

pt. 60

REPORT ON BOILERS.

28 MAR 1928

No. 107959

Received at London Office 12 DEC 1927

Date of writing Report 12 Dec. 1927 When handed in at Local Office 19 Port of HAMBURG.

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

on the STEEL S.S. M.S. VICTORIA 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 & CO. GERMANIAWERFT. Engine No. 2138/42 When made 1927

Boilers made at Kiel By whom made FRIED. TRUPP & CO. GERMANIAWERFT. Boiler No. 3738/39 When made 1927

Port belonging to

VERTICAL DONKEY BOILER.

Made at Kiel By whom made Fried. Trupp & Co. Germ. Werft. Boiler No. 3738/39 When made 1927 Where fixed line.

Manufacturers of Steel Messrs. Henschel & Sohn G. m. b. H. - Haltingen.

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 12 kg (100 lbs)

Tested by hydraulic pressure to 14 kg (200 lbs) V 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 4895 cm² as fitted 5654 cm² Pressure to which they are adjusted 12 kg 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

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 { end by single inter. long. seams by double.

Dia. of rivet holes in { circ. seams 25 mm long. seams 33 mm Pitch of rivets 60 mm Percentage of strength of circ. seams { plate 62.7% rivets 50% of Longitudinal joint { plate 68% rivets 55% combined 65.5%

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 tube plate. Material Steel

Tensile strength 36-41 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 { front back Dia. of tube holes FRONT { stay 27.82 mm plain 48 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

W134-0024

Crown stays: Material _____ Tensile strength _____ Diameter { at body of stay, _____
 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, _____
 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 sea water mild steel External diameter { plain 48 in Thickness { 3 in
 stay 48 in 6 in
 No. of threads per inch 9 Pitch of tubes 80 in Working pressure by rules 8.8 kg. 61.5 kg.
 Manhole Compensation: Size of opening in shell plate 80 x 80 in Section of compensating ring 80 x 25 in No. of rivets and diameter
 of rivet holes 16 - 26 in Outer row rivet pitch at ends 80 in 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. Krupp* Manufacturer.

Dates of Survey { During progress of 10/8-13/9-13/9-10/10-24/10-31/10-21/11/27 Is the approved plan of boiler forwarded herewith
 while work in shops- - - - - (If not state date of approval.)
 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 vertical fire Donkey boilers are of good quality. The materials used in the construction are made at works recognized by the Committee and formerly used by the Society. These Donkey boilers 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. R. B. with date subject to satisfactory installation on board and examination under pressure and adjustment of safety valves.*

MARK ON BOILERS.

N: 452 - 453

6607E TEST

200 lbs.
W.P. 100 lbs.
P.V. 2.11.27

Survey Fee ... £ 8. 8. : When applied for, 10/11/27
 Travelling Expenses (if any) £ : : When received, 30/11/27

Committee's Minute GLASGOW 27 MAR 1928
 Assigned See G.L. Rpt. No. 47740.

Friedrich
 Engineer Surveyor to Lloyd's Register of Shipping.

© 2019
 Lloyd's Register
 Foundation