

REPORT ON BOILERS.

No. 4004

30 JUN 1941

Received at London Office

Port of Galveston

When handed in at Local Office

No. in Survey held at HAMBURG Date, First Survey 55/11/1940 Last Survey 1940

g. Book. GEN. EXAM. at Galveston

2306 on the "NUEVA ANDALUCIA"

(Number of Visits) Gross 10044 Net 5786

Master — Built at Hamburg By whom built Deutsche Werft A.G. Card No. 232 When built 1940

Engines made at Augsburg By whom made M. A. H. Engine No. — When made 1939

Boilers made at Hamburg By whom made Deutsche Werft A.G. Boiler No. — When made 1939-41

Nominal Horse Power 1167 Owners The Texas Co. (Norway) A.S. Port belonging to Oslo

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Steel tested as required by Rules.

Manufacturers of Steel but particulars not available

(Letter for Record S.)

Total Heating Surface of Boilers 400 m²

Is forced draught fitted yes

Coal or Oil fired oil

No. and Description of Boilers 2 SB

Working Pressure 12 kg./cm²

Tested by hydraulic pressure to 21.5 kg. Date of test 21-11-39 No. of Certificate 761

Can each boiler be worked separately yes

Area of Firegrate in each Boiler — No. and Description of safety valves to each boiler 2 spring loaded

Area of each set of valves per boiler per Rule 9345 mm² Pressure to which they are adjusted 12 kg. 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 1120 mm Is oil fuel carried in the double bottom under boilers yes

Smallest distance between shell of boiler and bottom plating 400 mm Is the bottom of the boiler insulated yes

Largest internal dia. of boilers 4100 mm Length 2300 mm Shell plates: Material O.H. Steel Tensile strength 47-53 kg./mm²

Thickness 25.5 mm Are the shell plates welded or flanged no Description of riveting: circ. seams D.R. lap

Long. seams T.R.D.B.S. Diameter of rivet holes in circ. seams 29 mm Pitch of rivets 92.7 mm

Percentage of strength of circ. end seams plate rivets Percentage of strength of circ. intermediate seam plate rivets

Percentage of strength of longitudinal joint plate rivets combined Working pressure of shell by Rules —

Thickness of butt straps outer 25.5 mm No. and Description of Furnaces in each Boiler 3 corrugated (Morse type)

Material O.H. Steel Tensile strength 41-47 kg./mm² Smallest outside diameter 974 mm

Length of plain part top — Thickness of plates crown 12 mm Description of longitudinal joint lap weld

Dimensions of stiffening rings on furnace or c.c. bottom none Working pressure of furnace by Rules —

End plates in steam space: Material O.H. Steel Tensile strength 41-47 kg./mm² Thickness 24 mm Pitch of stays 460 x 400 mm

How are stays secured Lower 2 N. 2 " doubler Working pressure by Rules —

Tube plates: Material front O.H. Steel Tensile strength 41-47 kg./mm² Thickness 24 mm

Lean pitch of stay tubes in nests 208 mm Pitch across wide water spaces 360 mm Working pressure front —

Orders to combustion chamber tops: Material O.H. Steel Tensile strength 47-53 kg./mm² Depth and thickness of girder

centre 200 x 12 double Length as per Rule 709 mm Distance apart 200 mm No. and pitch of stays

each 2 @ 210 mm Working pressure by Rules — Combustion chamber plates: Material O.H. Steel

Tensile strength 41-47 kg./mm² Thickness: Sides 16.5 mm Back 19 mm Top 16.5 mm Bottom 24 mm

Pitch of stays to ditto: Sides 200 x 210 mm Back 200 x 208 mm Top 210 x 200 Are stays fitted with nuts or riveted over riveted

Working pressure by Rules — Front plate at bottom: Material O.H. Steel Tensile strength 41-47 kg./mm²

Thickness 24 mm Lower back plate: Material O.H. Steel Tensile strength 41-47 kg./mm² Thickness 24 mm

Pitch of stays at wide water space 360 mm Are stays fitted with nuts or riveted over nuts

Working Pressure — Main stays: Material O.H. Steel Tensile strength 41-47 kg./mm²

Diameter At body of stay, 72 mm No. of threads per inch 6 Area supported by each stay —

Working pressure by Rules — Screw stays: Material O.H. Steel Tensile strength 41-47 kg./mm²

Diameter At turned off part, 35.38 mm No. of threads per inch 9 Area supported by each stay —

Over threads 39 mm

Rept 504

Working pressure by Rules — Are the stays drilled at the outer ends *no* Margin stays: Diameter { At turned off part, *38-38 mm* or *42 mm* Over threads. *42 mm*

No. of threads per inch *9* Area supported by each stay — Working pressure by Rules —

Tubes: Material *O.H. Steel* External diameter { Plain *76 mm* Stay *76 mm* Thickness { *7.75 mm* *8 1/11 mm* No. of threads per inch *9*

Pitch of tubes *104 x 104 mm* Working pressure by Rules — Manhole compensation: Size of opening in shell plate *320 x 425 mm* Section of compensating ring *265 x 25.5 mm* No. of rivets and diameter of rivet holes *28 @ 29 mm*

Outer row rivet pitch at ends *175 mm* Depth of flange if manhole flanged — Steam Dome: Material *O.H. Steel*

Tensile strength *41-47 kg/mm²* Thickness of shell *14 mm* Description of longitudinal joint *welded with inside riveted*

Diameter of rivet holes *26 mm* Pitch of rivets *84 mm* Percentage of strength of joint { Plate Rivets

Internal diameter *900 mm* Working pressure by Rules — Thickness of crown *16 mm* No. and diameter of stays *none* Inner radius of crown *720 mm* Working pressure by Rules —

How connected to shell *riveted angle* Size of doubling plate under dome *only manhole doubler* Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell *29 mm @ 200 mm*

Type of Superheater

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

The foregoing is a correct description,

Manufacturer.

Dates of Survey { During progress of work in shops - - while building { During erection on board vessel - - - }

Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)

Total No. of visits

Is this Boiler a duplicate of a previous case *Yes*

If so, state Vessel's name and Report No. *"Nueva Granada" Ham. 22304*

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

Galveston, Nov. 1940. These boilers have been efficiently installed and fixed in the vessel. Generally examined internally & externally, and under steam, particulars so far as seen found in accordance with this form, and in accordance with the rules. Workmanship and materials as seen are satisfactory

Survey Fee £ : : }

When applied for,

19

Travelling Expenses (if any) £ : : }

When received,

19

Committee's Minute

TUE. 29 JUL 1941

Assigned

See Gal. J.C. 4004

Engineer Surveyor to Lloyd's Register of Shipping.
Sam. Kenne



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