

REPORT ON BOILERS.

No. 99511

Received at London Office 13 DEC 1933

Writing Report Dec 1933 When handed in at Local Office Dec 7 1933 Port of LONDON.

Survey held at LONDON.

Date, First Survey 27 July

Last Survey 30 November 1933

(Number of Visits 3)

Tons

Gross 9949

Net 5647

2. on the T.W.S.S. "FORDSDALE"

Built at Sydney N.S.W. By whom built Commonwealth Dryd. Yard No. When built 1924

Engines made at Sydney N.S.W. By whom made Commonwealth Dryd. Engine No. When made 1924

Boilers made at By whom made Boiler No. When made

Horse Power 1205 Owners Shaw Savill & Albion Ld. Port belonging to London

LITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Superheaters fitted (Letter for Record)

Heating Surface of Boilers

Is forced draught fitted

Coal or Oil fired

Working Pressure

and Description of Boilers

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

No. and Description of safety valves to each boiler

No. and Description of safety valves to each boiler

Pressure to which they are adjusted

Are they fitted with easing gear

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

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

Smallest distance between shell of boiler and tank top plating

Length

Shell plates: Material

Tensile strength

Largest internal dia. of boilers

Description of riveting: circ. seams

Thickness

Are the shell plates welded or flanged

g. seams

Diameter of rivet holes in

Pitch of rivets

Percentage of strength of circ. end seams

Percentage of strength of circ. intermediate seam

Percentage of strength of longitudinal joint

Working pressure of shell by Rules

Thickness of butt straps

No. and Description of Furnaces in each Boiler

Smallest outside diameter

Material

Tensile strength

Length of plain part

Thickness of plates

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

Tensile strength

Thickness

Mean pitch of stay tubes in nests

Pitch across wide water spaces

Working pressure

Depth and thickness of girder

Girders to combustion chamber tops: Material

Tensile strength

No. and pitch of stays

at centre

Length as per Rule

Distance apart

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

No. of threads per inch

Area supported by each stay

Working pressure by Rules

Screw stays: Material

Tensile strength

Diameter

No. of threads per inch

Area supported by each stay

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Foundation

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 *Superheaters 2nd Back end Manufacturers of* Tubes *Port Salter Steel Works P. Salter*
 Number of elements *110* Material of tubes *Solid drawn steel* Internal diameter and thickness of tubes *1" X .212" thick*
 Material of headers *Forged steel* Tensile strength *✓* Thickness *5/8"* Can the superheater be shut off and the boiler be worked separately *yes* Is a safety valve fitted to every part of the superheater which can be shut off from the boiler *yes*
 Area of each safety valve *3.1416 sq"* Are the safety valves fitted with easing gear *yes* Working pressure as per Rules *220 lbs* Pressure to which the safety valves are adjusted *225 lbs* Hydraulic test pressure: tubes *1,000 lbs*, castings *660 lbs* and after assembly in place *500 lbs* Are drain cocks or valves fitted to free the superheater from water where necessary *yes*

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 - - } Total No. of visits _____

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
Superheaters fitted to three furnaces of the Port, Centre and Starboard forward and the Port and Starboard after boilers, the workmanship is good and the arrangement in accordance with the approved plans.

Survey Fee ... £ 25: 0 : 0 When applied for, *13 DEC 1933*
 Travelling Expenses (if any) £ : : When received, *18/11 1934*
SLO AC 157
LOW AC 120
(No. 111 17/1/33)

Charles W. Oxford Charles W. Oxford
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute *FRI. 29 DEC 1933*

Assigned _____