

REPORT ON BOILERS.

No. 20965.

23 SEP 1954

Received at London Office.....

Date of writing Report 21st. Sept. 19. 54. When handed in at Local Office 22nd. Sept. 19. 54. Port of GOTHENBURG.

No. in Survey held at Gothenburg Date, First Survey 10th September Last Survey 19 54.

Reg. Book. 73890 on the Motor Tanker "P O R J U S" (Number of Visits 1) Tons (Gross 464 Net 172)

Built at Goole By whom built Goole S.B. & Repg. Co. Ltd. Yard No. --- When built 1944 - 3

Engines made at Manchester By whom made Crossley Bros. Ltd. Engine No. --- When made 1944 - 3

Boilers made at Oslo By whom made AS Thunes Mek. Vaerksted Boiler No. --- When made ---

IN as per Rule --- Owners Lennart B. Kristensson Port belonging to Rönning

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel ---

Total Heating Surface of Boilers 215 sq. ft. Of Superheaters ---

Total for Register Book 215 sq. ft. Is forced draught fitted Yes Coal or Oil fired Oil

No. and Description of Boilers One single-ended Working Pressure 100 lbs/in²

Tested by hydraulic pressure to --- Date of test --- No. of Certificate --- Can each boiler be worked separately ---

Area of Firegrate in each Boiler --- No. and Description of safety valves to each boiler One double spring loaded

Area of each set of valves per boiler { per Rule 1540 mm² as fitted 2230 mm² Pressure to which they are adjusted --- 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 or woodwork --- Is oil fuel carried in the double bottom under boilers Boiler on deck

Smallest distance between shell of boiler and tank top plating --- Is the bottom of the boiler insulated No

Largest internal dia. of boiler 1700 mm. Length 1430 mm. Shell plates: Material --- Tensile strength ---

If fusion welded, state name of welding Firm --- Have all the requirements of the Rules for Class I vessels

been complied with --- Thickness 12 mm. Are the shell plates welded or flanged No Description of riveting: circ. seams { end S.R.L. inter ---

Long. seams D.R.L. Diameter of rivet holes in { circ. seams 20 mm. long. seams 20 mm. Pitch of rivets { 48.02 mm. 68.35 mm.

Percentage of strength of circ. end seams { plate --- rivets --- Percentage of strength of circ. intermediate seam { plate --- rivets ---

Percentage of strength of longitudinal joint { plate --- rivets --- combined ---

Thickness of butt straps { outer --- inner --- No. and Description of Furnaces in each Boiler One plain

Material --- Tensile strength --- Smallest outside diameter 800 mm.

Length of plain part { top About 1400 mm. bottom --- Thickness of plates 12 mm. Description of longitudinal joint E.W.

Dimensions of stiffening rings on furnace or c.c. bottom ---

End plates in steam space: Material --- Tensile strength --- Thickness 13 mm. Pitch of stays Brackets

How are stays secured Riveted

Tube plates: Material { front --- back --- Tensile strength { --- Thickness { 13 mm. 13 mm.

Mean pitch of stay tubes in nests 190 mm. Pitch across wide water spaces 328 mm.

Orders to combustion chamber tops: Material --- Tensile strength --- Depth and thickness of girder

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

each --- 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 ---

Front plate at bottom: Material --- Tensile strength ---

Thickness 13 mm. Lower back plate: Material --- Tensile strength --- Thickness 13 mm.

Pitch of stays at wide water space --- Are stays fitted with nuts or riveted over ---

Main stays: Material --- Tensile strength ---

Diameter { At body of stay --- or --- No. of threads per inch ---

New stays: Material --- Tensile strength ---

Diameter { At turned off part --- or --- No. of threads per inch ---

Are the stays drilled at the outer ends..... Margin stays: Diameter { At turned off part,.....
or
Over threads.....

No. of threads per inch.....

Tubes: Material..... External diameter { Plain..... 57 mm.....
Stay..... 60 mm..... Thickness { 2.75 mm.....
6.5 mm..... No. of threads per inch.....

Pitch of tubes..... 84 x 84 mm..... Manhole compensation: Size of opening in
shell plate..... 510 x 410 mm..... 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..... Thickness of crown..... No. and diameter of
stays..... Inner radius of crown.....

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.....

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.....
while building { During erection on board vessel - - } (If not state date of approval.)

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.).....

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

Sten Johnson
Engineer Surveyor to Lloyd's Register of Shipping.

TUESDAY 19 OCT 1954

Committee's Minute.....

Assigned See Log Apt 9 No 20965



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Foundation