

REPORT ON BOILERS.

No. 1826.

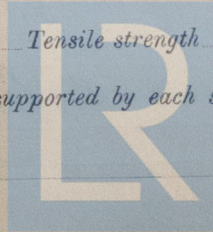
Received at London Office

OCT 30 1939

Date of writing Report 19th Oct. 1939. When handed in at Local Office 24th Oct. 1939. Port of Helsingborg & Mahars.
Landskrona
No. in Survey held at Landskrona Date, First Survey 31st July Last Survey 11th Oct. 1939.
Reg. Book 9655 on the Single Screw Motor Tanker "JANUS" (Number of Visits 6.) Gross 9965 Tons Net 5931
Master Built at Landskrona By whom built Öresundsvarvet A.B. Hard No. 54 When built 1939.
Engines made at Helsingborg By whom made A. B. Götaverken Engine No. 1339 When made 1939.
Boilers made at Helsingborg By whom made Helsingborg & Pilsen Boilers Ltd. Boiler No. 6338/9 When made 1939.
Nominal Horse Power 653 Owners Rederi A. B. Nordstjernan Port belonging to Helsingborg.

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel (Letter for Record)
Total Heating Surface of Boilers Is forced draught fitted *Yes* Coal or Oil fired *Oil*
No. and Description of Boilers Working Pressure 150 lbs./sq. in.
Tested by hydraulic pressure to Date of test No. of Certificate Can each boiler be worked separately *Yes*
Area of Firegrate in each Boiler *✓* No. and Description of safety valves to each boiler 2 direct spring loaded.
Area of each set of valves per boiler *per Rule 10.6 sq. in.* Pressure to which they are adjusted 154 lbs. Are they fitted with easing gear *Yes*
In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler *Boilers fitted on a platform at after end of engine room.*
Smallest distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers *✓*
Smallest distance between shell of boiler and tank top plating *✓* Is the bottom of the boiler insulated *Yes*
Largest internal dia. of boilers Length Shell plates: Material Tensile strength
Thickness Are the shell plates welded or flanged Description of riveting: circ. seams *end*
long. seams Diameter of rivet holes in *circ. seams* Pitch of rivets *inter.*
Percentage of strength of circ. end seams *plate* Percentage of strength of circ. intermediate seam *plate*
Percentage of strength of longitudinal joint *rivets* Working pressure of shell by Rules
Thickness of butt straps *outer* No. and Description of Furnaces in each Boiler
Material Tensile strength Smallest outside diameter
Length of plain part *top* Thickness of plates *crown* Description of longitudinal joint
Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules
End plates in steam space: Material Tensile strength Thickness Pitch of stays
How are stays secured Working pressure by Rules
Tube plates: Material *front* Tensile strength Thickness
Mean pitch of stay tubes in nests Pitch across wide water spaces Working pressure *front*
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 Working pressure by Rules Combustion chamber plates: Material
Tensile strength Thickness: Sides Back Top Bottom
Pitch of stays to ditto: Sides Back Top Are stays fitted with nuts or riveted over
Working pressure by Rules Front plate at bottom: Material Tensile strength
Thickness Lower back plate: Material Tensile strength Thickness
Pitch of stays at wide water space Are stays fitted with nuts or riveted over
Working Pressure Main stays: Material Tensile strength
Diameter *At body of stay,* No. of threads per inch Area supported by each stay
Working pressure by Rules *Over threads* Screw stays: Material Tensile strength
Diameter *At turned off part,* No. of threads per inch Area supported by each stay
Over threads



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Working pressure by Rules Are the stays drilled at the outer ends Margin stays: Diameter { At turned off part, or Over threads

No. of threads per inch Area supported by each stay Working pressure by Rules

Tubes: Material External diameter { Plain Stay Thickness { No. of threads per inch

Pitch of tubes Working pressure by Rules Manhole compensation: Size of opening in shell plate Section of compensating ring No. of rivets and diameter of rivet holes

Outer row rivet pitch at ends Depth of flange if manhole flanged Steam Dome: Material

Tensile strength Thickness of shell Description of longitudinal joint

Diameter of rivet holes Pitch of rivets Percentage of strength of joint { Plate Rivets

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 Steel forgings Steel castings

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 forgings and 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 22 inclusive for boilers been complied with

The foregoing is a correct description,

Manufacturer.

Dates of Survey { During progress of work in shops - - - Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) while building { During erection on board vessel - - - 21/7.14/8.5/9.8/9.27/9.11/10.1939. Total No. of visits 6.

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.)

These donkey boilers have been built under special survey and tested by the Surveyors to this Society as per Middlesbrough Reports Nos. 16598 & 16599 and have been installed under our supervision and to our satisfaction.

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

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

A. Barring.
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 3 NOV 1939

Assigned

See Memo. J.E. 1826



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