

REPORT ON MACHINERY.

No. 10304

THUR 18 JUN 1908

Port of *Hamburg*

Received at London Office

No. in Survey held at

Kiel

Date, first Survey

6th Oct. 07

Last Survey

12th June 1908

Reg. Book.

Supp 30 on the *Steel S. S.**"Johanne"*(Number of Visits *20*)Master *J. Högersen*

Built at

Kiel

By whom built

Howaldtswerke

Tons

Gross *776*Net *451*

When built

1908-6

Engines made at

Kiel

By whom made

Howaldtswerke

when made

1908

Boilers made at

Kiel

By whom made

Howaldtswerke

when made

1908

Registered Horse Power

84

Owners

J. Philippson & Co.

Port belonging to

Antwerp

Nom. Horse Power as per Section 28

84

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

yes

ENGINES, &c.—Description of Engines

Vertical Triple Expansion

No. of Cylinders

3

No. of Cranks

*3*Dia. of Cylinders *16 3/8 21 1/8 26 1/8*

Length of Stroke

25 1/2

Revs. per minute

95

Dia. of Screw shaft

8 3/4

Material of

Steel

Is the screw shaft fitted with a continuous liner the whole length of the stern tube

no liner

Is the after end of the liner made water tight

in the propeller boss *yes* If the liner is in more than one length are the joints burned *yes* If the liner does not fit tightly at the partbetween the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive *yes* If twoliners are fitted, is the shaft lapped or protected between the liners *yes* Length of stern bush*33 1/8*

Dia. of Tunnel shaft

6 3/4

Dia. of Crank shaft journals

7 3/4

Dia. of Crank pin

7 7/8

Size of Crank webs

14 1/2 x 4 1/2

collars

7 1/2

Dia. of screw

10 1/2

Pitch of Screw

10 1/8

No. of Blades

4

State whether moveable

no

No. of Feed pumps

2

Diameter of ditto

4

Stroke

6

Can one be overhauled while the other is at work

yes

No. of Bilge pumps

2

Diameter of ditto

2 1/2

Stroke

14

Can one be overhauled while the other is at work

yes

No. of Donkey Engines

2

Sizes of Pumps

2 1/2 & 4 1/2

No. and size of Suctions connected to both Bilge and Donkey pumps

*2 1/2 & 4 1/2*In Engine Room *5 - 4 off 2 1/2 in, 1 off 2 1/4 in*In Holds, &c. *4 in holds 2 in diam, 8 in Tanks 2 in diam*

No. of Bilge Injections

1

sizes

*3 1/2*Connected to condenser *yes* to circulating pump *yes* Is a separate Donkey Suction fitted in Engine room & size

Are all the bilge suction pipes fitted with roses

yes

Are the roses in Engine room always accessible

yes

Are the sluices on Engine room bulkheads always accessible

yes

Are all connections with the sea direct on the skin of the ship

*yes*Are they Valves or Cocks *Locks and valves*

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

yes

Are the Discharge Pipes above or below the deep water line

above

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel

yes

Are the Blow Off Cocks fitted with a spigot and brass covering plate

yes

What pipes are carried through the bunkers

None

How are they protected

yes

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

yes

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges

yes

Dates of examination of completion of fitting of Sea Connections

19th March 08 of Stern Tube 19/3.08

Screw shaft and Propeller

19/3.08

Is the Screw Shaft Tunnel watertight

yes

Is it fitted with a watertight door

*yes*worked from *Bridge deck Crating*BOILERS, &c.—(Letter for record *S*)

Manufacturers of Steel

Steel Plates: Blochwalzwerk Lübeck, Howaldt, Essen, Lüneburg: Thyssen & Co., Düsseldorf 94.12.

Total Heating Surface of Boilers

1446 sq. ft.

Is Forced Draft fitted

*no*No. and Description of Boilers *2 simple ended multi-tubular*

Working Pressure

180 lbs

Tested by hydraulic pressure to

360 lbs

Date of test

28/4.08

No. of Certificate

Can each boiler be worked separately

yes

Area of fire grate in each boiler

22.5 sq. ft.

No. and Description of Safety Valves to

each boiler *2 Spring loaded*

Area of each valve

3.14 sq. in.

Pressure to which they are adjusted

185 lbs

Are they fitted with easing gear

yes

Smallest distance between boilers or uptakes and bunkers

11 in

Mean dia. of boilers

9.5

Length

9.5

Material of shell plates

Steel

Thickness

.87

Range of tensile strength

27-30 tons

Are the shell plates welded or flanged

*no*Descrip. of riveting: cir. seams *lap riv.*

long. seams

she. butt.

