

REPORT ON BOILERS.

No. 12

-1 DEC 1936

Received at London Office

Date of writing Report 28. 11. 1936 When handed in at Local Office 28. 11. 1936 Port of **DANZIG.**

No. in Survey held at **Danzig.** Date, First Survey **23rd Sept** Last Survey **7th Nov** 1936
 Reg. Book. **10420** on the **TWIN SCREW. M.V. 'TARIFA'** (Number of Visits **3**) Gross **4229**
 Tons Net **4425**

Built at **Danzig** By whom built **Messrs F. Schichau G.m.b.H.** Yard No. **1357** When built **1936**
 Engines made at **Elbing** By whom made **Messrs F. Schichau G.m.b.H.** Engine No. **3636/37** When made **1936**
 Boilers made at **Kiel** By whom made **Deutsche Werke Kiel A.G.** Boiler No. **1170** When made **1936**
 Owners **H. Wilhelmssen** **Celo** Port belonging to **Görsberg**

VERTICAL DONKEY BOILER. PLEASE SEE **HAMBURG REPORT No 21940**

Made at _____ By whom made _____ Boiler No. _____ When made _____ Where fixed _____

Manufacturers of Steel _____

Total Heating Surface of Boiler _____ Is forced draught fitted _____ Coal or Oil fired _____

No. and Description of Boilers _____ Working pressure _____

Tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____

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 **100 lbs** Are they fitted with easing gear **yes**

State whether steam from main boilers can enter the donkey boiler _____ Smallest distance between boiler or uptake and bunkers _____

or woodwork _____ Is oil fuel carried in the double bottom under boiler **no** Smallest distance between base of boiler and tank top plating _____

1 m Is the base of the boiler insulated **no** Largest internal dia. of boiler _____ Height _____

Shell plates: Material _____ Tensile strength _____ Thickness _____

Are the shell plates welded or flanged _____ Description of riveting: circ. seams { end _____ inter _____ long. seams _____

Dia. of rivet holes in { circ. seams _____ Pitch of rivets { _____ Percentage of strength of circ. seams { plate _____ rivets _____ of Longitudinal joint { plate _____ rivets _____ combined _____

Working pressure of shell by rules _____ Thickness of butt straps { outer _____ inner _____

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat _____ Material _____

Tensile strength _____ Thickness _____ Radius _____ Working pressure by rules _____

Description of Furnace: Plain, spherical, or dished crown _____ Material _____ Tensile strength _____

Thickness _____ External diameter { top _____ bottom _____ Length as per rule _____ Working pressure by rules _____

Pitch of support stays circumferentially _____ and vertically _____ Are stays fitted with nuts or riveted over _____

Diameter of stays over thread _____ Radius of spherical or dished furnace crown _____ Working pressure by rule _____

Thickness of Ogee Ring _____ Diameter as per rule { D _____ d _____ Working pressure by rule _____

Combustion Chamber: Material _____ Tensile strength _____ Thickness of top plate _____

Radius if dished _____ Working pressure by rule _____ Thickness of back plate _____ Diameter if circular _____

Length as per rule _____ Pitch of stays _____ Are stays fitted with nuts or riveted over _____

Diameter of stays over thread _____ Working pressure of back plate by rules _____

Tube Plates: Material { front _____ back _____ Tensile strength { _____ Thickness { _____ Mean pitch of stay tubes in nests _____

comprising shell, Dia. as per rule { front _____ back _____ Pitch in outer vertical rows { _____ Dia. of tube holes FRONT { stay _____ plain _____ BACK { stay _____ plain _____

each alternate tube in outer vertical rows a stay tube _____ Working pressure by rules { front _____ back _____

Orders 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 rule _____

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Crown stays: Material _____ Tensile strength _____ Diameter { at body of stay, _____ or over threads _____
 No. of threads per inch _____ Area supported by each stay _____ Working pressure by rules _____
Screw stays: Material _____ Tensile strength _____ Diameter { at turned off part, _____ or over threads _____ No. of threads per inch _____
 Area supported by each stay _____ Working pressure by rules _____ Are the stays drilled at the outer ends _____
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 _____
Uptake: External diameter _____ Thickness of uptake plate _____
Cross Tubes: No. _____ External diameters { _____ Thickness of plates _____

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with _____

The foregoing is a correct description, _____

Dates { During progress of work in shops - - - } Is the approved plan of boiler forwarded herewith (If not state date of approval.)
 while building { During erection on board vessel - - - } Sept 23, Oct 8, Nov 7th 1936 Total No. of visits 3

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

This vertical Donkey Boiler together with Latent waste heat boiler also
 Hamburg Report No 71940 have now been satisfactorily fitted on board.
 The boilers have been examined under steam and their safety valves
 adjusted to 100 lbs sq. and are eligible in my opinion for notation in
 the Register Book of D.B. 100 lbs sq.

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

Committee's Minute
 Assigned

TUE. 22 DEC 1936

Richard Shaw,
 Engineer Surveyor to Lloyd's Register of Shipping.
 FRI 5 MAR 1937
 FRI 7 MAY 1937
 FRI 6 AUG 1937
 Lloyd's Register Foundation