

## REPORT ON BOILERS.

No. 1027.

Writing Report 21st Nov. 1931. When handed in at Local Office

Received at London Office

Port of STETTIN

Survey held at Berlin - Fegel

Date, First Survey 2nd September Last Survey 18th November 1931

(Number of Visits 11.)

Gross  
Tons  
Net

Built at Nakshov

By whom built W. Nakshov Kiboravard No. 571 When built

s made at Berlin - Fegel

By whom made A. Borsig G. m. b. H.

Engine No. 8067 When made 1931

made at

By whom made

Boiler No. 27784/5 When made 1931

Horse Power 218

Owners Heglunga Polska

Port belonging to

## TITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Borsigwerk AG, Mannheim Röhrenwerke AG, Schling-Knaack, (Letter for Record S. 1)

Heating Surface of Boilers 290 sqm = 3122 sq ft. Is forced draught fitted yes

Description of Boilers 2 Multitubular Single ended Coal or Oil fired Coal

by hydraulic pressure to 360 lbs. Date of test 28.10.31 No. of Certificate 108 &amp; 109 Can each boiler be worked separately yes

Firegrate in each Boiler 34.7 sq ft. No. and Description of safety valves to each boiler 2 spring loaded

of each set of valves per boiler per Rule 6860 sq m Pressure to which they are adjusted 4400 Are they fitted with easing gear yes

of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers

Distance between shell of boiler and tank top plating Is the bottom of the boiler insulated

Internal dia. of boilers 3600 mm Length 3320 mm Shell plates: Material Steel Tensile strength 44.1 - 48.9 kgs

Thickness 24.5 mm Are the shell plates welded or flanged Description of riveting: circ. seams end double

Lams Double butt straps, (Diameter of rivet holes in circ. seams 32 mm inter. 94 mm

Percentage of strength of circ. end seams plate 66-70 rivets 49.3 % Pitch of rivets 200

Percentage of strength of longitudinal joint plate 84 % rivets 107.5 % Working pressure of shell by Rules 15.1 kgs

Percentage of strength of butt straps outer 25 mm inner 25 % No. and Description of Furnaces in each Boiler 2, Deighton 2 cf.

Material Steel Tensile strength 42.4 - 44.4 kgs Smallest outside diameter 1082 mm

of plain part top - Thickness of plates crown 16 mm Description of longitudinal joint welded

Bottom 16 Working pressure of furnace by Rules 15.2 kgs

Stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 15.2 kgs

Stays in steam space: Material Steel Tensile strength 43.1 - 46.4 kgs Thickness 28 mm Pitch of stays 400 x 325 mm

Stays secured Double nuts &amp; washers Working pressure by Rules 19.2 kgs

Material front Steel Tensile strength 43.1 - 46.4 kgs Thickness 28 mm

back 23 Working pressure by Rules 15.0 kgs

Pitch of stay tubes in nests 220 mm Pitch across wide water spaces 370 mm Working pressure by Rules 25.9 kgs

to combustion chamber tops: Material Steel Tensile strength 43.4 kgs Depth and thickness of girder

330 x 16 mm Length as per Rule 700 mm Distance apart 200 mm No. and pitch of stays

3, 160 mm Working pressure by Rules 18.7 kgs Combustion chamber plates: Material Steel

Strength 43.6 - 44.6 kgs Thickness: Sides 16 mm Back 16 mm Top 16 mm Bottom 18 mm

Stays to ditto: Sides 160 x 200 mm Back 180 x 180 mm Top 160 x 200 mm Are stays fitted with nuts or riveted over nuts

Working pressure by Rules 19.2 kgs Front plate at bottom: Material Steel Tensile strength 43.1 - 45.1 kgs

Thickness 28 mm Lower back plate: Material Steel Tensile strength 44 - 46.4 kgs Thickness 28 mm

Stays at wide water space 370 mm Are stays fitted with nuts or riveted over nuts

Main stays: Material Steel Tensile strength 44.1 - 46.5 kgs

At body of stay, 60 mm No. of threads per inch 6 Area supported by each stay 1300 sq cm

Over threads Screw stays: Material Steel Tensile strength 43.3 - 46.5 kgs

At turned off part, 54, 48 x 39 mm No. of threads per inch 9 Area supported by each stay 324 sq cm

Over threads



Working pressure by Rules 18.5 kgs Are the stays drilled at the outer ends no Margin stays: Diameter { At turned off part, 48 mm or Over threads 48 mm  
No. of threads per inch 9 Area supported by each stay 657 mm Working pressure by Rules 15 kgs  
Tubes: Material Steel External diameter { Plain 83 mm Stay 89 mm Thickness { 4 mm 3.5 & 4 mm No. of threads per inch 9  
Pitch of tubes 110 mm Working pressure by Rules 16 kgs Manhole compensation: Size of op  
shell plate 400 mm dia Section of compensating ring Steam dome No. of rivets and diameter of rivet holes -  
Outer row rivet pitch at ends - Depth of flange if manhole flanged 15 mm (Dome crown) Steam Dome: Material Steel  
Tensile strength 44.0 kgs Thickness of shell 17 mm Description of longitudinal joint Single riveted lap joint  
Diameter of rivet holes 26 mm Pitch of rivets 58 mm Percentage of strength of joint { Plate 55.2% Rivets 44.5%  
Internal diameter 800 mm Working pressure by Rules 16.3 kgs Thickness of crown 17 mm No. and d  
stays none Inner radius of crown 800 mm Working pressure by Rules 19.1 kgs  
How connected to shell riveted Size of doubling plate under dome 1380 x 20 mm Diameter of rivet holes  
of rivets in outer row in dome connection to shell 32 mm, 221 mm

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 sh  
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 press  
Rules Pressure to which the safety valves are adjusted Hydraulic test  
tubes, castings and after assembly in place Are drain cocks or va  
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,

Dates of Survey { During progress of work in shops - - - 2.9. 7.9. 14.9. 25.9. 2.10. 9.10. 14.10. Are the approved plans of boiler and superheater forwarded herewith 21.  
while building { During erection on board vessel - - - 23.10. 28.10. 4.11. 13.11. 1931. (If not state date of approval.)  
Total No. of visits 11

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.)

These Boilers are built under Special Survey in accordance with the approved plans and the requirements of the Rules. Material and workmanship are of good quality. They have been tested by water pressure to 360 lbs. and were found tight and strong in every respect.

Mark on Boilers:	No 108	No 109
	LLOYD'S TEST	LLOYD'S TEST
	360 lbs.	360 lbs.
	W.P. 206 lbs.	W.P. 206 lbs.
	N.S. 28.10.31.	N.S. 4.11.31.

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

M. H. H. H.  
Engineer Surveyor to Lloyd's Register of

Committee's Minute TUE. 9 FEB. 1932

Assigned Sa F. B. Rpt.



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