

REPORT ON MACHINERY.

No. 12534

Received at London Office

FRI. OCT. 6 1922

Date of writing Report 26.9.1922 When handed in at Local Office

Port of Rotterdam

No. in Survey held at Sliedrecht
Reg. Book.

Date, First Survey 15.10.19 Last Survey 22.9.1922

on the Heel Screw Steamer, OOSTCAPPELLE

Master

Built at Vlaardingen

By whom built

W. V. Veenendaal Schepswaer

When built

1920.22.

Engines made at

Sliedrecht.

By whom made

W. V. Veenendaal

Machfab. De Klop

when made

1921

Boilers made at

Sliedrecht

By whom made

W. V. Veenendaal

Machfab. De Klop

when made

1921

Registered Horse Power

Owners Scheepvaart Mij. "Heerlam"

Port belonging to

Rotterdam

Nom. Horse Power as per Section 28

143

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

No

ENGINES, &c.—Description of Engines

Vertical Triple Expansion

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders

400 x 625 x 1050 mm

Length of Stroke

700 mm

Revs. per minute

110

Dia. of Screw shaft

as fitted 234 mm

Material of screw shaft

Is the screw shaft fitted with a continuous liner the whole length of the stern tube No. Pedwall patent

n the propeller boss Yes If the liner is in more than one length are the joints burned

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

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

Length of stern bush 975 mm

Dia. of Tunnel shaft

as fitted 197 mm

Dia. of Crank shaft journals

as fitted 206 mm

Dia. of Crank pin

206

Size of Crank webs

140 x 90

Dia. of thrust shaft under

collars 106 mm

Dia. of screw

3300

Pitch of Screw

3000 mm

No. of Blades

4

State whether moveable

No

Total surface

No. of Feed pumps

1

Diameter of ditto

75 mm

Stroke

550 mm

Can one be overhauled while the other is at work

Yes

No. of Bilge pumps

1

Diameter of ditto

75 mm

Stroke

550 mm

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

1

Sizes of Pumps

6 x 5 1/4 x 6 + 2" injector

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

2 in forward hold à 65 mm

2 in after

hold à 65 mm

In Engine Room

3 à 65 mm

1 under boilers à 65 mm

In Holds, &c.

2 in forward hold à 65 mm

2 in after

hold à 65 mm

No. of Bilge Injections

1 sizes 3 1/2"

Connected to

to circulating pump

Is a separate Donkey Suction fitted in Engine room & size

à 65 mm

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

No

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

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

Double bilge pipes

How are they protected

Under lumber boards

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

Is the Screw Shaft Tunnel watertight

Yes

Is it fitted with a watertight door

Yes

worked from

Upper platform

BOILERS, &c.—(Letter for record)

S

Manufacturers of Steel

David Colville

Total Heating Surface of Boilers

2873 sq. ft.

Is Forced Draft fitted

No

No. and Description of Boilers

2 Single Ended Marine boilers

Working Pressure

185 lb.

Tested by hydraulic pressure to

324 lb.

Date of test

21.5.21

No. of Certificate

732-733

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

36 sq. ft.

No. and Description of Safety Valves to

each boiler

2 Spring loaded

Area of each valve

4.9 sq. in.

Pressure to which they are adjusted

185 lb.

Smallest distance between boilers or uptakes and bunkers or woodwork

No side bunkers

Mean dia. of boilers

3400

Length

3150

Material of shell plates

Steel

Thickness

16 mm

Range of tensile strength

42-50 kg.

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

lap & riv.

long. seams

Double butt 3 x 4

Diameter of rivet holes in long. seams

18 mm

Pitch of rivets

100 mm

Lap of plates or width of butt straps

410 mm

Per centages of strength of longitudinal joint

rivets 95.5%

Working pressure of shell by rules

15.3 kg.

Size of manhole in shell

400 x 500 mm

Size of compensating ring

140 x 16 mm

No. and Description of Furnaces in each boiler

2 Mochrons

Material

Steel

Outside diameter

1050 mm

Length of plain part

top 14 mm

Thickness of plates

bottom 14 mm

Description of longitudinal joint

Welded

No. of strengthening rings

None

Working pressure of furnace by the rules

13.5 kg.

Combustion chamber plates: Material

Steel

Thickness: Sides

19 mm

Back

19 mm

Top

19 mm

Bottom

Pitch of stays to ditto: Sides

190 x 200

Back

80 x 184

Top

200 x 200

If stays are fitted with nuts or riveted heads

riveted but

Working pressure by rules

14.58 kg.

Material of stays

Steel

Area at smallest part

1139 mm

Area supported by each stay

4000 mm

Working pressure by rules

14.1 kg.

