

REPORT ON BOILERS.

No. 22304

Received at London Office

MAY -1 1937

Date of writing Report 16th April 37 When handed in at Local Office 19 Port of HAMBURG
 No. in Survey held at HAMBURG Date, First Survey 21st Nov. 1936 Last Survey 15th April 1937
 (Number of Visits 6) Gross 9968
 on the Twin Se. "Kneva Granada" Tons { Net 5782 }
 Built at Hamburg By whom built Deutsche Werft A.G. Yard No. 181 When built 1937
 Engines made at Augsburg By whom made Maschinenfabrik Augsburg-Nürnberg Engine No. 681/30/140 When made 1937
 Boilers made at Hamburg By whom made Deutsche Werft A.G. Boiler No. 666/667 When made 1937
 Nominal Horse Power 1171 Owners The Texas Co. (Norway) A/S Port belonging to Oslo

Waste Heat LaMont Donkey Boiler Coil System.

Manufacturers of Steel Headers: Mannesmann-Röhrenwerke, Remscheid (Letter for Record 3)
Headers: Klöckner-Werke A.G. 1st Georg-Marienhütte
 Total Heating Surface of Boilers each boiler 100 sq. m. Is forced draught fitted no Coal or Oil fired Waste Gas Heated
 No. and Description of Boilers 2 Waste Heat "La Mont" Donkey Boilers Working Pressure 12 kg/cm²
 Tested by hydraulic pressure to 24 kg/cm² Date of test 9th Jan. 37 No. of Certificate 648/649 Can each boiler be worked separately only in combination with one donkey boiler
 Area of Firegrate in each Boiler — No. and Description of safety valves to each boiler 1 - spring loaded
 Area of each set of valves per boiler { per Rule 962 mm² 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 no
 Smallest distance between shell of boiler and tank top plating — Is the bottom of the boiler insulated yes
 Largest internal dia. of boilers 1280 mm (Length 3300 mm) Headers Shell-plates: Material S-M-Steel Tensile strength 41-47 kg/cm²
 Thickness 110 mm - bore 80 mm Are the shell plates welded or flanged — Description of riveting: circ. seams { end — inter. — }
double coils Diameter of coil tubes { circ. seams 26/32 mm Thickness 3 mm }
3 triple coils { long. seams — }
2 quadruple coils 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
 Thickness of butt straps { outer — inner — } 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 —
 End plates in steam space: Material — Tensile strength — Thickness — Pitch of stays —
 How are stays secured — Working pressure by Rules —
 Tube plates: Material { front — back — } Tensile strength { — } Thickness { — }
 Mean pitch of stay tubes in nests — Pitch across wide water spaces — Working pressure { front — back — }
 Girders 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 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 — } 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 — } No. of threads per inch — Area supported by each stay —

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
Stay
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

The foregoing is a correct description,

DEUTSCHE WERFT

Manufacturer.

Dates of Survey { During progress of work in shops - - - 21st Nov, 9th Dec. 1936, 9th Jan. Are the approved plans of boiler and superheater forwarded herewith
while building { During erection on board vessel - - - 12th + 31st March, 15th April (If not state date of approval.)
Total No. of visits 6

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) Material and workmanship
of these Waste Heat La Mont Donkey Boilers (Coil System) are of good quality.
The materials used in their construction are made at Works recognised by the
Committee and tested by the Society's Surveyors in accordance with the requirements
of the Rules.
These waste heat donkey boilers having been made under Special Survey in
conformity with the approved plan, the Society's letter and otherwise in compliance
with the requirements of the Rules are eligible in my opinion to be classed
in the Society's Register Book. Donkey Boiler pressure 171 lbs/sq. inch.

Thickness of adjusting washers: Port boiler 8.2 mm, Stb. boiler 7.5 mm.

Survey Fee £ RM: 168: - } When applied for, 26.4.1937
Travelling Expenses (if any) £ -: -: - } When received, 27.5.1937

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

Committee's Minute FRI 7 MAY 1937

Assigned See Hann J.E. 22304



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