

REPORT ON BOILERS.

No. 18115.

9 APR 1951

Received at London Office.

Date of writing Report 19th March 1951 When handed in at Local Office 4th April 1951 Port of Gothenburg

No. in Reg. Book 90078 Survey held at Uddevalla Date, First Survey 26th October, 1950 Last Survey 16th March 1951

(Number of Visits 4) Gross 9809 Tons Net 5582

on the Twin Screw Motor Tanker "ISLAS ORCADAS"

Built at Uddevalla By whom built Uddevallavarvet A-B. Yard No. 112 When built 1951

Engines made at Milwaukee, Wis., U.S.A. By whom made Nordberg Manufacturing Company Engine No. TSM 2973/4 When made 1949

Donkey Boilers made at Paisley, Scotland By whom made A.F. Craig & Co., Ltd. Boiler No. 23176 When made 1950

Nominal Horse Power --- Owners Argentine Government (Yacimientos Petroliferos Fiscales) Port belonging to Buenos Aires.

MULTITUBULAR BOILERS ~~XXXXXXXXXXXX~~ DONKEY.

Manufacturers of Steel Colvilles, Ltd. (Letter for Record S)

Total Heating Surface of Boilers --- Of Superheaters ---

Total for Register Book --- Is forced draught fitted Yes ✓ Coal or Oil fired Oil ✓

No. and Description of Boilers 2 Single Ended Multitubular Donkey Boilers Working Pressure 150 lb/sq.in.

Tested by hydraulic pressure to --- Date of test --- No. of Certificate 23176 & 23178 Can each boiler be worked separately Yes ✓

Area of Firegrate in each Boiler --- No. and Description of safety valves to each boiler 1 Double Springloaded ✓

Area of each set of valves per boiler per Rule 7000 mm² ✓ Pressure to which they are adjusted 150 lb/in² ✓ Are they fitted with easing gear Yes ✓

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No main boilers fitted ✓

Smallest distance between boilers or uptakes and bunkers or woodwork 825 mm. from A.P. End Is oil fuel carried in the double bottom under boilers ---

Smallest distance between shell of boiler and tank top plating Donkey Boilers placed in a separate room on a platform aft in E.R. Is the bottom of the boiler insulated Yes

Largest internal dia. of boilers --- Length --- 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 --- Are the shell plates welded or flanged --- Description of riveting: circ. seams end inter

long. seams --- Diameter of rivet holes in circ. seams long. seams Pitch of rivets ---

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 ---

Material --- Tensile strength --- Smallest outside diameter ---

Length of plain part top bottom Thickness of plates --- Description of longitudinal joint ---

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

End plates in steam space: Material --- Tensile strength --- Thickness --- Pitch of stays ---

How are stays secured ---

Tube plates: Material front back Tensile strength --- Thickness ---

Mean pitch of stay tubes in nests --- Pitch across wide water spaces ---

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 --- 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 --- Lower back plate: Material --- Tensile strength --- Thickness ---

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

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

Diameter At both of stay or Over threads No. of threads per inch ---

Screw stays: Material --- Tensile strength ---

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



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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..... Thickness { No. of threads per inch.....
Stay.....
Pitch of tubes..... 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..... 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
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..... Yes

The foregoing is a correct description,
Signature of Engineer Surveyor
Manufacture

Dates of Survey { During progress of work in shops - - -
while building { During erection on board vessel - - -
26th Oct., 1950 - 16th March, 1951
Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)
Total No. of visits 4

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. M/S "Islas Malvinas", Gothenburg Fir
Entry Report No. 17660.

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

These donkey boilers have been securely fitted in the vessel under my inspection and to my satisfaction
and the safety valves have been adjusted under steam to 150 lbs. per square inch.

The boilers have been marked:

No. 950 - 951
23176, 23178
LLOYD'S TEST 275 LBS.
WP 150 LBS.
RJE 8.6.50

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

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

Committee's Minute TUES. 24 APR 1951

Assigned

See F.E. mch. rpt.



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