

REPORT ON WATER TUBE BOILERS.

No. *BALBOA*
2622

7-MAR-1949

Received at London Office

19 When handed in at Local Office

19

Port of *BALBOA*

held at *Salina Cruz, Mexico*

Date, First Survey *12 March 1945* Last Survey *✓*

19

(Number of Visits)

Gross *4323*

Net *2593*

When built *1921*

By whom built *Alt. Ges. "Vulcan"*

By whom made *Deutsche Schiff u. Maschb. A.S. Werk AG Weser* When made *1939*

By whom made *Deutsche Schiff u. Maschb. A.S. Werk AG Weser* When made *1939*

Owners *Julio Ribeiro Campos*

Port belonging to *Oporto*

BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel

Number and Description or Type

3 drums with 2 economisers and superheaters in each. Working Pressure *735 lb.* Tested by Hydraulic Pressure to *735 lb.* Date of Test *12 March 1945*

Can each boiler be worked separately. *Yes*

Total Heating Surface of Boilers *7793 sq. ft. = 266.5 sq. m.*

Area of fire grate (coal) in each Boiler *oil fired*

No. and description of safety valves on *20 24*

Area of each set of valves per boiler *all spring loaded.*

Pressure to which they *6.494 sq. ins*
as fitted 7.52 sq. ins

Are they fitted with easing gear *Yes*

In case of donkey boilers state whether steam from main boilers can enter

Smallest distance between boilers or uptakes and bunkers or woodwork *5'-0"*

Height of boiler *24'-0"*

Steam Drums: Number in each boiler *one*

Inside diameter *866 mm.*

Range of Tensile Strength *41-50 kg/mm²*

Are drum shell plates welded

If fusion welded, state name of welding firm *Hot rolled, machined inside*

Have all the requirements of the rules

been complied with *—* Description of riveting: *Cir. seams*

long seams *—*

Pitch of rivets *—*

Thickness of straps *—*

Percentage strength of *See*

Rivet *—*

Diameter of tube holes in drum *2 1/4" & 1 7/8"*

Pitch of tube holes *3 3/8" & 2 3/8"*

of shell in way of tubes *33 1/2 and 50%*

Steam Drum Heads or Ends: Range of tensile strength *forged with drum*

Radius or how stayed *433 mm.*

Size of manhole or handhole *15 1/2" dia.*

Water Drums: Number

Inside Diameter *480 mm.* Thickness of plates *35 mm.*

Range of tensile strength *41-50 kg/mm²* Are drum shell plates

seamless. If fusion welded, state name of welding firm *Hot rolled, machined inside*

Have all the requirements of the rules

been complied with *—* Description of riveting: *Cir. seams*

long seam *—*

Pitch of rivets *—*

Thickness of straps *—*

of long joint: Plate *—*

Rivet *—*

Diameter of tube holes in drum *2 1/4" and 1 7/8"* Pitch of tube holes *3 3/8" and 2 3/8"*

of drum shell in way of tubes *33 1/2 and 50%*

Water Drum Heads or Ends: Range of Tensile strength *solid with drum*

internal flange *5 1/2" thick* Radius or how stayed *—*

Size of manhole or handhole *15 1/2" dia*

ons: Number *—*

Material *—*

Thickness *—*

Tested by Hydraulic Pressure to *—*

2 1/4" and 1 7/8"

Thickness *134" and 120"*

Number *34 & 345 ea. boiler*

Steam Dome or Collector: Description of

Inside diameter *300 mm.* Thickness of shell plates *30 mm.*

Range of tensile

Description of longitudinal joint *seamless*

If fusion welded, state name of welding

Have all the requirements of the rules for Class I vessels been complied with *—*

Diameter of *tubes 1 7/8" O.D.*

Thickness of straps *—*

Percentage strength of long joint *—*

Plate *39.7%* Rivet *—*

ates: Range of tensile strength *—*

Thickness *—*

Radius or how stayed *—*

ATER. Drums or Headers: Number in each boiler *Two*

Inside Diameter *100 mm.*

Material *Cast Steel*

Range of tensile strength *41-50 kg/mm²*

Are drum shell plates welded

If fusion welded, state name of welding firm *—*

Have all the requirements of the rules

been complied with *—* Description of riveting: *Cir. seams*

long seams *—*

Pitch of rivets *—*

Thickness of straps *—*

Percentage strength of

Rivet *—*

Diameter of tube holes in drum *22 mm.*

Pitch of tube holes *60 mm.*

Percentage strength of

of tubes *63.4%* Drum Heads or Ends: *flanged to join*

Range of tensile strength *—*

Size of manhole or handhole *screwed plug at each hole*

Number, diameter, and thickness of tubes *26 elements; 788; 0.079"*

Pressure to *—* Date of Test *—*

Is a safety valve fitted to each section of the superheater which

No. and description of Safety Valves *one; spring loaded; high life*

Area of each set

Pressure to which they are adjusted *—*

Is easing gear fitted *Yes*

Has the spare gear required by the rules been supplied *—*

The foregoing is a correct description,

ECONOMISERS OVERLEAF

Manufacturer.

progress of *—*
in shops *—*
erection on *—*
vessel *—*

Is the approved plan of boiler forwarded herewith *Yes*

Total No. of visits *—*

licate of a previous case *no*

If so, state vessel's name and report No. *—*

REMARKS (State quality of workmanship, opinions as to class, &c.) *Boiler tubes renewed accepted by Committee and*

London Cable, Oct. 1945

When applied for, *✓* 19 *—*

When received, 19 *—*

NEW YORK FEB 16 1949

Minute *See N. O. S. RPT. NO. 6881*

Engineer Surveyor to Lloyd's Register of Shipping.

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Economisers,

2 to each boiler

4 headers; cast steel, 41-50 kg/mm²; 80 mm square section; 20
28 tube elements to each economiser, .788" O.D of tube; .079" thick
1" screwed plug opposite each tube end.



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