

REPORT ON BOILERS.

28 MAR 1928

No. 107959

Received at London Office 12 DEC 1927

Date of writing Report 2nd Dec. 1927 When handed in at Local Office 19 Port of HAMBURG

No. in Reg. Book Survey held at KIEL Date, First Survey 12th AUGUST Last Survey 22nd NOV. 1927

on the STEEL SC. T.S. VICTOLITE in being built. (Number of Visits 7) Tons {Gross Net

Built at LINTHOUSE-GOVAN By whom built A. STEPHEN & SONS LTD. Yard No. 517 When built

Engines made at KIEL By whom made FRIED. TRUPP F.G. GERMANIAWERFT. Engine No. 213842 When made 1927

Boilers made at KIEL By whom made FRIED. TRUPP F.G. GERMANIAWERFT. Boiler No. 373839 When made 1927

Port belonging to

VERTICAL DONKEY BOILER.

Made at KIEL By whom made Fried. Trupp, F.G. Germania Werft. Boiler No. 373839 When made 1927 Where fixed *engine room 104. line in gas exhaust*

Manufacturers of Steel Messrs. Schuchel & Sohn G. m. b. H. - Stallingen.

Total Heating Surface of Boiler 2 x 60 sq. m. Is forced draught fitted Coal or Oil fired *oil gas fired*

No. and Description of Boilers Two vertical exhaust gas lines Donkey Boiler. Working pressure 7 kg (100 lbs)

Tested by hydraulic pressure to 14 kg (200 lbs) Date of test 2.11.27. No. of Certificate 452-453

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 2 Spring loaded

Area of each set of valves per boiler {per rule 4695 cm² as fitted 5654 cm² Pressure to which they are adjusted Are they fitted with easing gear *ye*

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 Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated Largest internal dia. of boiler 1550 mm Height 2800 mm

Shell plates: Material Steel Tensile strength 44-50 kg/cm² Thickness 12 mm

Are the shell plates welded or flanged *flanged* Description of riveting: circ. seams *one by single* long. seams *by double*

Dia. of rivet holes in {circ. seams 25 mm long. seams 33 mm Pitch of rivets 72 mm Percentage of strength of circ. seams {plate 62.7% rivets 50% of Longitudinal joint {plate 68% rivets 52% combined 55%

Working pressure of shell by rules 9.74 kg/cm² Thickness of butt straps {outer inner

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat flat - top dished plate. Material Steel

Tensile strength 34-41 kg/cm² Thickness 24 mm 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 a 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 *Steel* Tensile strength {36-41 kg/cm² Thickness {24 mm Mean pitch of stay tubes in nests 260 x 250 mm

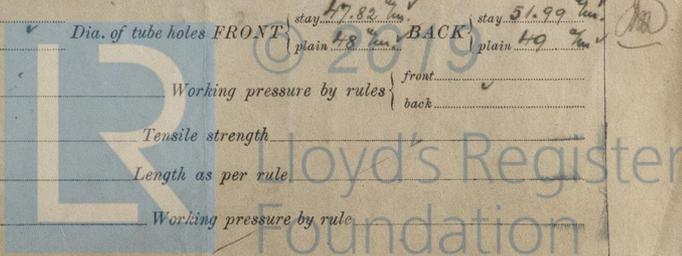
If comprising shell, Dia. as per rule {front back Pitch in outer vertical rows {DIA. OF TUBE HOLES FRONT {stay 27.82 mm plain 49 mm BACK {stay 51.90 mm plain 49 mm

Is each alternate tube in outer vertical rows a stay tube Working pressure by rules {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 rule



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 sealess mild steel External diameter { plain 48 ¹/₄" Thickness { 3 ¹/₄" }
 stay 48 ¹/₄" } 6 ¹/₄" }
 No. of threads per inch 9 Pitch of tubes 80 ¹/₄" Working pressure by rules 8.8 kg. - 61.5 kg.

Manhole Compensation: Size of opening in shell plate 80 x 80 ¹/₄" Section of compensating ring 80 x 25 ¹/₄" No. of rivets and diameter
 of rivet holes 16 - 26 ¹/₄" Outer row rivet pitch at ends 80 ¹/₄" 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,
FRIED. KRUPP
GERMANIAWERKE Aktiengesellschaft *F. A. Faber* Manufacturer.

Dates of Survey { During progress of work in shops - - } 10/8 - 13/9 - 23/9 - 10/10 - 24/10 - 31/10 - 21/11/27 Is the approved plan of boiler forwarded herewith (If not state date of approval)
 while building { During erection on board vessel - - } _____ Total No. of visits 7

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *Material and workmanship of these exhaust fire Donkey Gilers are of good quality. The materials used in the construction are made at works recognized by the Committee and forwarded to the Surveyors to the Society. These Donkey Gilers having been made under Special Survey in conformity with the approved plan, the Secretary's Letter, and otherwise in accordance with the requirements of the Rules are eligible in my opinion for certification N. E. & B. with date subject to satisfactory installation on board and examination under steam and adjustment of safety valves.*

MARK ON I. BOILERS.
 N: 452 - 453
 LLOYD'S TEST
 200 lbs.
 W.P. 100 lbs.
 F.V. 2.11.27

Survey Fee £ 8. : 8. : } When applied for, 10 Dec 27
 Travelling Expenses (if any) £ : : } When received, 30/12/27

Friedrich
 Engineer Surveyor to Lloyd's Register of Shipping.
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Committee's Minute GLASGOW 27 MAR 1928 JRA
 Assigned See G.L. Rpt. No. 47740.