

REPORT ON WATER TUBE BOILERS. No. 2282

2-NOV-1954

writing Report 18 - 10- 1954 When handed in at Local Office 19 Port of **CADIZ**
 in Survey held at **CADIZ** Date, First Survey **17-12-1952** Last Survey **30-9-1954**
 Book. on the **S.S. "ALMIRANTE LOBO"** (Number of Visits **23**) Gross **4,183,34**
 at **Cadiz** By whom built **Astilleros de Cadiz, S.A.** Yard No. **40** Tons Net **2,246,71**
 es made at **Cadiz** By whom made **Astilleros de Cadiz, S.A.** Engine No. **10** When built **1954**
 s made at **Cadiz & Zaragoza** By whom made **Astilleros de Cadiz, S.A.** Boiler No. **152-57** When made **1954**
 id. Horse Power **2493** Owners **Marina de Guerra Española** Port belonging to **---**

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel **Altos Hornos de Vizcaya, S.A.**

of Approval of plan **19th July 1948 & 2nd July 1952** No. and Description or Type
 ilers **Two-Mercier-La Mont** Working Pressure **16 Kg/cm²** Tested by Hydraulic Pressure to **27 Kg/cm²** Date of Test **11-12-53**

Certificate **113 & 114** Can each boiler be worked separately **Yes** Total Heating Surface of Boilers **158.04 M²**
 ced draught fitted **Yes** Area of Fire Grate (coal) in each Boiler **---** **69.44 M² S'HTRS.**
 nd type of burners (oil) in each boiler **2 - Todd type** **Union Naval de Levante** **160.40 M² ECONS.**

No. and description of safety valves on
 boiler **1-76 mm. H.L. Double Spring** ✓ Area of each set of valves per boiler { per rule **App.**
 as fitted **9193 mm²** Pressure to which they

adjusted **16 Kg/cm²** ✓ Are they fitted with easing gear **Yes** ✓ In case of donkey boilers state whether steam from main boilers can enter
 donkey boiler **No** Smallest distance between boilers or uptakes and bunkers or woodwork **1 M.** Height of boiler **5260 mm.**

h and length **2600 & 3900** Steam Drums:—Number in each boiler **One** ✓ Inside diameter **1260 mm** ✓
 n Mark **AS 31-12** Thickness of plates **20 mm.** ✓ Range of tensile strength **44 - 55 Kgs/mm²** ✓ Are drum shell plates welded

ged **---** If fusion welded, state name of welding firm **---** Have all the requirements of the Rules
 Class I vessels been complied with **---** Description of riveting:—Circ. seams **D.R.L.** ✓ long. seams **D.R. D.B.S.** ✓

eter of rivet holes in long. seams **26 mm.** ✓ Pitch of rivets **104 mm.** ✓ Thickness of straps **20 mm.** ✓ Percentage strength of
 joint:—Plate **75 %** Rivet **71.5 %** Diameter of tube holes in drum **25.6 mm.** ✓ Pitch of tube holes **108 mm.** ✓

entage strength of shell in way of tubes **76.4 %** Steam Drum Heads or Ends:—Range of tensile strength **41.47 Kgs/mm²** ✓
 kness of plates **21 & 24 mm** ✓ Radius **940 mm.** ✓ Size of manhole or handhole **400 x 300 mm.** ✓ Water Drums:—Number

ach boiler **None** Inside diameter **---** Thickness of plates **---** Range of tensile strength **---** Are drum shell plates
 led or flanged **---** If fusion welded, state name of welding firm **---** Have all the requirements of the Rules

Class I vessels been complied with **---** Description of riveting:—Circ. seams **---** long. seams **---**
 eter of rivet holes in long. seams **---** Pitch of rivets **---** Thickness of straps **---**

centage strength of long. joint:—Plate **---** Rivet **---** Diameter of tube holes in drum **---** Pitch of tube holes **---**
 centage strength of drum shell in way of tubes **---** Water Drum Heads or Ends:—Range of tensile strength **---**

ckness of plates **---** Radius or how stayed **---** Size of manhole or handhole **---**
 iders or Sections:—Number **3 each** ✓ Material **Cast Steel** Thickness **30 mm.** ✓ Tested by hydraulic pressure to **50 Kgs/cm²**

es:—Diameter **25.4 mm.** ✓ Thickness **3 mm.** ✓ Number **80 each** ✓ Steam Dome or Collector:—Description of
 nt to shell **---** Inside diameter **---** Thickness of shell plates **---** Range of tensile

ngth **---** Description of longitudinal joint **---** If fusion welded, state name of welding
 Classed in **---** Have all the requirements for the Rules for Class I vessels been complied with **---** Diameter of rivet holes **---**

D.B. 180 Lb h of rivets **---** Thickness of straps **---** Percentage strength of long. joint **---** plate **---** rivet **---**
 own or End Plates:—Range of tensile strength **---** Thickness **---** Radius or how stayed **---**

PERHEATER, Drums or Headers:—Number in each boiler **Two** ✓ Inside diameter **140 mm.** ✓
 ckness **20 mm.** ✓ Material **M. S.** ✓ Range of tensile strength **41.47 Kgs./cm²** ✓ Are drum shell plates welded

flanged **Solid drawn** ✓ If fusion welded, state name of welding firm **---** Have all the requirements of the Rules
 Class I vessels been complied with **---** Description of riveting:—Circ. seams **---** long. seams **---**

eter of rivet holes in long. seams **---** Pitch of rivets **---** Thickness of straps **---** Percentage strength of
 g. joint:—Plate **---** Rivet **---** Diameter of tube holes in drum **25.6 mm.** ✓ Pitch of tube holes **54 mm.** ✓ Percentage strength of

um shell in way of tubes **---** Drum Heads or Ends:—Welded ✓ Thickness **25 mm.** ✓ Range of tensile strength **---**
 dius or how stayed **---** Size of manhole or handhole **---** Number, diameter, and thickness of tubes **---**

No. 9870 sted by hydraulic pressure to **50 Kgs/cm²** Date of test **11-12-53** & **---** Is a safety valve fitted to each section of the superheater which
 be shut off from the boiler **---** No. and description of safety valves **---** Area of each set

3 AB. 18-4 valves **---** Pressure to which they are adjusted **---** Is easing gear fitted **---**
 are Gear. Has the spare gear required by the Rules been supplied **Yes** ✓

ASTILLEROS DE CADIZ, S. A.
 The foregoing is a correct description,

[Signature] Manufacturer.

Is the approved plan of boiler forwarded herewith **Yes**

Total No. of visits **23**

this boiler a duplicate of a previous case **Yes** If so, state vessel's name and report No. **S.S. "ANCUD" CdZ. Report No. 2187**

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. The boilers have been constructed in
 accordance with the Rules, approved plans and Secretary's letters. Tested to 27 Kgs/cm²,
 satisfactorily installed on board the vessel, the Safety Valves adjusted to W.P. of 16 Kgs./cm²
 nd accumulation tests satisfactorily carried out.

Survey Fee ... £ : : When applied for 19
 Travelling Expenses (if any) £ : : When received 19

FRIDAY 3-DEC-1954

[Signature]
 Engineer Surveyor to Lloyd's Register of Shipping.

Date
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