

# REPORT ON MACHINERY.

No. 9408

Port of Hamburg

Received at London Office

MON. 27 MAY 1901

No. in Survey held at

Flensburg

Date, first Survey

15. Dec. 06

Last Survey

18. May 1907

Book

52 on the Steel S. S.

"Neumünster"

(Number of Visits 22)

Gross 4224

Tons 2635

ter Wellhöfer

Built at

Flensburg

By whom built

Flensburger Schiffbau Ges.

When built 1907

ines made at Flensburg

By whom made

Flensburger Schiffbau Ges.

when made 1907

ers made at Flensburg

By whom made

Flensburger Schiffbau Ges.

when made 1907

istered Horse Power 473

Owners

Deutsche-torval. Dampfschiff. Ges.

Port belonging to Hamburg

Horse Power as per Section 28 473

Is Refrigerating Machinery fitted for cargo purposes no

Is Electric Light fitted yes

INES, &c.—Description of Engines

Triple Expansion

No. of Cylinders 3

No. of Cranks 3

of Cylinders 27 3/4", 46 1/4", 76"

Length of Stroke 48"

Revs. per minute 67

Dia. of Screw shaft

as per rule 15 3/4"

Material of Steel

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

Is the after end of the liner made water tight

the propeller boss yes

If the liner is in more than one length are the joints burned

If the liner does not fit tightly at the part

between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

are fitted, is the shaft lapped or protected between the liners

Length of stern bush 62"

of Tunnel shaft

as per rule 13 3/4"

Dia. of Crank shaft journals

as per rule 14 1/4"

Dia. of Crank pin

as fitted 14 3/4"

Size of Crank webs

2 1/2 x 18 1/2"

Dia. of thrust shaft under

webs 14 7/8"

Dia. of screw

18-6"

Pitch of Screw

18-0"

No. of Blades 4

State whether moveable

no

Total surface 81 sq. ft.

of Feed pumps 2

Diameter of ditto

4 3/8"

Stroke 30"

Can one be overhauled while the other is at work yes

of Bilge pumps 2

Diameter of ditto

4 7/8"

Stroke 30"

Can one be overhauled while the other is at work yes

of Donkey Engines 4

Sizes of Pumps

See Specifications

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

Engine Room 6-3 1/2"

from Tunnel peak

1-3 1/2"

from Tunnel

3-2 1/2"

In Holds, &c.

10-5 1/2"

from Tanks

12-4"

suctions.

of Bilge Injections

sizes 6"

Connected to

condenser, or to circulating pump

yes

Is a separate Donkey Suction fitted in Engine room

& size

yes-3"

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

none

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

Are they Valves or Cocks

both

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

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

at pipes are carried through the bunkers

none

How are they protected

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

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

yes

tes of examination of completion of fitting of Sea Connections

4. 4. 1907

of Stern Tube

6.5. 07

Screw shaft and Propeller

9.5. 07

the Screw Shaft Tunnel watertight yes

Is it fitted with a watertight door

yes

worked from

deck platform

Manufacturers of Steel

Messrs. Thyssen & Co. Nihilheim Rd. Duis.

al Heating Surface of Boilers

6255

Is Forced Draft fitted yes

No. and Description of Boilers

3 single ended multitubular

Working Pressure

180 lbs

Tested by hydraulic pressure to

360 lbs

Date of test

13. 4. 07

No. of Certificate

each boiler be worked separately yes

Area of fire grate in each boiler

49 sq. ft.

No. and Description of Safety Valves to

boiler 2 Spring loaded

Area of each valve

11.1 sq. in.

Pressure to which they are adjusted

180 lbs

Are they fitted with easing gear yes

smallest distance between boilers or uptakes and bunkers

on woodwork 10"

Mean dia. of boilers

13-9"

Length

12-0 1/2"

Material of shell plates

Steel

thickness 1-13"

Range of tensile strength

28-32 tons

Are the shell plates welded or flanged

—

Descrip. of riveting: cir. seams

lap, trip, riv.

seams

lap, trip, riv.

Diameter of rivet holes in long. seams

1-4"

Pitch of rivets

10-1"

Lap of plates or width of butt straps

20-3"

percentages of strength of longitudinal joint

101.2%

Working pressure of shell by rules

180 lbs

Size of manhole in shell

16-5" x 12-6"

of compensating ring

8" x 1-12"

No. and Description of Furnaces in each boiler

3 horizons

Material

Steel

Outside diameter

42-5"

length of plain part

2-5"

Thickness of plates

3-6"

Description of longitudinal joint

welded

No. of strengthening rings

none

Working pressure of furnace by the rules

207-366

Combustion chamber plates: Material

Steel

Thickness: Sides

6"

Back

6"

Top

6"

Bottom

1"

of stays to ditto: Sides

8-4"

Back

7-9"

Top

8-1"

If stays are fitted with nuts or riveted heads

both

Working pressure by rules

196 lbs

Material of stays

Steel

Diameter at smallest part

1-5"

Area supported by each stay

62 sq. in.

Working pressure by rules

221 lbs

End plates in steam space

Steel

Material of stays

Steel

Thickness

1"

Pitch of stays

15"

How are stays secured

both

Working pressure by rules

196 lbs

Material of Front plates at bottom

Steel

Diameter at smallest part

3"

Area supported by each stay

225 sq. in.

Working pressure by rules

242 lbs

Material of Lower back plate

Steel

Thickness

8 1/2"

Greatest pitch of stays

13-7 1/2"

Working pressure of plate by rules

16-366

Diameter of tubes

2-7 1/2"

Pitch of tubes

7-9"

Material of tube plates

Steel

Thickness: Front

1"

Back

7-9"

Mean pitch of stays

7-9"



