

## REPORT ON BOILERS.

No. ABG

21210

Received at London Office 23 NOV 1964

Date of writing Report 30-12-1963 When handed in at Local Office 19 Port of Aalborg

No. in Survey held at Aalborg Date, First Survey 1-10-63 Last Survey 10-12-1963

Reg. Book. on the (Number of Visits 6) Tons { Gross Net

Built at Nakskov By whom built Nakskov Skibsværft A/S Yard No. 172 When built 1964

Engines made at By whom made Engine No. When made

Boilers made at Aalborg By whom made Aalborg Værft A/S Boiler No. 2174 When made 1963

Owners. Port belonging to

## VERTICAL BOILER.

Made at Aalborg By whom made Aalborg Værft A/S Boiler No. 2174 When made 1963 Where fixed

Plates and Stays: Det Danske Stålvalseværk

Manufacturers of Steel Tubes: Messrs. Stewarts and Lloyds Ltd.

Total Heating Surface of each Boiler 45 sq. m Is forced draught fitted Coal or Oil fired oil fired

No. and Description of Boilers 1 - fusion welded vertical water tube boiler Working Pressure 7 kg/cm<sup>2</sup>

Tested by hydraulic pressure to 14 kg/cm<sup>2</sup> Date of test 10th December, 1963 No. of Certificate ABG 184

Area of fire grate in each Boiler No. and description of safety valves to each boiler

Area of each set of valves per boiler { per Rule as fitted 2x2460 mm Pressure to which they are adjusted 7 kg/cm<sup>2</sup> 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 1878 mm Height 3420 mm

Shell plates: Material SM steel Tensile strength 46-47 kg/mm<sup>2</sup> Thickness 11.0 mm

Are the shell plates welded or flanged welded If fusion welded, state name of welding firm Aalborg Værft A/S

Have all the requirements of the Rules for Class I vessels been complied with yes Description of riveting: circ. seams { end. inter. long. seams - Dia. of rivet holes in { circ. seams - long. seams - Pitch of rivets { Thickness of butt straps { outer inner

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat dished Material SM steel Tensile strength 44 kg/mm<sup>2</sup> Thickness 14 mm

Radius 1520 mm Description of Furnace: Plain, spherical, or dished crown dished Material SM steel

Tensile strength 45 kg/mm<sup>2</sup> Thickness 16 mm External diameter { top 1500 mm bottom 1700 mm Length as per Rule 780 mm

Pitch of support stays circumferentially and vertically 1 off Are stays fitted with nuts or riveted over welded

Diameter of stays over thread 75 mm Radius of spherical or dished furnace crown 1200 mm

Thickness of Ogee Ring 25 mm with 16 off 16 mm gussets Diameter as per Rule { D 1878 mm d 1700 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 SM steel back SM steel Tensile strength { 43 kg/mm<sup>2</sup> 43 kg/mm<sup>2</sup> Thickness { 22 mm 22 mm Mean pitch of stay tubes in nests see app. plan

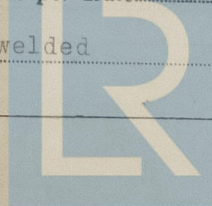
If comprising shell, dia. as per Rule { front back Pitch in outer vertical rows { Dia. of tube holes FRONT { stay 63.5 mm plain 63.5 mm BACK { stay 63.5 mm plain 63.5 mm

Is each alternate tube in outer vertical rows a stay tube please see app. plan

Girders to Combustion Chamber Tops: Material SM steel Tensile strength 46 kg/mm<sup>2</sup>

Depth and thickness of girder at centre 105 x 25 mm Length as per Rule 390 x 310 mm

Distance apart 250 mm No. and pitch of stays in each welded



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Crown Stays: Material SM steel Tensile strength 42 kg/mm<sup>2</sup> min Diameter { at body of stay, 75 mm  
or over threads

No. of threads per inch welded Screw Stays: Material - Tensile strength -

Diameter { at turned off part, - No. of threads per inch - Are the stays drilled at the outer ends yes  
or over threads

Tubes: Material SM steel External diameter { plain 63.5 mm Thickness { 3.75 mm  
stay 63.5 mm 8.8 mm

No. of threads per inch welded Pitch of tubes 88 x 150 mm

Manhole Compensation: Size of opening in shell plate 300 x 400 mm Section of compensating ring 100 x 22 mm No. of rivets and diameter  
of rivet holes welded Outer row rivet pitch at ends - Depth of flange if manhole flanged -

Uptake: External diameter - Thickness of uptake plate -

Down Cross Tubes: No. 2 External diameters { 318 mm Thickness of plates 8 mm



Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with yes  
AALBORG VERFT A/S

The foregoing is a correct description,  
10 JAN. 1964  
H. Kedelafdelingen, Manufacturer.

Dates of Survey while building { During progress of work in shops - - 1/10-63 to 10/12-63 Is the approved plan of boiler forwarded herewith yes AQ3-31239  
(If not state date of approval.)  
During erection on board vessel - - - Total No. of visits -

Is this Boiler a duplicate of a previous case yes If so, state Vessel's name and Report No. Ateliers et chantiers yard no. 14410-14420-14430-14440

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

This boiler has been built under Special Survey in accordance with the requirements of the Society's Rules,  
the approved plan AQ3-31239 and the Secretary's letters.  
The material used has been tested as required by the Rules, the workmanship being good.  
On completion the boiler was hydraulic tested to 14 kg/cm<sup>2</sup> and found sound and tight,  
Certificates covering the material used are attached.

Survey Fee ... £ 350 : When applied for 19/1 64 19  
Travelling Expenses (if any) £ : : When received 19

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

Date FRIDAY 15 JAN 1965  
Committee's Minute See Rep. 1.



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