

## REPORT ON BOILERS.

No. 1081.

Received at London Office

20 AUG 1934

Date of writing Report 11th Aug. 1934. When handed in at Local Office

193

Port of **STETTIN**No. in Survey held at  
Reg. Book.

Berlin - Rudow

Date, First Survey

12th July

Last Survey

9th Aug. 1934.

(Number of Visits 5)

Gross 12092

Tons

Net 7548

Master

Built at

Newcastle

By whom built

Armstrong Whitworth &amp; Co. Ltd.

Yard No.

When built 1915.

Engines made at

Newcastle

By whom made

N.E. Marine Eng. Co. Ltd.

Engine No.

When made 1915

Boilers made at

Berlin - Rudow

By whom made

Rud. A. Hartmann AG.

Boiler No. 633 B

When made 1934.

Nominal Horse Power

790.

Owners

The Southern Whaling &amp; Sealing Co. Ltd.

Port belonging to

Vimodan (N.Z.)

One Fat Separator.**MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.**

Manufacturers of Steel

Kammesmann Röhrenwerke, Abt. Heinz. Bickner, Hülse (Letter for Record)

Total Heating Surface of Boilers

Is forced draught fitted

Coal or Oil fired

No. and Description of Boilers

One Fat Separator

Working Pressure 60 lbs. ✓

Tested by hydraulic pressure to

120 lb.

Date of test

9.8.34.

No. of Certificate

Rpt. 10

Can each boiler be worked separately

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

Area of each set of valves per boiler

per Rule

Pressure to which they are adjusted

Are they fitted with easing gear

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

Smallest distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

Largest internal dia. of boilers

2500 mm

Length

3250 mm

Shell plates: Material

Steel

Tensile strength

46.1 kg.

Thickness

13 mm

Are the shell plates welded or flanged

welded

Description of riveting: circ. seams

end electrically welded

long. seams

electrically welded

Diameter of rivet holes in

circ. seams

Pitch of rivets

Percentage of strength of circ. end seams

plate

Percentage of strength of circ. intermediate seam

plate

Percentage of strength of longitudinal joint

plate

Working pressure of shell by Rules

Thickness of butt straps

outer none

No. and Description of Furnaces in each Boiler

Material

Tensile strength

Smallest outside diameter

Length of plain part

top

Thickness of plates

crown

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

Steel

Tensile strength

45.0 kg.

Thickness

14 mm

Pitch of stays

none

How are stays secured

Working pressure by Rules 71 lb.

Tube plates: Material

front

Tensile strength

Thickness

Mean pitch of stay tubes in nests

Pitch across wide water spaces

Working pressure

front

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,

No. of threads per inch

Area supported by each stay

Over threads

Working pressure by Rules

Screw stays: Material

Tensile strength

Diameter

At turned off part,

No. of threads per inch

Area supported by each stay

Over threads

© 2020

Lloyd's Register

W1159 F0162



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 Stay      Thickness {      No. of threads per inch

Pitch of tubes      Working pressure by Rules      Manhole compensation: Size of opening in shell plate 300 x 450 mm      Section of compensating ring 100 x 20 mm      No. of rivets and diameter of rivet holes el. welded

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

How connected to shell      Size of doubling plate under dome      Working pressure by Rules

of rivets in outer row in dome connection to shell      Diameter of rivet holes and pitch

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

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,  
Rud. Hartmann      Manufacturer.

Dates of Survey { During progress of work in shops - - 12.7, 14.7, 24.7, 8.8, 9.8.34      Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)

while building { During erection on board vessel - - -      Total No. of visits 5.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This Separator has been built under Special Survey in accordance with the submitted plan, all requirements of the Secretary's letters respecting electric welding were satisfactorily carried out. It has been tested by water pressure to 120 lb. per sq inch and was found tight and sound at that pressure. The Separator is eligible in my opinion to be placed on board, subject to examination under steam with all mountings.

Marked on shell: No. 633 B.  
LLOYD'S TEST  
120 lb.  
W.P. 60 lb.  
N.S. 9.8.34. and "NS" on the rivets of the maker's name plate.

Survey Fee £ 10 : 0 : 0      When applied for, 11th Aug. 1934.

Travelling Expenses (if any) £ 7 : 10 : 0      When received, 192

M. Goese  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned