

# 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 Reg. Book. 10420 on the TWIN SCREW. M.V. 'TARIFA' Survey held at Danzig Date, First Survey 23rd Sept Last Survey 7th Nov 1936 (Number of Visits 3) Tons Gross 4229 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 Nos 3636/37 When made 1936 Boilers made at Kiel By whom made Deutsche Werke Kiel A.G. Boiler No. 1170 When made 1936 Owners W. Wilhelmussen Oslo Port belonging to Gönnsberg

VERTICAL DONKEY BOILER. PLEASE SEE HAMBURG REPORT No 21940

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 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 Is oil fuel carried in the double bottom under boiler No Smallest distance between base of boiler and tank top plating 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 long. seams Dia. of rivet holes in Pitch of rivets Percentage of strength of circ. seams of Longitudinal joint Working pressure of shell by rules Thickness of butt straps 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 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 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 Tensile strength Thickness Mean pitch of stay tubes in nests comprising shell, Dia. as per rule Pitch in outer vertical rows Dia. of tube holes FRONT BACK each alternate tube in outer vertical rows a stay tube Working pressure by rules 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

W264-0283



REPORT ON BOILERS

**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 { \_\_\_\_\_ Working pressure by rules \_\_\_\_\_

No. of threads per inch \_\_\_\_\_ Pitch of tubes \_\_\_\_\_

**Manhole Compensation:** Size of opening in shell plate \_\_\_\_\_ Section of compensating ring \_\_\_\_\_ No. of rivets and diam \_\_\_\_\_

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,

Manufactured by \_\_\_\_\_

Dates of Survey { 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 7<sup>th</sup> 1936 Total No. of visits 3

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

This vertical Donkey Boiler together with Lamont 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.

See Hamburg Report No 71940

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.

TARIFA

FRI 5 MAR 1937  
FRI 7 MAY 1937  
FRI 6 AUG 1937

Lloyd's Register Foundation