

REPORT ON BOILERS.

No. 1490.

Received at London Office

27 AUG 1932

of writing Report 22nd Aug 32 When handed in at Local Office

19

Port of BREMEN

Survey held at VEGESACK

Date, First Survey 17th Febr. 1932Last Survey 16th Aug. 1932

Book

(Number of Visits 11)

Gross 12432

on the STEEL TWIN SC.

F. J. WOLFE

Tons Net 7100

at VEGESACK

By whom built BREMER VULKAN

Yard No. 698 When built 1932

ines made at VEGESACK

By whom made BREMER VULKAN

Engine No. 297-380 301-304 When made 1932

lers made at VEGESACK

By whom made BREMER VULKAN

Boiler No. 733/34 When made 1932

ners BALTISSCH-AMERIKANISCHE-PETROLEUM-IMPORT-G.M.B.H. Port belonging to DANZIG

VERTICAL DONKEY BOILER.

ide at VEGESACK By whom made BREMER VULKAN

Boiler No. 733-34

When made 1932

Where fixed upper Eng. Room

Manufacturers of Steel Vereinigte Stahlwerke, Stahl & Walzwerk Thyssen, Mülheim-Ruhr.

Total Heating Surface of Boiler 46,5 m² each

Is forced draught fitted no

Coal or Oil fired Exhaust gas fired

and Description of Boilers 2 Vertical, Clarkson Thimble Tube, Exhaust-Gas Donkey Boilers Working pressure 100 lbs, 7 kg/cm²

tested by hydraulic pressure to 200 lbs

Date of test 3rd May 1932

No. of Certificate 144 & 145

ea of Firegrate in each Boiler

No. and Description of safety valves to each boiler 2 spring loaded Safety Valves

ea of each set of valves per boiler { per rule 3546 mm² as fitted 7262 mm²

Pressure to which they are adjusted 100 lbs Are they fitted with easing gear yes

ate whether steam from main boilers can enter the donkey boiler no

Smallest distance between boiler or uptake and bunkers

woodwork Is oil fuel carried in the double bottom under boiler no

Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated yes

Largest internal dia. of boiler 2400 mm Height 4200 mm

ell plates: Material S. M. Steel

Tensile strength 44-50 kg/cm² Thickness 14,5 mm

e the shell plates welded or flanged flanged

Description of riveting: circ. seams

top single bottom double long. seams double butt straps

a. of rivet holes in { circ. seams 23, 26 mm long. seams 23 mm

Pitch of rivets { top 57,4 86,1 bottom 63,36

Percentage of strength of circ. seams { plate 58% 70% rivets 42% 69% of Longitudinal joint { plate 64% 70% rivets 70% combined

Working pressure of shell by rules 7,8 kg/cm²

Thickness of butt straps { outer 13 mm inner 13 mm

ell Crown: Whether complete hemisphere, dished partial spherical, or flat dished, partial spherical

Material S. M. Steel

Tensile strength 41-47 kg/cm² Thickness 19 mm

Radius 1920 mm

Working pressure by rules 8,2 kg/cm²

Description of Furnace: Plain, spherical, or dished crown dished part sphere. Material S. M. Steel

Tensile strength 41-47 kg/cm²

Furnace primed by 669 holes of 83 mm dia for Thimble tubes; long. beam welded

Thickness 26 mm External diameter { top 1427 mm bottom 1427 mm

Length as per rule 2180

Working pressure by rules as approved

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 22 mm

Diameter as per rule { D 2400 mm d 1427 mm

Working pressure by rule as approved

Combustion Chamber: Material S. M. Steel

Tensile strength 41-47 kg/cm² Thickness of top plate 17,5 mm

Radius if dished 1120 mm

Working pressure by rule 9,2 kg/cm²

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 { front back

Tensile strength { front back

Thickness { front back

Mean pitch of stay tubes in nests

comprising shell, Dia. as per rule { front back

Pitch in outer vertical rows { front back

Dia. of tube holes FRONT { stay plain BACK { stay plain

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

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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 ☒

THIMBLE
 Tubes: Material F. M. Hall External diameter { plain 83/52 mm Thickness { 5.15 mm
 No. of threads per inch ☒ Pitch of tubes ☒ Working pressure by rules ☒

Manhole Compensation: Size of opening in shell plate 300 x 400 mm Section of compensating ring ☒ No. of rivets and di
 of rivet holes ☒ Outer row rivet pitch at ends ☒ Depth of flange if manhole flanged 76 mm

Uptake: External diameter 950 mm Thickness of uptake plate 17.5 mm

Cross Tubes: No. ☒ External diameters { ☒ Thickness of plates ☒

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with yes

The foregoing is a correct description,
Schiffbau und Maschinenbau
Mann Manufac

Dates of Survey { During progress of work in shops - 1932
 while building { During erection on board vessel - 27/2, 2/3, 15/3, 31/3, 7/4, 14/4, 26/4 3/5 Is the approved plan of boiler forwarded herewith 8.2.32
 (If not state date of approval.)
 Total No. of visits 11

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Boilers have been constructed under Special Survey in accordance with the approved plan, the Secretary's letters and otherwise in conformity with the requirements of the Rules. The Materials used in the construction are made as work recognized by the Committee and tested as per Rule by the Port Surveyors. Materials and workmanship are of good quality

Marks on boilers:

No 144 & 145
LLOYD'S TEST
200 lbs
WP 100 lbs
AC. 3. 5. 32

Sign of adjusting washers
 Port Boiler. Port 15% Harb. 12%
 Starb " " 15.8% " 14.8%

These boilers are eligible to be noted in the Port Reg Book with: 2 DB pressure 100 lbs.

Please see Rpt 4 b.

Survey Fee	...	£ 8 : 8 :	When applied for,	19
Travelling Expenses (if any)	£	:	When received,	19

Committee's Minute FRI, 2 SEP 1932 A. Carstensen
 Assigned See other report. Bunn 1490 Engineer Surveyor to Lloyd's Register of Shipping.