End plates in steam space:

Material

Steel

Material

Steel

Thickness

24 mm

Pitch of stays

380 x 455

How are stays secured

Double nut

Working pressure by rules

14.6 kg.

Material of stays

Area at smallest part

3848 mm

Area supported by each stay

142900 mm

Working pressure by rules

14.6 kg.

Material of Front plates at bottom

Steel

Thickness

24 mm

Material of Lower back plate

Steel

Thickness

14 mm

Greatest pitch of stays

360 mm

Working pressure of plate by rules

13.2 kg.

Diameter of tubes

76 mm

Pitch of tubes

98 mm

Material of tube plates

Steel

Thickness: Front

24 mm

Back

22 mm

Mean pitch of stays

Pitch across wide water spaces

380 mm

Working pressures by rules

14.1 kg.

Girders to Chamber tops: Material

Steel

Depth and

thickness of girder at centre

200 x 22 x 15 mm

Length as per rule

680 mm

Distance apart

200 mm

Number and pitch of stays in each

2 à 200 mm

Working pressure by rules

15.3 kg.

Steam dome: description of joint to shell

No

% of strength of joint

No

Diameter

No

Thickness of shell plates

No

Material

No

Description of longitudinal joint

No

Diam. of rivet holes

No

Pitch of rivets

No

Working pressure of shell by rules

No

Crown plates

No

Thickness

No

How stayed

No

SUPERHEATER. Type

No

Date of Approval of Plan

No

Tested by Hydraulic Pressure to

No

Date of Test

No

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

No

Is Easing Gear fitted

No

Diameter of Safety Valve

No

Pressure to which each is adjusted

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

IS A DONKEY BOILER FITTED?

No

If so, is a report now forwarded?

SPARE GEAR.

State the articles supplied:—Two top end bolts and nuts. Two bottom end bolts and nuts, two main bearing bolts, one set of connecting bolts, one set of feed and bilge pump valves. One set of piston springs. A quantity of assorted bolts and nuts and iron of various sizes.

The foregoing is a correct description,

M. V. Scheepsbouwwerf &

Machinefabriek

"DE KLOP"

H. den Ouden

Manufacturer.

Dates of Survey while building
During progress of work in shops -- 1919. 15/10 1920 29/10 25/10 25/10 24/10 13/10 22/11 1921. 29/11 21/12
During erection on board vessel --- 1921 29/11 16/12 25/12 13/1 1922 14/1 21/1 23/1
Total No. of visits 18.

Is the approved plan of main boiler forwarded herewith *Returned in London office.*
" " " donkey " " "

Dates of Examination of principal parts—Cylinders 15 Oct 1919 Slides 15 Oct 1919 Covers 15 Oct 1919 Pistons 15 Oct 1919 Rods 15 Oct 1919

Connecting rods 15 Oct 1919 Crank shaft 20-1-21 Thrust shaft 15 Oct 1919 Tunnel shafts 20-1-21 Screw shaft 22-11-20 Propeller 22-11-20

Stern tube 22-11-20 Steam pipes tested 25-6-21 Engine and boiler seatings 29-1-21 Engines holding down bolts 20-6-21

Completion of pumping arrangements 21-4-22 Boilers fixed 1-6-21 Engines tried under steam 22-9-22

Completion of fitting sea connections 29-1-21 Stern tube 29-1-21 Screw shaft and propeller 29-1-21

Main boiler safety valves adjusted 14-4-22. Thickness of adjusting washers *Port 19 mm 21 mm 20 mm*

Material of Crank shaft *Steel* Identification Mark on Do. *LL 4706 MK. 8.10* Material of Thrust shaft *Steel* Identification Mark on Do. *B*

Material of Tunnel shafts *Steel* Identification Marks on Do. *LL 4706 MK. 8.10* Material of Screw shafts *Steel* Identification Marks on Do. *B*

Material of Steam Pipes *Steel* Test pressure 540 lbs

Is an installation fitted for burning oil fuel *No* Is the flash point of the oil to be used over 150°F.

Have the requirements of Section 49 of the Rules been complied with

Is this machinery duplicate of a previous case *No* If so, state name of vessel

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

The machinery has been made in accordance with the Rules, Secretary's letters and approved plans, material tested as required and workman's good, the whole was found in a good working condition when tried and I am of opinion that this vessel is eligible to be recorded in the Society's Register Book with **LMC. 9.22. OG.**

It is submitted that this vessel is eligible for THE RECORD. + LMC 9.22. OG.

10/10/22

The amount of Entry Fee ... 36.00 When applied for.

Special ... 429.00 2/10 1922

Donkey Boiler Fee ...

Travelling Expenses (if any) ... 90.00 6-10-22

Committee's Minute

Assigned

TUE OCT. 10 1922

+ LMC. 9.22

Engine Surveyor to Lloyd's Register of Shipping.



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