

REPORT ON BOILERS.

No. 33589

Received at London Office.....

23. JAN. 1961

Date of writing Report 28/12/1960 When handed in at Local Office.....19..... Port of SYDNEY, N.S.W.

No. in Reg. Book Survey held at SYDNEY, N.S.W. Date, First Survey 12/1/59 Last Survey 16/11/1960

on the Non-propelled oil barge "B.P. SYDNEY" (Number of Visits 5) Tons { Gross 450 Net.....

Built at Sydney By whom built Chadwick Engineering Pty. Ltd. Yard No. 2 When built 1960 9

Engines made at - By whom made - Engine No. - When made -

Boilers made at Fremantle, W.A. By whom made Tomlinson Steel Ltd. Boiler No. 10842 When made 1960 2

MN as per Rule - Owners B.P. Australia Ltd. Port belonging to Not registered

MULTITUBULAR BOILERS — ~~MAIN~~, ~~AUXILIARY~~, OR DONKEY.

Manufacturers of Steel See Fremantle Report No. 2015.

Total Heating Surface of Boilers 544.78 sq. ft. Of Superheaters -

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

No. and Description of Boilers One Cylindrical Multitubular Working Pressure 150 p.s.i.

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 -

Area of each set of valves per boiler { per Rule..... as fitted..... Pressure to which they are adjusted 150 psi 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~~ 6 ft. Is oil fuel carried in the double bottom under boilers -

Smallest distance between boilers or uptakes and bunkers or ~~woodwork~~ - 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.....

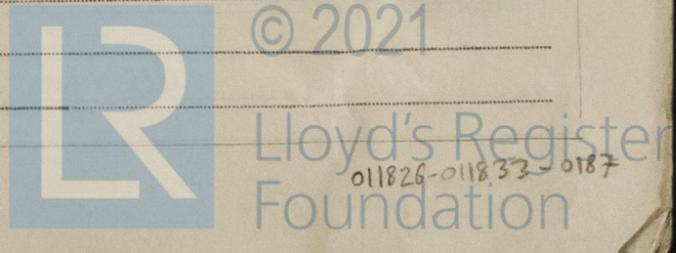
Pitch of stays at wide water space..... Are stays fitted with nuts or riveted over.....

Main stays: Material..... Tensile strength.....

Diameter { At body 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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2.2

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 { Plan _____ 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 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 while building { During progress of work in shops - - } _____ Are the approved plans of boiler and superheater forwarded herewith _____
 (If not state date of approval.)
 { During erection on board vessel - - - } _____ Total No. of visits _____

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

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

This Donkey Boiler has been installed in accordance with the Society's Rules, Approved plans and Secretary's letters.

The automatic firing and water level controls have been tried under working conditions and an accumulation test carried out at full firing for 15 minutes, during which period the pressure did not exceed 162 p.s.i.

The steam smothering system from the pressurised hot water system was tested and found to effectively blanket the boiler and machinery space.

It is recommended the installation is eligible for the notation D.B. 9/60.

See Fremantle Rpt. No. 2015

Survey Fee £ 130 : 0 : 0 } When applied for, 12/1/1961

Travelling Expenses (if any) £ 22 : 19 : 0 } When received 19.....

S.C. Johnson
 Engineer Surveyor to Lloyd's Register of Shipping.
 (S.C. Johnson)

Committee's Minute _____ FRIDAY 24 MAR 1961 _____

Assigned _____ See Rpt. 1. _____

