

REPORT ON BOILERS.

No. 24115

Received at London Office JUL 3 1939

Report of writing Report 28th June 1939. When handed in at Local Office 19 Port of **HAMBURG**

Survey held at **HAMBURG** Date, First Survey 11th February Last Survey 20th June 1939

on the **Twin Screw Motor Tanker GALLIA** (Number of Visits 7) Gross 9974 Tons Net 5798

Built at **HAMBURG** By whom built **Deutsche Werft A.G.** Yard No. 227 When built 1939.

Engines made at **Angsborg** By whom made **Maschinenfabrik Angsborg-Königsberg** Engine No. 681560/570 When made 1939.

Boilers made at **HAMBURG** By whom made **Deutsche Werft A.G.** Boiler No. 871, 872 When made 1939.

Indicated Horse Power 1170 Owners **The Texas Co (Norway) A/S** Port belonging to **Oslo**

WASTE HEAT LA MONT DONKEY BOILER COIL SYSTEM.

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Tubes: **Kammich-Werke A.G. of Prackwede-Lind** Headers: **Mannesmannröhrenwerke, Dusseldorf and Vereinigte Oberschlesische Röhrenwerke** (Letter for Record S. ✓)

Total Heating Surface of Boilers each boiler 100 sq. metres Is forced draught fitted - Coal or Oil fired **exhaust gas fired**.

Description of Boilers **Two Waste Heat La Mont Donkey Boiler Coil Systems** Working Pressure 12 kg/cm²

Tested by hydraulic pressure to 21.5 kg/cm² Date of test 25.3.39 No. of Certificate 730, 731 Can each boiler be worked separately **only in connection with oil donkey B.**

Area of Firegrate in each Boiler - No. and Description of safety valves to each boiler **one spring loaded**

Area of each set of valves per boiler { **35 mm** as fitted } Pressure to which they are adjusted 12 kg/cm² 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 - Is oil fuel carried in the double bottom under boilers -

Smallest distance between shell of boiler and tank top plating - Is the bottom of the boiler insulated -

Largest internal dia. of boilers 1280 mm Length 3300 mm

Thickness of shell 10 mm Are the shell plates welded or flanged **yes** Description of riveting: circ. seams { **end -** } Headers

of coils. { **4 double coils** Diameter of coil tubes { **32 / 26 mm** Thickness of shell 3 mm } **3 triple coils** **2 quadruple coils**

Percentage of strength of circ. end seams { **plate -** } Percentage of strength of circ. intermediate seam { **plate -** } **rivets -**

Percentage of strength of longitudinal joint { **plate -** } Working pressure of **tubes** by Rules 16.25 kg/cm² **rivets -** **combined -**

Thickness of butt straps { **outer -** } No. and Description of Furnaces in each Boiler **inner -**

Material Tensile strength Smallest outside diameter

Length of plain part { **top -** } Thickness of plates { **crown -** } Description of longitudinal joint **bottom -**

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules

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

How are stays secured Working pressure by Rules

Side plates: Material { **front -** } Tensile strength { **back -** } Thickness { **front -** } **back -**

Can pitch of stay tubes in nests Pitch across wide water spaces Working pressure { **front -** } **back -**

Orders to combustion chamber tops: Material Tensile strength Depth and thickness of girder

centre Length as per Rule Distance apart No. and pitch of stays

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 { **At body of stay -** } No. of threads per inch Area supported by each stay **Over threads**

Working pressure by Rules Screw stays: Material Tensile strength

Diameter { **At turned off part -** } No. of threads per inch Area supported by each stay **Over threads**

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 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 Manufacturers of { Tubes 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 Working pressure as per
Rules Pressure to which the safety valves are adjusted Hydraulic test pressure:
tubes, 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 yes

The foregoing is a correct description,
DEUTSCHE WERFT
AKTIENGESELLSCHAFT Manufacturer.
Müller

Dates of Survey { During progress of work in shops - - 1939 Feb. 11, 15 March 21, 25 Are the approved plans of boiler and superheater forwarded herewith 3.9.36
while building { During erection on board vessel - - - 1939 June 1, 12, 20. Total No. of visits 7
(If not state date of approval.)

Is this Boiler a duplicate of a previous case yes If so, state Vessel's name and Report No. **BRITANNIA** NUEVAGRANADA Hamburg Rep. No. 32304
GERMANIA 33050
BRITANNIA 23097

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) Material and workmanship of these Waste Heat La Mont Donkey Boiler Coil Systems are of good quality.

The materials used in their constructions are made at Works recognised by the Committee and tested by the Society's Surveyors in accordance with the requirements of the Rules.

These Donkey Boiler Coil Systems having been made under Special Survey in conformity with the approved plan, the Secretary's letter and otherwise in compliance with the requirements of the Rules are eligible in my opinion to be classed with notation in the Register Book:

Two Donkey Boilers (WT) 171 lbs/sq. inch pressure.

Thickness of safety valves' adjusting washers: Port boiler 10 mm, Starbd boiler 12 mm.

Survey Fee £RM: 168 : - When applied for, 22.6. 1939.
Travelling Expenses (if any) £ : : When received, 8.7 1939/10/17

H. Röhrs
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **FRI 14 JUL 1939**
Assigned