

## REPORT ON BOILERS.

No. 14090

Received at London Office

JAN 1955

Date of writing Report 12th January 1955 When handed in at Local Office 15th Jan 1955 Port of TRIESTE

No. in Survey held at Monfalcone - Trieste Date, First Survey See Rpt. Last Survey 46 19

Reg. Book. 90362 on the M. "ELDERAMINE" (Number of Visits...✓) Gross 12505 Tons Net 7406

Master ✓ Built at Monfalcone By whom built Cant. Rinn. dell'Adr. Yard No. 1793 When built 1954

Engines made at Trieste By whom made Cant. Rinn. dell' Adriatico Engine No. 5596 When made 1954

Boilers made at -do- By whom made -do- Boiler No. 1983 1984 When made 1954

Nominal Horse Power 1610 Owners "ROMSA" - Raffineria Olio Minerale S.A. Port belonging to OPENOA

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY, OR~~ DONKEY.

Manufacturers of Steel OESTERREICHISCH-ALPINE MONTAN-GESELLSCHAFT - Donawitz (Letter for Record...✓)

Total Heating Surface of Boilers 250 sq. wt. each ✓ Is forced draught fitted yes Coal or Oil fired oil & ex. gas

No. and Description of Boilers 2 - Cylindrical multitubular ✓ Working Pressure 12 kg/cm<sup>2</sup>

Tested by hydraulic pressure to 21.5 kg/cm<sup>2</sup> Date of test 22/5/54 No. of Certificates 410 411 Can each boiler be worked separately yes

Area of Firegrate in each Boiler ✓ No. and Description of safety valves to each boiler two - spring loaded ✓

Area of each set of valves per boiler { per Rule 11666 cm<sup>2</sup> as fitted 12725 cm<sup>2</sup> Pressure to which they are adjusted 12 kg/cm<sup>2</sup> 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 or woodwork ample Is oil fuel carried in the double bottom under boilers no

Smallest distance between shell of boiler and tank top plating ample Is the bottom of the boiler insulated yes

Largest internal dia. of boilers H380 mm ✓ Length 3736 mm Shell plates: Material S.M.S. Tensile strength H4 kg/mm<sup>2</sup> min. ✓

Thickness 31 mm ✓ Are the shell plates welded or flanged riveted ✓ Description of riveting: circ. seams { end D.R. ✓ inter T.R. ✓ long. seams T.R.D.B.S. ✓ Diameter of rivet holes in { circ. seams 35 mm ✓ long. seams 35 mm ✓ Pitch of rivets { end 105.03 mm - int. 127.4 mm ✓ 224 mm ✓

Percentage of strength of circ. end seams { plate 66.7 rivets H8.2 Percentage of strength of circ. intermediate seam { plate 75 rivets 60

Percentage of strength of longitudinal joint { plate 85.2 rivets 94.4 combined 88.7 Working pressure of shell by Rules 13.1 kg/cm<sup>2</sup> at joints

Thickness of butt straps { outer 24 mm ✓ inner 27 mm ✓ No. and Description of Furnaces in each Boiler 3 corrugated (Morrison type) ✓

Material S.M.S. ✓ Tensile strength H1 kg/mm<sup>2</sup> min. ✓ Smallest outside diameter 1079 mm ✓

Length of plain part { top ✓ bottom ✓ Thickness of plates 14.5 mm ✓ Description of longitudinal joint welded ✓

Dimensions of stiffening rings on furnace or c.c. bottom ✓ Working pressure of furnace by Rules ✓

End plates in steam space: Material S.M.S. ✓ Tensile strength H1 kg/mm<sup>2</sup> min. ✓ Thickness 29 mm ✓ Pitch of stays H40 x H20 mm ✓

How are stays secured double nuts ✓ Working pressure by Rules ✓

Tube plates: Material { front } S.M.S. ✓ Tensile strength { } H1 kg/mm<sup>2</sup> min. ✓ Thickness { } 23 mm ✓ 20 mm ✓

Mean pitch of stay tubes in nests 206 x 206 mm ✓ Pitch across wide water spaces 376 mm ✓ Working pressure { front ✓ back ✓

Girders to combustion chamber tops: Material S.M.S. ✓ Tensile strength H4 kg/mm<sup>2</sup> min. ✓ Depth and thickness of girder at centre 250 x 30 mm ✓ Length as per Rule 910 mm ✓ Distance apart 200 mm ✓ No. and pitch of stays in each welded ✓ Working pressure by Rules ✓

