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REPORT ON BOILERS.

No. 24115

Received at London Office JUL 3 1939

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

2330 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.

Machinery made at **Angsburg** By whom made Maschinenfabrik Augsburg-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

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WASTE HEAT LA MONT DONKEY BOILER COIL SYSTEM.

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Tubes: Kammerich-Werke A.G. of Prackewede-Lind
 Headers: Mannesmannröhrenwerke, Luckingen and Vereinigte Oberschlesische Hüttenwerke (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 with oil donkey P.

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 φ as fitted 962 mm φ } 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 HEADERS Shell plates: Material S-M-Steel Tensile strength 44-50 kg/mm²

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

of coils { 4 double coils 3 triple coils 2 quadruple coils } Diameter of coil tubes { 32 / 26 mm } Thickness of shell 3 mm 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 - } Working pressure of tubes by Rules 16.25 kg/cm²

No. and Description of Furnaces in each Boiler

Material Tensile strength Smallest outside diameter

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

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 back } Tensile strength Thickness { }

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

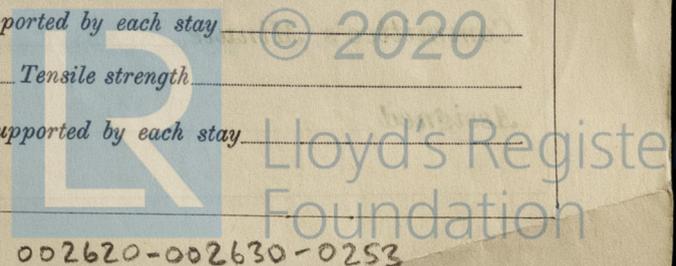
Pitch of stays at wide water space Are stays fitted with nuts or riveted over

Working Pressure Main stays: Material Tensile strength

Diameter { At body of stay 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



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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*
 How connected to shell *Inner radius of crown* Working pressure by Rules
 of rivets in outer row in dome connection to shell *Size of doubling plate under dome* Diameter of rivet holes and pitch

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.*

Dates of Survey *During progress of work in shops - -* 1939 *Febr. 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*

Is this Boiler a duplicate of a previous case *yes* If so, state Vessel's name and Report No. *BRITANNIA* *33097*

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 *£ R M : 168 : -* When applied for, *22. 6. 1939*
 Travelling Expenses (if any) £ : : When received, *8. 7. 1939*

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

Committee's Minute *FRI 14 JUL 1939*

Assigned

