

# REPORT ON BOILERS.

No. 135046

23 APR 1952

Received at London Office.

Writing Report 3-4-1952 When handed in at Local Office 10-2-1952 Port of LIVERPOOL

Survey held at Birkenhead Date, First Survey 7/9/50 Last Survey 14/3/1952

on the single screw tug "EVA PERON" (Number of Visits.....) Tons { Gross 12741.20 Net 7395

Birkenhead By whom built Cammell, Laird & Co. Ltd. Yard No. 1206 When built 1952

made at Birkenhead By whom made Cammell, Laird & Co. Ltd. Engine No. 1206 When made 1952

made at Birkenhead By whom made Cammell, Laird & Co. Ltd. Boiler No. 1206 When made 1952

1 Horse Power ✓ Owners Yacimientos Petroliferos Fiscales Port belonging to Buenos Aires

TUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Colville, Ltd. (Letter for Record S)

Heating Surface of Boilers 5800 sq ft ✓ Of Superheaters ✓

or Register Book ✓ Is forced draught fitted yes ✓ Coal or Oil fired Oil ✓

and Description of Boilers Two single ended return tube ✓ Working Pressure 150 lb ✓

by hydraulic pressure to 245 lb Date of test 19.2.51 No. of Certificate 2794, 2795 Can each boiler be worked separately yes ✓

of Firegrate in each Boiler ✓ No. and Description of safety valves to each boiler one double 2 3/4" Improved High Exp.

of each set of valves per boiler { per Rule 11.2 lb as fitted 11.8 lb Pressure to which they are adjusted 150 lb Are they fitted with easing gear yes ✓

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

at distance between boilers or uptakes and bunkers or woodwork well clear Is oil fuel carried in the double bottom under boilers to

at distance between shell of boiler and tank top plating ✓ Is the bottom of the boiler insulated yes

internal dia. of boilers 15' 6" ✓ Length 12' 0" ✓ Shell plates: Material Steel Tensile strength 29-33 T/0 ✓

on welded, state name of welding Firm ✓ Have all the requirements of the Rules for Class I vessels

plied with ✓ Thickness 1 1/8" Are the shell plates welded or flanged to ✓ Description of riveting: circ. seams { end DR inter ✓

ams TR double butt straps Diameter of rivet holes in { circ. seams 1 1/8" long. seams 1 1/8" Pitch of rivets { 2.94" 7 7/8" ✓

age of strength of circ. end seams { plate 61 rivets 50 Percentage of strength of circ. intermediate seam { plate 85.7 rivets 88 combined 89

age of strength of longitudinal joint { plate 85.7 rivets 88 combined 89

ess of butt straps { outer 7/8" inner 1 5/16" ✓ No. and Description of Furnaces in each Boiler Three Dugden Section ✓

il Steel Tensile strength 26-30 T/0" Smallest outside diameter 3' 10 7/8"

of plain part { top - bottom - Thickness of plates 9/16" ✓ Description of longitudinal joint Weld ✓

nions of stiffening rings on furnace or c.c. bottom ✓

lates in steam space: Material Steel Tensile strength 26-30 T/0" Thickness 1 3/32" Pitch of stays 22" x 17 1/2" ✓

re stays secured Double nuts and outside washers ✓

plates: Material { front Steel back Steel Tensile strength { 26-30 T/0" 26-30 T/0" Thickness { 7/8" 1 3/16" ✓

pitch of stay tubes in nests 11 1/4" x 7 3/4" ✓ Pitch across wide water spaces 13 1/2" ✓

s to combustion chamber tops: Material Steel Tensile strength 28-32 T/0" Depth and thickness of girder

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

Welded to cc top Combustion chamber plates: Material Steel

strength 26-30 T/0" Thickness: Sides 2 1/32" Back 1/16" Top 2 1/32" Bottom 7/8" ✓

f stays to ditto: Sides 9 1/2" x 9 1/2" ✓ Back 9 3/4" x 9 1/2" Top Welded ✓ Are stays fitted with nuts or riveted over nuts ✓

plate at bottom: Material Steel Tensile strength 26-30 T/0"

ess 7/8" Lower back plate: Material Steel Tensile strength 26-30 T/0" Thickness 7/8" ✓

of stays at wide water space 15" x 9 1/2" ✓ Are stays fitted with nuts or riveted over nuts ✓

stays: Material Steel Tensile strength 28-32 T/0" ✓

er { At body of stay 3" No. of threads per inch 6

stays: Material Steel Tensile strength 26-30 T/0" ✓

er { At turned off part 1 1/8" No. of threads per inch 9



Are the stays drilled at the outer ends no Margin stays: Diameter <sup>At turned off part</sup> 1 3/4 or <sup>Over threads</sup>

No. of threads per inch 9

Tubes: Material Steel External diameter <sup>Plain</sup> 2 1/2 <sup>Stay</sup> 2 1/2 Thickness 9.9 5/16 No. of threads per inch 9

Pitch of tubes 3 3/8 x 3 3/4 Manhole compensation: Size of shell plate 17 1/4 x 21 1/4 Section of compensating ring 15 1/2 x 1 3/16 No. of rivets and diameter of rivet holes 48 1 1/8

Outer row rivet pitch at ends 7 3/8 Depth of flange if manhole flanged 3 1/2 Steam Dome: Material ✓

Tensile strength ✓ Thickness of shell ✓ Description of longitudinal joint ✓

Diameter of rivet holes ✓ Pitch of rivets ✓ Percentage of strength of joint <sup>Plate</sup> ✓ <sup>Rivets</sup> ✓

Internal diameter ✓ Thickness of crown ✓ No. and stays ✓ Inner radius of crown ✓

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 <sup>Tubes</sup> ✓ <sup>Steel forgings</sup> ✓ <sup>Steel castings</sup> ✓

Number of elements ✓ Material of tubes ✓ Internal diameter and thickness of tubes ✓

Material of headers ✓ Tensile strength ✓ Thickness ✓ Can the superheater be sh 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 ✓

Pressure to which the safety valves are adjusted ✓ Hydraulic test tubes ✓ forgings and castings ✓ and after assembly in place ✓ Are dra 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

**CAMMELL** **WARD** **AND** **RECOGNISED** **AS** **APPROVED** **BY** **THE** **REGISTER** **OF** **SHIPS** **AND** **BOAT** **BUILDERS** **OF** **THE** **UNITED** **Kingdom**

E. Stewart **ENGINEERING MANAGER**

Dates of Survey while building <sup>During progress of work in shops - -</sup> See Rpt 4<sup>a</sup> <sup>During erection on board vessel - -</sup> 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. General San Antonio

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) These tubes have been constructed under special survey in accordance with the approved Plans, the Society's Rules and Secretary's letters. The materials and workmanship are good. They have been put installed in the vessel and tried under working conditions with satisfactory results.

Survey Fee See Rpt 4<sup>a</sup> : : When applied for 19 : :  
Travelling Expenses (if any) £ : : When received 19 : :

E. Stewart  
Engineer Surveyor to Lloyd's Register of Ships

Committee's Minute LIVERPOOL 22 16 APR 1952

Assigned See Minute on Liverpool H.C. Mch. Rpt.



© 2020

Lloyd's Register  
Foundation