

REPORT ON BOILERS.

No. 2153.

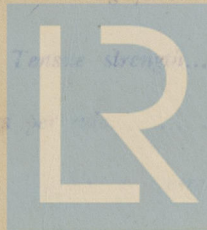
JUN 1943

Received at London Office

Date of writing Report 5th May, 43. When carried in at Local Office 7th May, 43. Port of Maharrö.
Name Survey held at Maharrö. Date, First Survey 28th Febr. 1942. Last Survey 8th March, 43.
Reg. Book on the Maharrö M/s "LA PLATA" (Number of Visits 12) Tons Gross 7372, Net 4329
Built at Maharrö By whom built Hockmarrs Mekt. V. A. O. Yard No. 251 When built 1943
Engines made at Maharrö By whom made Hockmarrs Mekt. V. A. O. Engine No. 302/3 When made 1943.
Boilers made at Lurrid By whom made Carl Holmbergs Mekt. V. A. O. Boiler No. 4319 When made 1943.
Crews Rederiaktiebolaget Nordstjärnan Port belonging to Stockholm.

VERTICAL DONKEY BOILER.

Made at Lurrid By whom made Carl Holmbergs M. V. A. O. Boiler No. 4319 When made 1943 Where fixed In motor space.
Manufacturers of Steel Segerfors Järnverks A. O., Segerfors.
Total Heating Surface of Boiler 30 m² = 323 sq ft Is forced draught fitted No Coal or Oil fired Oil
No. and Description of Boilers One vertical donkey boiler with horizontal tubes. Working pressure 7 kg. cm².
Tested by hydraulic pressure to 200 lbs./sq. in. Date of test 7-5-1942 No. of Certificate 114
Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 2. Direct spring loaded.
Area of each set of valves per boiler { per rule 3270 mm² Pressure to which they are adjusted 100 lbs./sq. in. Are they fitted with easing gear Yes.
as fitted 3937 mm²
State whether steam from main boilers can enter the donkey boiler Yes Smallest distance between boiler or uptake and bunkers or woodwork 1850 mm.
Is oil fuel carried in the double bottom under boiler Yes Smallest distance between base of boiler and tank top plating 1725 mm. Total 3990 mm.
Is the base of the boiler insulated No Largest internal dia. of boiler 1725 mm. Height 3990 mm.
Shell plates Material Steel Tensile strength 45.9 - 46.7 kg. mm² Thickness 12.5 mm.
Are the shell plates rolled or flanged No Description of riveting circ. seams { end 1. R. long seams 1. R.
inter 1. R.
Dia. of rivet holes in { circ. seams 20 mm. Pitch of rivets 50 mm. Percentage of strength of circ. seams { plate 60% of Longitudinal joint { plate 71.0% 70.2%
long seams 20 mm. 67 mm. rivets 39.4% 41.6% rivets 58.8% 61.3%
combined
Working pressure of shell by rules 8.4 kg. cm² Thickness of butt straps { outer 15 mm.
inner 15 mm.
Shell Crown: Whether complete hemisphere, dished partial spherical, or flat Dished partial spherical Material Steel
Tensile strength 45.8 kg. mm² Thickness 15 mm. Radius 1360 mm. Working pressure by rules 10.2 kg. cm².
Description of Furnace: Plain, spherical or dished crown Plain Material Steel Tensile strength 44.7-45.6 kg. mm².
Thickness 16 mm. External diameter 1532 mm. Length as per rule 767 mm. Working pressure by rules 9.3 kg. cm².
Pitch of support stays circumferentially and vertically Are stays fitted with nuts or riveted over Yes
Diameter of stays over thread 15 mm. Radius of spherical or dished furnace crown 1500 mm. Working pressure by rule 7.8 kg. cm².
Thickness of Ogee Ring 19 mm. Diameter as per rule { D 1500 mm.
a 1500 mm. Working pressure by rule 8.1 kg. cm².
Combustion Chamber: Material Steel Tensile strength 44.7-44.8 kg. mm² Thickness of top plate 19 mm.
Radius if dished 374 mm. Working pressure by rule 30.2 kg. cm². Thickness of back plate 19 mm. Diameter of circular 1500 mm.
Length as per rule 1300 mm. Pitch of stays 225 x 750 mm. Are stays fitted with nuts or riveted over No.
Diameter of stays over thread 1 1/4" Working pressure of back plate by rules 8.1 kg. cm².
Tube Plates: Material { front Steel Tensile strength 45.8 kg. mm² Thickness 19 mm.
back Steel Tensile strength 44.7 " Thickness 19 mm. Mean pitch of stay tubes in nests 264 mm.
If compressing shell True as per rule { front Yes Pitch in outer vertical rows { front Yes
back Yes Dia. of tube holes FRONT { front Yes
back Yes BACK { front Yes
back Yes Working pressure by rule 8.9 kg. cm².
each alternate tube in outer vertical rows a stay tube No Working pressure by rule 8.9 " Tensile strength 8.9 " Length as per rule 1300 mm.



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Crown stays: Material ☒ Tensile strength ☒ No. of threads per inch ☒ Area supported by each stay ☒ Working pressure by rules ☒ 1 JUN 1943

Screw stays: Material *Steel* Tensile strength *41 kg. mm²* Diameter *1 1/4"* No. of threads per inch *9*

Area supported by each stay *No. per plan.* Working pressure by rules ☒ Are the stays drilled at the outer ends ☒ *No*

Tubes: Material *Steel* External diameter *63.5 mm.* Thickness *3.25 mm.*

No. of threads per inch *9* Pitch of tubes *88 mm.* Working pressure by rules *12.5 kg. mm²*

Manhole Compensation: Size of opening in shell plate *None* Section of compensating ring ☒ No. of rivets and diameter *85 mm.*

Uptake: External diameter ☒ Thickness of uptake plate ☒

Gross Tubes: No. ☒ External diameters ☒ Thickness of plates ☒

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with *Yes.*

The foregoing is a correct description.

Manufacturer

Dates: During progress of work on ship *28/2.3/3.11/3.23/3.13/4.29/4.7/5.1942* Is the approved plan of boiler forwarded herewith *1-12-1941.*

While building *2/11.17/11.21/12.1942.2/2.8/3.1943.* Total No. of visits *12*

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.)

The donkey boiler has been built under special survey in accordance with the Rules and approved plans.

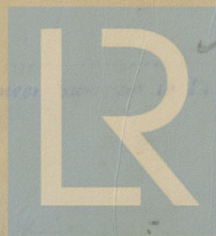
The material used has been tested as per Rule and the workmanship is good.

Survey Fee *12k. 79.80* When applied for *11th May. 42.*

Travelling Expenses (any) *12k. 6.00* When received, *16th May. 42.*

FRI. 11 JUN 1943

See Memo J.E. Rpt. Mch.



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