

# REPORT ON BOILERS.

No. 19737

Received at London Office.....

Port 10th April 1953 When handed in at Local Office 14th April 1953 Port of Gothenburg

Survey held at Gothenburg Date, First Survey Last Survey 19

Single Screw Motorship "BOKEFORS" (Number of Visits.....) Tons Gross 2944 Net 1557

Gothenburg By whom built Aalborg Vaerf A/S Yard No. 81 When built 1946

Copenhagen By whom made Burmeister & Wain Engine No. 1347 When made 1946

Aalborg By whom made Aalborg Vaerf A/S Boiler No 545/6/7 When made 1946

Owner 324 Owners AB Allhems Förlag (Rederi AB Clipper) Port belonging to Malmö.

## ULAR BOILERS MAIN, AUXILIARY OR DONKEY

Material of Steel (Letter for Record S.)

Surface of Boilers 450 sq.m. = 4842 sq.feet Of Superheaters 201 m<sup>3</sup> = 2063 sq.feet

er Book 6905 sq.feet Is forced draught fitted Yes Coal or Oil fired oil

ption of Boilers 3 Multitubular Capus boilers Working Pressure 228 lbs/sq.in<sup>2</sup>

ulic pressure to 392 Date of test 7.9.45 No. of Certificate Can each boiler be worked separately Yes

te in each Boiler No. and Description of safety valves to each boiler 2 double springloaded

t of valves per boiler per Rule 5350 mm<sup>2</sup> as fitted 5650 mm<sup>2</sup> Pressure to which they are adjusted 228 lbs/sq.in<sup>2</sup> Are they fitted with easing gear Yes

y boilers, state whether steam from main boilers can enter the donkey boiler No donkey boiler fitted

e between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers No

e between shell of boiler and tank top plating 420 mm. Is the bottom of the boiler insulated Yes

ked. dia. of boilers 3500 mm. Length 3610 mm. Shell plates: Material SM Steel Tensile strength 47-56 kg/mm<sup>2</sup>

ng 560, state name of welding Firm Have all the requirements of the Rules for Class I vessels

th Thickness 29 mm Are the shell plates welded or flanged Description of riveting: circ. seams end lap joint inter

ble butt strap Diameter of rivet holes in circ. seams 32 mm. long seams 32 mm. Pitch of rivets 99 mm. 212 mm.

strength of circ. end seams plate 67.6 rivets 42.8 Percentage of strength of circ. intermediate seam plate rivets

strength of longitudinal joint plate 85 rivets 94 combined 86.3

tt straps outer 29 inner 29 No. and Description of Furnaces in each Boiler 2 Morison corrugated

SM Steel Tensile strength Smallest outside diameter 1032 mm.

part top 210 bottom Thickness of plates 16-17.5 mm. Description of longitudinal joint El. welded

stiffening rings on furnace or c.c. bottom

eam space: Material SM Steel Tensile strength 41-50 kg/mm<sup>2</sup> Thickness 29.5 mm. Pitch of stays 475 x 350 mm.

secured Nuts and washer outside and inside

Material front SM Steel back SM Steel Tensile strength 41-50 kg/mm<sup>2</sup> Thickness 29.5 mm.

stay tubes in nests 227.5 Pitch across wide water spaces 370 mm.

Combustion chamber tops: Material Tensile strength Depth and thickness of girder

Length as per Rule Distance apart No. and pitch of stays

Combustion chamber plates: Material Thickness: Sides Back Top Bottom

ditto: Sides Back Top Are stays fitted with nuts or riveted over

bottom: Material SM Steel Tensile strength 41-50 kgs/mm<sup>2</sup>

2.5 mm. Lower back plate: Material SM Steel Tensile strength 41-50 kgs/mm<sup>2</sup> Thickness 29.5 mm.

wide water space Are stays fitted with nuts or riveted over

Material SM Steel Tensile strength 41-50 kg/mm<sup>2</sup>

y of stay 70 No. of threads per inch 6

Material Tensile strength

ned off part No. of threads per inch

Material Tensile strength

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Material Tensile strength

ned off part No. of threads per inch

Material Tensile strength

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STEAM DRUMS: Material: SM Steel: Tensile strength 41-50 kg/mm<sup>2</sup>; Thickness of shell: 25 mm.  
Longitud. Joint: EW., Internal dia: UPPER 450 mm. LOWER 500 mm: Connected to backplate: EW.  
Are the stays drilled at the outer ends..... Margin stays: Diameter.....  
No. of threads per inch.....  
Tubes: Material SM Steel External diameter { Plain..... 83 mm. ✓  
Stays..... 83 mm. ✓ Thickness { 4 mm. ✓  
8 mm. ✓ No. of threads per inch.....  
Pitch of tubes..... 110 mm. ✓ Manhole compensation:  
shell plate..... 320 x 420 ✓ Section of compensating ring..... 10.020 mm<sup>2</sup> ✓ No. of rivets and diameter of rivet holes..... 36 d=.....  
Outer row rivet pitch at ends..... 99 mm. ✓ Depth of flange if manhole flanged.....  
Tensile strength 41-50 kg/mm<sup>2</sup> ✓ Thickness of shell..... 15 mm. ✓ Description of longitudinal joint..... Electrical welded  
Diameter of rivet holes..... Pitch of rivets..... Percentage of strength of joint { Plate.....  
Rivets.....  
Internal diameter..... 770 mm. ✓ Thickness of crown..... 18 mm. ✓  
stays..... Inner radius of crown..... 125 mm. ✓  
How connected to shell..... Riveted ✓ Size of doubling plate under dome.....  
of rivets in outer row in dome connection to shell..... 29 mm. P-108 mm. ✓  
Type of Superheater Smoke tube superheater ✓ Manufacturers of { Tubes.....  
Steel forgings.....  
Steel castings.....  
Number of elements..... 84 Material of tubes ST. 35.29 Internal diameter and thickness of tubes..... 19.0 and 2.....  
Material of headers ST. 34.11 Tensile strength..... 34-44 kg/mm<sup>2</sup> ✓ Thickness..... 26 mm. - 4.5 mm. ✓ Can the superheater  
the boiler be worked separately Yes ✓ Is a safety valve fitted to every part of the superheater which can be shut off from the boiler  
Area of each safety valve..... 1250 cm<sup>2</sup> ✓ Are the safety valves fitted with easing gear..... -yes ✓  
Pressure to which the safety valves are adjusted..... 16 kgs/cm<sup>2</sup> ✓  
tubes..... forgings and castings..... and after assembly in place.....  
valves fitted to free the superheater from water where necessary..... Yes  
Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with.....  
The foregoing is a correct description.....  
Dates of Survey { During progress of work in shops - - -  
while building { During erection on board vessel - - -  
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..... No If so, state Vessel's name and Report No. ....

### GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

The above particulars checked onboard as far as practicable.

The Boilers found marked:

No.545 - 46 - 47
P.D.R. 27.5 kg.
A.D.R. 16.0 kg.
G.S. 7.9.45

from port

KH.

This report for information of the Committee in view of the Owners request to have the class notation for amended from BS to 100 A1.

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

Committee's Minute

Assigned

FRI. 1 MAY 1953

See minute on p. 11.

Engineer Surveyor to Lloyd's Register



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