

REPORT ON BOILERS.

No.

11153

Received at London Office

10 MAY 1952

Date of writing Report 29th April 1952. When handed in at Local Office 1.5 52 Port of BILBAO

No. in Survey held at Bilbao Date, First Survey 4th Febr. 1952 Last Survey 7th April, 1952
Reg. Book.

on the Yard No. 56. M.V. "VICTORIA" (Number of Visits 5) Gross Tons - Net -

Built at Valencia By whom built Unión Naval de Levante Yard No. 56 When built 1952

Engines made at - By whom made - Engine No. - When made -

Boilers made at - By whom made - Boiler No. - When made -

Owners Empresa Nacional ELCANO. Port belonging to -

DONKEY
VERTICAL BOILER.

Made at Bilbao By whom made S.E.C. Babcock & Wilcox Boiler No. 1154 When made 1952 Where fired -

Manufacturers of Steel Altos Hornos de Vizcaya, Bilbao.

Total Heating Surface of Boiler 515 sq. ft. Is forced draught fitted - Coal or Oil fired Oil

No. and Description of Boilers One Clarkson Thimble Tube Vertical Batog/515 Working Pressure 50 lb/sq. in.

Tested by hydraulic pressure to 100 lbs/sq. in. Date of test 7-4-52. No. of Certificate 203

Area of fire grate in each Boiler - No. and description of safety valves to each boiler 2 spring loaded 3" dia. each

Area of each set of valves per boiler { per Rule 9.9 sq. in. Pressure to which they are adjusted - Are they fitted with easing gear Yes
as fitted 11.28 "

State whether steam from main boilers can enter the donkey boiler - Smallest distance between boiler or uptake and bunkers

or woodwork - Is oil fuel carried in the double bottom under boiler - Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated - Largest internal dia. of boiler 6' - 0" Height 12' - 3"

Shell plates: Material S.M. Steel Tensile strength 28-32 tons/in. Thickness 11/16"

Are the shell plates welded or flanged None If fusion welded, state name of welding firm -

Have all the requirements of the Rules for Class I vessels been complied with Description of riveting: circ. seams { D.R.B.L. Top 67.3
long. seams D.R.B.L. Dia. of rivet holes in { circ. seams 15/16" Pitch of rivets { 2.881" Bottom 71.5
long. seams 1 1/16" Percentage of strength of circ. seams { rivets Top 58.6
Bottom 49.9of longitudinal joint { plates 61.9 Thickness of butt straps { outer - Shell Crown: Whether complete hemisphere, dished partial
rivets 76 inner - shell eff. through thimbles.

spherical or flat partial spherical Material S.M. Steel Tensile strength 26-30 tons/s. Thickness 1/2"

Radius 5' - 9" Description of Furnace: Plain, spherical, or dished crown Plain Material S.M. Steel

Tensile strength 26-30 tons/sq. in. Thickness 9/16" External diameter { top 2' - 10 1/8" Length as per Rule 4' - 0"
bottom -

Pitch of support stays circumferentially - and vertically - Are stays fitted with nuts or riveted over -

Diameter of stays over thread - Radius of spherical or dished furnace crown -

Thickness of Ogee Ring 13/16" Diameter as per Rule { 6' - 0"
2' - 10 1/8"

Combustion Chamber: Material - Tensile strength - Thickness of top plate -

Radius if dished - Thickness of back plate - Diameter if circular -

Length as per Rule - Pitch of stays -

Are stays fitted with nuts or riveted over - Diameter of stays over thread -

Tube Plates: Material { front - Tensile strength { Thickness { Mean pitch of stay tubes in nests -
back -If comprising shell, dia. as per Rule { front - Pitch in outer vertical rows { Dia. of tube ends FRONT BACK
back -

Is each alternate tube in outer vertical rows a stay tube -

Girders to Combustion Chamber Tops: Material - Tensile strength -

Depth and thickness of girder at centre - Length as per Rule -

Distance apart - No. and pitch of stays in each -

5-13 11153.

Crown Stays: Material - Tensile strength - Diameter { at body of stay, - or over threads -

No. of threads per inch - Screw Stays: Material - Tensile strength -

Diameter { at turned off part, - or over threads - No. of threads per inch - Are the stays drilled at the outer ends -

CIRCULATING

Tubes: Material S.M. Steel External diameter { 2 3/4" ✓ Thickness { 9 S.W.G. ✓

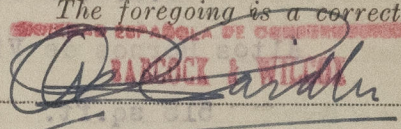
No. of threads per inch - Expanded and Bellmouthed

Manhole Compensation: Size of opening in shell plate 16" x 12" Section of compensating ring - No. of rivets and diameter of rivet holes - Outer row rivet pitch at ends - Depth of flange if manhole flanged 2 1/2"

Uptake: External diameter 15 3/4" Thickness of uptake plate 3/8"

Cross Tubes: No. - External diameters { - Thickness of plates -

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 while building { During progress of work in shops - 1952.-Feb. 4, 13-Mar. 15-Apr. 2, 7. Is the approved plan of boiler forwarded herewith 8.5.50-28.6.52. (If not state date of approval.)

{ During erection on board vessel - - - Total No. of visits -

Is this Boiler a duplicate of a previous case No If so, state Vessel's name and Report No. -

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

This Donkey Boiler has been constructed under Special Survey and in accordance to approved plans, and to our Rules and regulations and the workmanship is good.

The materials utilized in the construction have been tested to Rule requirements. When completed has been tested with hydraulic pressure of 100 lbs. per sq. in. found tight and sound. The steam stop, safety and check valves and all the mountings have been tested also to Rule requirements.

This Donkey Boiler has been sent to U.M.de Levante, Valencia, for fitting on board of yard No. 56.

Note- The steel casing covering the outside thimble tubes has been connected to the boiler shell plating by means of riveted angle bars, and not by electric welding, as per approved plan dated 28-3-52.

Survey Fee ... 2,500 When applied for 15 1952

Travelling Expenses (if any) 75 When received 19

L. de Ruano

Engineer Surveyor to Lloyd's Register of Shipping.

Date FRI 17 OCT 1952

Committee's Minute See F.E. mch. rpt Val 428