

Received at London Office 3 APR. 1916

Date of writing Report 23 March 1916 When handed in at Local Office

Port of Rotterdam

No. in Survey held at
Reg. Book.

Rotterdam

Date, First Survey August 1915

Last Survey March 1916

on the

Dutch Steam Steamer Lous

(Number of Visits)

Tons

Gross 1159 1/2
Net 675 1/2

Master W. C. Hendrickx

Built at Rotterdam

By whom built Messrs. Wilton & Leyland Co.

When built

1916

Engines made at

Rotterdam

By whom made

Messrs. Wilton & Leyland Co.

when made

1916

Boilers made at

Rotterdam

By whom made

Rotterdam

when made

1916

Registered Horse Power

120

Owners

Holland Submarine Marine

Port belonging to

Rotterdam

Nom. Horse Power as per Section 28

120

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

No

ENGINES, &c.—Description of Engines

Triple expansion

No. of Cylinders 3

No. of Cranks 3

Dia. of Cylinders

15 1/2 x 25 1/2 x 40

Length of Stroke

36

Revs. per minute

85

Dia. of Screw shaft

10

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

in the propeller boss

Yes

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

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

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

Length of stern bush

Dia. of Tunnel shaft

8 1/4

Dia. of Crank shaft journals

8 1/4

Dia. of Crank pin

Size of Crank webs

10 x 10

Dia. of thrust shaft under

collars

Dia. of screw

11 1/2

Pitch of Screw

12

No. of Blades

4

State whether moveable

No

Total surface

50 sq ft

No. of Feed pumps

2

Diameter of ditto

2 1/4

Stroke

14 1/2

Can one be overhauled while the other is at work

No. of Bilge pumps

2

Diameter of ditto

2 1/4

Stroke

14 1/2

Can one be overhauled while the other is at work

No. of Donkey Engines

two

Sizes of Pumps

10 x 10; 8 x 8

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

In Engine Room

three of 1 1/2", all centre suction

In Holds, &c.

one in each wing of 2" in fore hold, one in each wing of 1 1/2" in mid hold

No. of Bilge Injections

1

sizes

4"

Connected to

circulating pump

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

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

Yes

Are they Valves or Cocks

Both

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

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

What pipes are carried through the bunkers

No

How are they protected

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

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

Dates of examination of completion of fitting of Sea Connections

30/12

of Stern Tube

30/12

Screw shaft and Propeller

30/12

Is the Screw Shaft Tunnel watertight

No

Is it fitted with a watertight door

No

worked from

BOILERS, &c.—(Letter for record)

S

Manufacturers of Steel Messrs. Mannesmann Works, Düsseldorf, Germany

Total Heating Surface of Boilers

1981 sq ft

Is Forced Draft fitted

No

No. and Description of Boilers

One single ended vertical

Working Pressure

180 lb

Tested by hydraulic pressure to

240 lb

Date of test

20/12/15

No. of Certificate

601

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

65 sq ft

No. and Description of Safety Valves to

each boiler

2

Area of each valve

11 sq in

Pressure to which they are adjusted

180 lb

Smallest distance between boilers or uptakes and bunkers or woodwork

12 in

Mean dia. of boilers

14 1/2 in

Length

10 ft

Material of shell plates

Steel

Thickness

1 1/2 in

Range of tensile strength

28-52 tons

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

all round

long. seams

all round

Diameter of rivet holes in long. seams

1 1/16 in

Pitch of rivets

8 3/4 in

Lap of plates or width of butt straps

20 in

Per centages of strength of longitudinal joint

rivets 85%

plate 85%

Working pressure of shell by rules

101 lb

Size of manhole in shell

Size of compensating ring

9 x 1 1/2 in

No. and Description of Furnaces in each boiler

3 marine

Material

Steel

Outside diameters

14 in

Length of plain part

top 12 in

Thickness of plates

bottom 1 1/2 in

Working pressure of furnace by the rules

200 lb

Combustion chamber plates: Material

Steel

Thickness: Sides

1/4 in

Back

1/4 in

Top

1/4 in

Bottom

1/4 in

Pitch of stays to ditto: Sides

8 x 7 1/2 in

Back

7 1/2 x 7 1/2 in

Top

8 x 8 in

If stays are fitted with nuts or riveted heads

welded

Working pressure by rules

200 lb

Material of stays

Steel

Diameter at smallest part

1 1/2 in

Area supported by each stay

60 sq in

Working pressure by rules

216 lb

End plates in steam space

Material

Steel

Thickness

1/4 in

Greatest pitch of stays

Working pressure of plate by rules

191 lb

Diameter of tubes

3 1/2 in

Pitch of tubes

4 1/8 in

Material of tube plates

Steel

Thickness: Front

1/4 in

Back

1/8 in

Pitch across wide water spaces

14 1/4 in

Working pressures by rules

216 lb

Girders to Chamber tops: Material

Steel

Depth and

thickness of girder at centre

8 1/2 x 2 1/2 in

Length, as per rule

2 x 7 1/2 in

Distance apart

Working pressure by rules

230 lb

Superheater or Steam chest; how connected to boiler

welded

Can the superheater be shut off and the boiler worked

separately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

holes

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

If stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

No

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

No

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

No

11

Manufacturer.

Is the approved plan of main boiler forwarded herewith for
also. shafts and pumps, beam engine.

General Remarks (State quality of workmanship, opinions as to class, &c.)

Lloyd's Register
Foundation