Tensile strength H1 kg/mm<sup>2</sup> min. ✓ Thickness: Sides 19 mm ✓ Back 19 mm ✓ Top 19 mm ✓ Bottom 22 mm ✓

Pitch of stays to ditto: Sides 220 x 200 mm ✓ Back { 213 x 193.4 } mm ✓ Top ✓ Are stays fitted with nuts or riveted over { part riveted ✓ part nutted ✓

Working pressure by Rules ✓ Front plate at bottom: Material S.M.S. Tensile strength H1 kg/mm<sup>2</sup> min. ✓

Thickness 23 mm Lower back plate: Material S.M.S. ✓ Tensile strength H1 kg/mm<sup>2</sup> min. ✓ Thickness 25 mm ✓

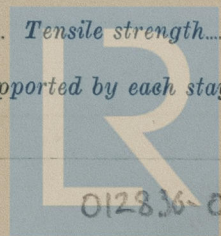
Pitch of stays at wide water space ✓ Are stays fitted with nuts or riveted over ✓

Working pressure ✓ Main stays: Material S.M.S. ✓ Tensile strength H4 kg/mm<sup>2</sup> min. ✓

Diameter { At body of stay 76 mm ✓ or No. of threads per inch 6 ✓ Area supported by each stay H40 x H20 mm ✓

Working pressure by Rules ✓ Screw stays: Material S.M.S. ✓ Tensile strength H1 kg/mm<sup>2</sup> min. ✓

Diameter { At turned off part 38 mm ✓ or No. of threads per inch 9 ✓ Area supported by each stay 213 { 193.4 } mm ✓ { 177.75 } mm ✓

Lloyd's Register  
Foundation



Working pressure by Rules... Are the stays drilled at the outer ends... Margin stays: Diameter...  
No. of threads per inch... Area supported by each stay... Working pressure by Rules...  
Tubes: Material... External diameter... Thickness... No. of threads per inch...  
Pitch of tubes... Working pressure by Rules... Manhole compensation: Size of opening...  
shell plate... Section of compensating ring... No. of rivets and diameter of rivet holes...  
Outer row rivet pitch at ends... Depth of flange if manhole flanged... Steam Dome: Material...  
Tensile strength... Thickness of shell... Description of longitudinal joint...  
Diameter of rivet holes... Pitch of rivets... Percentage of strength of joint...  
Internal diameter... Working pressure by Rules... Thickness of crown... No. and diameter of  
stays... Inner radius of crown... Working pressure by Rules...  
How connected to shell... Size of doubling plate under dome... Diameter of rivet holes and pitch  
of rivets in outer row in dome connection to shell...

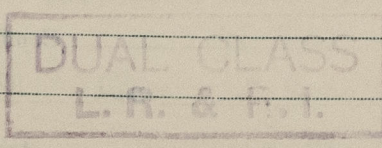
Type of Superheater... none... Manufacturers of...  
Number of elements... Material of tubes... Internal diameter and thickness of tubes...  
Material of headers... Tensile strength... Thickness... Can the superheater be shut off and  
the boiler be worked separately... Is a safety valve fitted to every 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 of  
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

The foregoing is a correct description,  
CANTIERI RIUNITI DELL'ADRIATICO  
CANTIERE NAVALE MONFALCONE

Dates of Survey while building... During progress of work in shops... During erection on board vessel...  
Are the approved plans of boiler and superheater forwarded herewith... yes  
Total No. of visits...

Is this Boiler a duplicate of a previous case... yes... If so, state Vessel's name and Report No. "FIACCOLA" - Tri. Rpt. No. 13997

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)...  
These boilers have been constructed under special survey from tested materials and in accordance with Society's Rules and approved plan.-  
The materials and workmanship are good.-  
The boilers were efficiently installed on board the vessel, a satisfactory accumulation test made under steam, found tight and the safety valves adjusted for a working pressure of 12 kg/cm<sup>2</sup>.  
These boilers, in my opinion, are eligible to be classed with record of:  
2 DB - 171 TB.



261-55  
Lire 194.400.- Pass 15% for Survey Fee dual class car fund  
Travelling Expenses (if any) £ 3% Rec. Tax.  
165.240.  
4.130.  
4.130.  
5.205.

When applied for... 15th Jan 1955  
When received...

Mesari

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute... FRIDAY 11 FEB 1955

Assigned... See Rpt 116



© 2021 Lloyd's Register Foundation