

REPORT ON BOILERS.

No. 11475.

Received at London Office 25 AUG 1945

Date of writing Report 12th June 1942 When handed in at Local Office 1942 Port of Copenhagen

No. in Reg. Book. Survey held at Copenhagen Date, First Survey 11th December 40 Last Survey 13th May 1942

on the Single Screw Motor Vessel (Number of Visits 26) Tons { Gross ab 7715 Net ab 4730

Master Built at Copenhagen By whom built Aht. Burmeister & Wain Yard No. 653 When built 1942

Engines made at Copenhagen By whom made Aht. Burmeister & Wain Engine No. 3099 When made 1942

Boilers made at Copenhagen By whom made Aht. Burmeister & Wain Boiler No. 1993 When made 1942

Nominal Horse Power of DB-58 Owners Port belonging to

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Tubes: Double boiler tubes, stays: clean boiler tubes a/c

Manufacturers of Steel Plates: - Kilmarnock Steel & Ironworks Corp. (Letter for Record)

Total Heating Surface of Boilers 80.92 m² = 870 sq ft Is forced draught fitted yes Coal or Oil fired oil fired

No. and Description of Boilers 1 off horizontal multitubular Working Pressure 6.32 kg/cm²

Tested by hydraulic pressure to 12.64 kg/cm² Date of test 4.7.41 No. of Certificate 671 Can each boiler be worked separately

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 2 off direct spring loaded 75 lb dia

Area of each set of valves per boiler (per Rule 6700 6740 Pressure to which they are adjusted 90 lbs Are they fitted with easing gear yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Smallest distance between boilers or uptakes and bunkers 1500 mm Is oil fuel carried in the double bottom under boilers no

Smallest distance between shell of boiler and tank top plating 1500 mm Is bottom of the boiler insulated yes

Largest internal dia. of boilers 2900 mm Length 2986 mm Shell plates: Material S. cl. Steel Tensile strength 44/50 kg/cm²

Thickness 15 mm Are the shell plates welded or flanged no Description of riveting: circ. seams { end Single inter. } long. seams 266 rivets lap joint Diameter of rivet holes in { circ. seams 23 mm long. seams 23 mm } Pitch of rivets { 55 mm 68.25 mm }

Percentage of strength of circ. end seams { plate 58.2 rivets 41.3 } Percentage of strength of circ. intermediate seam { plate rivets }

Percentage of strength of longitudinal joint { plate 66.4 rivets 66.4 combined } Working pressure of shell by Rules 6.65 kg/cm²

Thickness of butt straps { outer inner } No. and Description of Furnaces in each Boiler 2 off Deighton sections

Material S. cl. Steel Tensile strength 41/47 kg/cm² Smallest outside diameter 820 mm

Length of plain part { top bottom } Thickness of plates { crown bottom 10 mm } Description of longitudinal joint welded

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 12.1 kg/cm²

End plates in steam space: Material S. cl. Steel Tensile strength 41/47 kg/cm² Thickness 19 mm Pitch of stays D = 588 mm

How are stays secured and outside Working pressure by Rules 6.93 kg/cm²

Tube plates: Material { front back } S. cl. Steel Tensile strength { 41/47 kg/cm² Thickness { 19 mm }

Mean pitch of stay tubes in nests 282 mm Pitch across wide water spaces 350 x 180 mm Working pressure { front back } 8 kg/cm²

Girders to combustion chamber tops: Material S. cl. Steel Tensile strength 44/50 kg/cm² Depth and thickness of girder at centre 150 x 15 mm X 2 Length as per Rule 630 mm Distance apart 215-220 mm No. and pitch of stays in each 2 off - 200 mm Working pressure by Rules 9.4 kg/cm² Combustion chamber plates: Material S. cl. Steel

Tensile strength 41/47 kg/cm² Thickness: Sides 15 mm Back 15 mm Top 15 mm Bottom 15 mm

Pitch of stays to ditto: Sides 200 x 190 mm Back 207 x 198 mm Top 200 x 220 mm Are stays fitted with nuts or riveted over filled internal

