

BUILT UNDER N.V. SURVEY

REPORT ON BOILERS.

No. 13353

Received at London Office 12 FEB 1951

Date of writing Report 27-1-1951 When handed in at Local Office 19 Port of Copenhagen

No. in Survey held at Aalborg & Nakskov Date, First Survey 21-11-50 Last Survey 11-1-1951

Reg. Book. 64946 on the m/v. "Jutlandia" (Number of Visits 6) Gross Tons Net

Built at Nakskov By whom built Nakskov Skibs A/S Yard No. When built 1934

Engines made at Copenhagen By whom made Chr. Burmeister & Wain Engine No. When made 1934

Boilers made at Aalborg By whom made Aalborg Værft A/S Boiler No. 1146 When made 1950

Owners A/S Det Østasiatiske Kompagni Port belonging to Copenhagen

OIL ENGINES

VERTICAL BOILER.

CONTINUOUS SURVEY.
Nº 4 LOWER

Made at Aalborg By whom made Aalborg Værft A/S Boiler No. 1146 When made 1950 Where fixed HOLD

Manufacturers of Steel Vagle Bolte, Mörtel Fabrik and Vithovse steelworks national corporation

Total Heating Surface of Boiler 2 off 40 m² Is forced draught fitted yes Coal or Oil fired OilNo. and Description of Boilers 2 off Vertical water tube boilers Working Pressure 7 kg/cm²Tested by hydraulic pressure to 14 kg/cm² Date of test 21-11-50 6-11-50 No. of Certificate

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

Area of each set of valves per boiler { per Rule 4816 mm² Pressure to which they are adjusted 100 lb/sq in Are they fitted with easing gear yes

States whether steam from main boilers can enter the donkey boiler No main boiler Smallest distance between boiler or uptake and bunkers

of woodwork Is oil fuel carried in the double bottom under boiler Smallest distance between base of boiler and tank top plating

3 ft Is the base of the boiler insulated yes Largest internal dia. of boiler 1900 mm Height 3200 mm

Shell plates: Material S. M. Steel Tensile strength 46.4 - 47.6 kg/mm² Thickness 11.0 mm

Are the shell plates welded or flanged Riveted 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 lap joint inter single riveted

long. seams lap joint O. R. Dia. of rivet holes in { circ. seams 20 mm Pitch of rivets { 54 mm 68 mm Percentage of strength of circ. seams { plate 63.0 rivets 43.2

of longitudinal joint { plate 70.6 rivets 68.7 Thickness of butt straps { outer inner Shell Crown: Whether complete hemisphere, dished partial

spherical, or flat Dished Material S. M. Steel Tensile strength 43.0 kg/mm² Thickness 11.0 mm

Radius 1520 mm Description of Furnace: Plain, spherical, or dished crown Dished Material S. M. Steel

Tensile strength 41.6 / 47.0 kg/mm² Thickness 16 mm External diameter { top 1500 mm 1730 / 1900 mm Length as per Rule 560 mm

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

Diameter of stays over thread Radius of spherical or dished furnace crown 1216 mm out. ✓

Thickness of Ogee Ring 16.0 mm Diameter as per Rule { D 1900 mm d 1730 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 { Top S. M. Steel Tensile strength { 46.9 - 46.6 kg/mm² Thickness { 19 mm 19 mm Mean pitch of stay tubes in nests 247 mm

If comprising shell, dia. as per Rule { front back Pitch in outer vertical rows { Dia. of tube holes TOP { stay 68 Bot { stay 63.5

Is each alternate tube in outer vertical rows a stay tube

Girders to Combustion Chamber Tops: Material S. M. Steel Tensile strength 45.7 kg/mm²

Depth and thickness of girder at centre 160 mm Length as per Rule

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

Crown Stays: Material *S. M. Steel* Tensile strength *50.0 kgf/cm²* Diameter { at body of stay,
or
over threads..... *69.85*

No. of threads per inch *9 and welded* Screw Stays: Material Tensile strength.....

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

Tubes: Material *S. M. Steel* External diameter { plain..... *63.5 mm*
stay..... *63.5 mm* Thickness { *3 mm*
..... *8 mm*

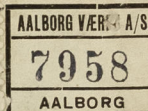
No. of threads per inch..... *9* Pitch of tubes..... *88 mm*

Manhole Compensation: Size of opening in shell plate..... *300 x 400 mm* Section of compensating ring..... *209 x 16 mm* No. of rivets and diameter
of rivet holes..... *40 at 20 mm* Outer row rivet pitch at ends..... *68 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..... *Built to N. V. Survey.*



The foregoing is a correct description,

AALBORG VERFT A/S

Paul Hansen Manufacturer.

Dates of Survey while building { During progress of work in shops - - } Is the approved plan of boiler forwarded herewith..... *yes*
(If not state date of approval.)
{ During erection on board vessel - - - } Total No. of visits.....

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

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

Three boilers were built under the supervision of the Norske Veritas Surveyor as per attached N. V. Boiler certificate

The boilers have now been satisfactorily installed on board the Hospital Ship M. V. "Gullandica" for non-essential services in accordance with the Rule requirements of this Society

The boilers were examined and found in good condition. The scantlings verified as far as practicable and found to be in accordance with the plans. They were afterwards tested under hydraulic pressure with satisfactory results.

Safety valves adjusted under steam to 100 lb./sq. and the oil burning arrangement examined under working conditions.

Survey Fee ... £ : : When applied for..... 19.....

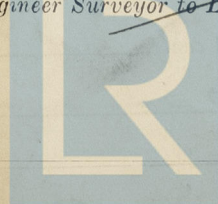
Travelling Expenses (if any) £ : : When received..... 19.....

N. Russell

Engineer Surveyor to Lloyd's Register of Shipping.

Date..... *THU 8 MAR 1951*

Committee's Minute..... *See Rpt 9*



Lloyd's Register
Foundation