

RECEIVED

Rpt. 5b. 22 MAY 1946  
IN D.O.

## REPORT ON BOILERS.

No. 14721.

Received at London Office 22 MAY 1946

Date of writing Report 13th May 1946. When handed in at Local Office 17th May 1946. Port of Gothenburg.

No. in Survey held at Gothenburg. Date, First Survey 8th December 1945 Last Survey 11th January 1946.

Reg. Book. on the (Number of Visits 4) Gross 1800 Tons Net

Built at Malmö By whom built Kockums Mek. Verkstads A-B. Yard No. 284/5 When built 1946

Engines made at Malmö By whom made Kockums Mek. Verkstads A-B. Engine No. --- When made 1946

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

Owners Rederi A-B. Aktiv Port belonging to Hålsingborg

## VERTICAL BOILER.

Made at Motala By whom made A-B. Motala Verkstad Boiler No. 3153 When made 1946 Where fixed ---

Manufacturers of Steel Avesta Jernverks A-B., Avesta, Sweden.

Total Heating Surface of Boiler 5 M<sup>2</sup> Is forced draught fitted --- Coal or Oil fired Oil

No. and Description of Boilers One vertical multitubular donkey boiler Working Pressure 2 kg/cm<sup>2</sup>

Tested by hydraulic pressure to 4 kg/cm<sup>2</sup> Date of test 11th January 1946 No. of Certificate 483

Area of fire grate in each Boiler --- No. and description of safety valves to each boiler One double spring loaded

Diam. of each set of valves per boiler { per Rule 50 mm. ✓ as fitted 2 x 38 mm. Pressure to which they are adjusted --- Are they fitted with easing gear Yes

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 700 mm. Height 2200 mm.

Shell plates: Material S.M. Steel Tensile strength 41-55 kg/mm<sup>2</sup> Thickness 7 mm.

Are the shell plates welded or flanged No 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 { end Single lap inter. ---

long. seams Single lap Dia. of rivet holes in { circ. seams 17 mm. ✓ Pitch of rivets { 41.5 mm. ✓ Percentage of strength of circ. seams { plate 59 % rivets 68.6 %

of longitudinal joint { plate 59 % rivets 68.6 % Thickness of butt straps { outer --- inner --- Shell Crown: Whether complete hemisphere, dished partial spherical, or flat Dished partial spherical Material S.M. Steel Tensile strength 41-47 kg/mm<sup>2</sup> Thickness 10 mm.

Radius 560 mm. and Combustion Chamber Description of Furnace: Plain, spherical, or dished crown Part dished Material S.M. Steel

Tensile strength 41-47 kg/mm<sup>2</sup> Thickness Top 10 mm. Side 7 mm. External diameter { top 520 mm. Length as per Rule 875 mm. bottom 564 mm.

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

Diameter of stays over thread --- Combustion Chamber Crown 410 mm. Radius of dished furnace crown 450 mm.

Thickness of Ogee Ring 7 mm. Diameter as per Rule { D 650 mm. ✓ d 564 mm. ✓

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 S.M. Steel Tensile strength 41-47 kg/mm<sup>2</sup> Thickness 12 mm. ✓ Mean pitch of stay tubes in nests 170 mm. back S.M. Steel 41-47 kg/mm<sup>2</sup> 12 mm. ✓

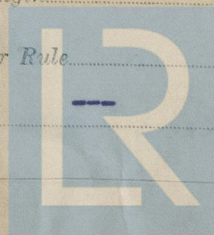
If comprising shell, dia. as per Rule { front --- Pitch in outer vertical rows { --- Dia. of tube holes FRONT { stay --- BACK { stay --- plain --- plain ---

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 ---



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Crown Stays: Material None Tensile strength --- Diameter { at body of stay... ---  
 No. of threads per inch --- Screw Stays: Material S.M. Steel Tensile strength 41-47 kg/mm<sup>2</sup>  
 Diameter { 35 mm. No. of threads per inch --- Are the stays drilled at the outer ends ---  
 Tubes: Material S.M. Steel External diameter { plain 51 mm. Thickness { 3 mm.  
 No. of threads per inch 9 stay 51 mm. Pitch of tubes 8 x 80 or 100 mm.  
 Manhole Compensation: Size of opening in shell plate 300 x 230 mm. Section of compensating ring 2 x 15 x 55 mm. No. of rivets and diameter  
 of rivet holes 25  $\phi = 17$  mm. Outer row rivet pitch at ends 42 mm. Depth of flange if manhole flanged ---  
 Uptake: External diameter --- Thickness of uptake plate ---  
 Cross 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.  
 ANTEBOLAGET ROTALA VERKSTAD  
 ANGTEKNISKA AVDELNINGEN Manufacturer.  
 Torst. Vagners

Dates of Survey { During progress of work in shops - - 8th December 1945 - 11th January 1946 Is the approved plan of boiler forwarded herewith Got. 28.8.1945  
 while building { During erection on board vessel - - - --- Total No. of visits 4

Is this Boiler a duplicate of a previous case No If so, state Vessel's name and Report No. See Kockkums 283 for plan

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)  
 This donkey boiler has been built under special survey and the Rule requirements have been complied with.

The workmanship is good and the materials are as per test sheets attached to Gothenburg Report No. on a duplicate boiler for Kockkums Mek. Verkstads A-B., Yard No. 283 now forwarded.

The boiler has been marked:

No. 483  
 LLOYD'S TEST 4 kg.  
 WP 2 kg.  
 AS11.1.46

A plan of the boiler as built is attached.

Survey Fee ... Kr. 80:00 : When applied for 17th May 19 46.  
 Travelling Expenses (if any) £ --- : When received 19 --

Anders Sjögren  
 Engineer Surveyor to Lloyd's Register of Shipping.

Date FRI. 12 MAR 1946  
 Committee's Minute For minute see J.E. Rpt