Working pressure by Rules 8.86 kg/cm² Front plate at bottom: Material S. cl. Steel Tensile strength 41/47 kg/cm²

Thickness 19 mm Lower back plate: Material S. cl. Steel Tensile strength 41/47 kg/cm² Thickness 19 mm

Pitch of stays at wide water space D = 468 mm Are stays fitted with nuts or riveted over outside

Working Pressure 9.5 kg/cm² Main stays: Material S. cl. Steel Tensile strength 44/50 kg/cm²

Diameter { At body of stay, or Over threads } 2" - 2 1/4" No. of threads per inch 11 Area supported by each stay abt 175000 mm²

Working pressure by Rules 6.8 kg/cm² Screw stays: Material S. cl. Steel Tensile strength 44/50 kg/cm²

Diameter { At turned off part, or Over threads } 1 1/8" No. of threads per inch 11 Area supported by each stay abt 41000 mm²

Working pressure by Rules 6.7 kg/cm² Are the stays drilled at the outer ends no Margin stays: Diameter 3/8"
 No. of threads per inch 11 Area supported by each stay 51500 cm² Working pressure by Rules 8.95 kg/cm²
 Tubes: Material S.M. Steel External diameter 63.5 mm Thickness 3.25 mm No. of threads per inch 11
 Pitch of tubes 90 x 92 mm Working pressure by Rules 12.5 kg/cm² Manhole compensation: Size of opening in
 shell plate 505 x 405 mm Section of compensating ring flanged No. of rivets and diameter of rivet holes 44 off - 22 mm
 Outer row rivet pitch at ends 97.14 mm Depth of flange if manhole flanged 85 mm Steam Dome: Material -
 Tensile strength Thickness of shell Description of longitudinal joint
 Diameter of rivet holes Pitch of rivets Percentage of strength of joint
 Internal diameter Working pressure by Rules Thickness of crown No. and diameter of
 stays Inner radius of crown Working pressure by Rules
 How connected to shell Size of doubling plate under dome Diameter of rivet holes and pitch
 of rivets in outer row in dome connection to shell
 Type of Superheater Manufacturers of Tubes
 Number of elements Material of tubes Internal diameter and thickness of tubes
 Material of headers Tensile strength Thickness Can the superheater be shut off and
 the boiler be worked separately Is a safety valve fitted to every part of the superheater which can be shut off from the boiler
 Area of each safety valve Are the safety valves fitted with easing gear Working pressure as per
 Rules Pressure to which the safety valves are adjusted Hydraulic test pressure:
 tubes, castings and after assembly in place Are drain cocks or valves fitted
 to free the superheater from water where necessary
 Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with yes

The foregoing is a correct description
 BURMEISTER & WAIN & MASKIN - OG SKIPSBYGGERI
 Manufacturer.

Dates of Survey 1940: 11/2-21/2 1941: 3/5-6/5-13/6-18/6-24/6-4/7 Are the approved plans of boiler and superheater forwarded herewith yes
 work in shops - 1941: 4/6-18/6-25/6-13/10-19/10-14/10-24/10-29/11-25/11 (If not state date of approval.)
 while building During erection on board vessel - 3/2-10/2-18/2-23/2 Total No. of visits 26
1942: 9/1-27/1-12/2-27/3-18/5

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The above Centric boiler has been constructed and fitted under special survey in accordance with the Rules, the approved plans and the requirements contained in the Secretary's letters.

The material used in construction has been tested as required by the Rules and the workmanship is good.

Recommend the vessel's machinery to have notation in the Register Book of DB-90 lbs

Survey Fee ... £ 150.00 When applied for, 21.5 1942
 Travelling Expenses (if any) £ : : When received, 1.8 1942

J. Langkilde Jensen
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

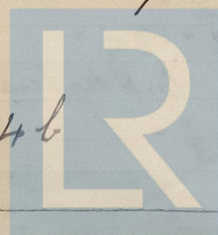
FRI. 11 JAN 1946

FRI. 25 OCT 1945

Assigned

Deferred

See minute on Rpt. 4b



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