 12 1/8" x 9 3/8" Are stays fitted with nuts or riveted over NUTS.

ng pressure by Rules 200 AND 213 LBS. Front plate at bottom: Material STEEL. Tensile strength 26-30 TONS.

ess 3 1/32" Lower back plate: Material STEEL. Tensile strength 26-30 TONS. Thickness 27/32"

of stays at wide water space 13 5/8" Are stays fitted with nuts or riveted over NUTS.

ng Pressure 218 LBS. Main stays: Material STEEL. Tensile strength 28-32 TONS.

er { At body of stay, 3 1/2" x 3 1/4" No. of threads per inch 6 Area supported by each stay 463.125 x 408.75 SQ IN.  
Over threads ✓

ng pressure by Rules 200 LBS. Screw stays: Material STEEL. Tensile strength 26-30 TONS.

er { At turned off part, 1 7/8" No. of threads per inch 9. Area supported by each stay 113.7 x 92.25 SQ IN.  
Over threads ✓

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Working pressure by Rules 187.230 LBS Are the stays drilled at the outer ends No Margin stays: Diameter { At turned off part, 2 1/8" or Over threads }  
 No. of threads per inch 9 Area supported by each stay 107.589 INCHES Working pressure by Rules 2264 LBS  
 Tubes; Material LAPWELDED / RON External diameter { Plain 3 1/2" Stay 3 1/2" } Thickness { 8 KG. 1/4" x 5/16" } No. of threads per inch 9  
 Pitch of tubes 4 3/4" Working pressure by Rules 215 LBS Manhole compensation: Size of opening  
 shell plate Section of compensating ring No. of rivets and diameter of rivet holes  
 Outer row rivet pitch at ends Depth of flange if manhole flanged Steam Dome: Material  
 Tensile strength Thickness of shell Description of longitudinal joint  
 Diameter of rivet holes Pitch of rivets Percentage of strength of joint { Plate Rivets }  
 Internal diameter Working pressure by Rules Thickness of crown No. and dia  
 stays Inner radius of crown Working pressure by Rules  
 How connected to shell Size of doubling plate under dome Diameter of rivet holes  
 of rivets in outer row in dome connection to shell  
 Type of Superheater Manufacturers of { Tubes 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  
 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  
 Rules Pressure to which the safety valves are adjusted Hydraulic test pressure  
 tubes, castings and after assembly in place Are drain cocks or valves  
 to free the superheater from water where necessary  
 Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with  
 The foregoing is a correct description,  
 Many

Dates of Survey { During progress of work in shops - - - } Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)  
 while building { During erection on board vessel - - - } Total No. of visits

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

The Starboard Boiler has been examined internally and externally together with its manholes and safety valves. The scantlings have been checked and the approved plan and found correct. The condition of the Boiler is good and the workmanship and materials appear to be of a good quality.  
 The Centre and Port Boilers have been examined internally and found tight and satisfactory. Their safety valves have been adjusted to 180 lbs per sq in; an accumulation held and all found in order. The sizes of compression washers are:- PORT BOILER, PORT 9" / 16" STARBOARD 6.5" / 16" CENTRE BOILER, PORT 6.5" / 16" STARBOARD 8.5" / 16".

N.B. These Boilers have been constructed under the survey of the

GENOA OFFICE.  
 Survey Fee ... £ 10.00.00  
 Travelling Expenses (if any) £ 1.00.00  
 TO 930.0 IT. LIRE.  
 When applied for, 192  
 When received, 192

TO BE CHARGED AT BILBAO ON COMPLETION OF SURVEY,  
 SEE SECRETARY'S LETTER "M" 21/3/29 TO BILBAO SURVEYORS,  
 AND CREDITED TO GENOA A/C.  
 Committee's Minute

TUE. 2 JUL 1929

Assigned no action  
 see minute on  
 Bbs Rhs 75-25

J. H. Leicester.  
 Engineer Surveyor to Lloyd's Register of Shipping



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