Diameter of rivet holes in long. seams

.94

Pitch of rivets

6.5

Lap of plates or width of butt straps

13.7

Per centages of strength of longitudinal joint

97.7 %

Working pressure of shell by rules

193.8 lbs

Size of manhole in shell

12 x 16

Size of compensating ring

7.8 x .87

No. and Description of Furnaces in each boiler

2 corrugated

Material

Steel

Outside diameter

33 1/2

Length of plain part

top

Thickness of plates

1/2

Description of longitudinal joint

welded

No. of strengthening rings

yes

Working pressure of furnace by the rules

196.5 lbs

Combustion chamber plates: Material

Steel

Thickness: Sides

.6

Back

.6

Top

.6

Bottom

.8

Pitch of stays to ditto: Sides

7.5

Back

7.8

Top

7.5

If stays are fitted with nuts or riveted heads

yes

Working pressure by rules

196 lbs

Material of stays

Steel

Diameter at smallest part

1.37

Area supported by each stay

6.14

Working pressure by rules

199.3 lbs

End plates in steam space:

Material

Steel

Thickness

.88

Pitch of stays

.85

How are stays secured

4 nuts

Working pressure by rules

199.3 lbs

Material of stays

Steel

Diameter at smallest part

1.25

Area supported by each stay

11.34

Working pressure by rules

182.5 lbs

Material of Front plates at bottom

Steel

Thickness

.88

Material of Lower back plate

Steel

Thickness

.88

Greatest pitch of stays

12 1/4

Working pressure of plate by rules

180 lbs

Diameter of tubes

3 1/4

Pitch of tubes

4.3

Material of tube plates

Steel

Thickness: Front

.88

Back

.8

Mean pitch of stays

11.3

Pitch across wide water spaces

13.8

Working pressures by rules

240 lbs

Girders to Chamber tops: Material

Steel

Depth and

thickness of girder at centre

6 x 3/4

Length as per rule

21.6

Distance apart

7.5

Working pressure by rules

183 lbs

Superheater or Steam chest; how connected to boiler

yes

Can the superheater be shut off and the boiler worked

separately

yes

Diameter

yes

Length

yes

Thickness of shell plates

yes

Material

yes

Description of longitudinal joint

yes

Diam. of rivet

holes

yes

Pitch of rivets

yes

Working pressure of shell by rules

VERTICAL DONKEY BOILER—

Manufacturers of Steel

No Donkey Boiler fitted.

No.	Description	Made at	By whom made	When made	Where fixed
Working pressure	tested by hydraulic pressure to	Date of test	No. of Certificate	Fire grate area	Description of Safety
Valves	No. of Safety Valves	Area of each	Pressure to which they are adjusted	Date of adjustment	
If fitted with easing gear	If steam from main boilers can enter the donkey boiler	Dia. of donkey boiler	Length		
Material of shell plates	Thickness	Range of tensile strength	Descrip. of riveting long. seams		
Dia. of rivet holes	Whether punched or drilled	Pitch of rivets	Lap of plating	Per centage of strength of joint	Rivets Plates
Working pressure of shell by rules	Thickness of shell crown plates	Radius of do.	No. of stays to do.	Dia. of stays	
Diameter of furnace Top	Bottom	Length of furnace	Thickness of furnace plates	Description of joint	
Working pressure of furnace by rules	Thickness of furnace crown plates	Stayed by			
Diameter of uptake	Thickness of uptake plates	Thickness of water tubes	Dates of survey		

SPARE GEAR. State the articles supplied:— 1 propeller, 1 slider, 2 bolts of connecting rod top and bottom ends each, 2 main bearing bolts, 1 set coupling bolts, 1 set air pump rod, 1 set air pump valves, 1 set big pump valves, 1 set circulating pump valves, 1 set brasses for connecting rod top and bottom ends, 1 set square rings for each piston, 6 piston bolts, 1 spring for main safety valves, 1 set feed pump valves, 24 condenser tubes & ferrules, 6 boiler tubes, bolts, nuts and bar iron and plates assorted.

The foregoing is a correct description,

HOWALDTSWERKE

Manufacturer.

Dates of Survey while building: During progress of work in shops: 6/4, 19/4, 29/4, 4/5, 12/5, 19/5, 29/5, 6/6, 13/6, 20/6, 27/6, 4/7, 11/7, 18/7, 25/7, 1/8, 8/8, 15/8, 22/8, 29/8, 5/9, 12/9, 19/9, 26/9, 3/10, 10/10, 17/10, 24/10, 31/10, 7/11, 14/11, 21/11, 28/11, 5/12, 12/12, 19/12, 26/12, 2/1, 9/1, 16/1, 23/1, 30/1, 6/2, 13/2, 20/2, 27/2, 6/3, 13/3, 20/3, 27/3, 3/4, 10/4, 17/4, 24/4, 1/5, 8/5, 15/5, 22/5, 29/5, 5/6, 12/6, 19/6, 26/6, 3/7, 10/7, 17/7, 24/7, 31/7, 7/8, 14/8, 21/8, 28/8, 4/9, 11/9, 18/9, 25/9, 2/10, 9/10, 16/10, 23/10, 30/10, 6/11, 13/11, 20/11, 27/11, 4/12, 11/12, 18/12, 25/12, 1/1, 8/1, 15/1, 22/1, 29/1, 5/2, 12/2, 19/2, 26/2, 5/3, 12/3, 19/3, 26/3, 2/4, 9/4, 16/4, 23/4, 30/4, 7/5, 14/5, 21/5, 28/5, 4/6, 11/6, 18/6, 25/6, 2/7, 9/7, 16/7, 23/7, 30/7, 6/8, 13/8, 20/8, 27/8, 3/9, 10/9, 17/9, 24/9, 1/10, 8/10, 15/10, 22/10, 29/10, 5/11, 12/11, 19/11, 26/11, 3/12, 10/12, 17/12, 24/12, 31/12, 7/1, 14/1, 21/1, 28/1, 4/2, 11/2, 18/2, 25/2, 3/3, 10/3, 17/3, 24/3, 31/3, 7/4, 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