

Rpt. 4.

## REPORT ON MACHINERY.

No. 8340

Date of writing Report 30 April 1921 When handed in at Local Office

Received at London Office

TUE. 3 MAY. 1921

Port of Amsterdam

No. in Survey held at  
Reg. Book.

Ymuiden

Date, First Survey 2 Sept.

Last Survey 10 April 1921

70172 on the Steel Single Screw Steamer "CONDOR"

(Number of Visits 8)

Master

Built at

Woubrugge

By whom built

N.V. Industriële M<sup>f</sup>. "HERA"

Tons } Gross 169.

Net 36.

When built 1920

Engines made at

Ymuiden

By whom made

N.V. Industriële M<sup>f</sup>. "HERA"

when made 1921

Boilers made at

Tilburg

By whom made

Mans Gek. Deprez

when made 1920

Registered Horse Power

Owners

N.V. Industriële M<sup>f</sup>. "HERA"

Port belonging to

Ymuiden

Nom. Horse Power as per Section 28

51.

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

no

## ENGINES, &amp;c.—Description of Engines

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders

250 x 400 x 700

Length of Stroke

540

Revs. per minute

112

Dia. of Screw shaft

as per rule 16.2

Material of

S.M.S.

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

no

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

no

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

yes

If two

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

lapped between liners

Length of stern bush

24.5"

Dia. of Tunnel shaft

as per rule 13.2

Dia. of Crank shaft journals

as per rule 8.0

Dia. of Crank pin

145

Size of Crank webs

110 x 190

Dia. of thrust shaft under

collars

160

Dia. of screw

240

Pitch of Screw

1 1/4"

No. of Blades

4

State whether moveable

no

Total surface

No. of Feed pumps

one

Diameter of ditto

90

Stroke

270

Can one be overhauled while the other is at work

yes

No. of Bilge pumps

one

Diameter of ditto

90

Stroke

270

Can one be overhauled while the other is at work

yes

No. of Donkey Engines

one

Sizes of Pumps

4 1/2" x 2 3/4" x 4 ejector = 1 1/2" x 2"

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

In Engine Room

3 x 2"

In Holds, &amp;c. in fishhold 2 x 2" and 1 x 2" in crew space

No. of Bilge Injections

one

size

3 1/8"

Connected to condenser, or to circulating pump

no

Is a separate Donkey Suction fitted in Engine room &amp; size

yes

2"

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

valves &amp; cocks

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

bilge pipes

How are they protected

wooden casing

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

yes

## BOILERS, &amp;c.—(Letter for record)

Manufacturers of Steel

Kindly see attached report

Total Heating Surface of Boilers

Is Forced Draft fitted

No. and Description of Boilers

Working Pressure

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of Safety Valves to

each boiler

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

Smallest distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

Length

Material of shell plates

Thickness

Range of tensile strength

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

long. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

Per centages of strength of longitudinal joint

rivets

plate

Working pressure of shell by rules

Size of manhole in shell

Size of compensating ring

No. and Description of Furnaces in each boiler

Material

Outside diameter

Length of plain part

top

Thickness of plates

crown

bottom

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

Material of stays

Area at smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space:

Material

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of stays

Area at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Thickness

Material of Lower back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

Diameter of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

Pitch across wide water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and

thickness of girder at centre

Length as per rule

Distance apart

Number and pitch of stays in each

Working pressure by rules

Steam dome: description of joint to shell

% of strength of joint

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

## SUPERHEATER. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

Date of Test

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

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

W1114-0222



IS A DONKEY BOILER FITTED?

no

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

Connecting rod top end & bottom ends bolts with nuts & main bearing bolts with nuts  
1 set of couple bolts & rods for circulation & air pumps, 1 set of valves for circ & air pump and feed  
& bilge pumps, 1 set of fisher springs. A quantity of assorted bolts & nuts  
Iron of various sizes

The foregoing is a correct description,

N.V. Industriële  
Maatschappij „HERA”

W. Polmann

Manufacturer.

Dates of Survey while building { During progress of work in shops - - }  
{ During erection on board vessel - - - }  
Total No. of visits {

Kindly see hms report 7799

2.7 Sept. Oct 6-7. Jan 15. 24. Feb 17. April 7.

Is the approved plan of main boiler forwarded herewith

“ “ “ donkey “ “ “

Dates of Examination of principal parts—Cylinders <sup>hms up 7799</sup> Slides <sup>date</sup> Covers <sup>date</sup> Pistons <sup>date</sup> Rods <sup>date</sup>

Connecting rods <sup>date</sup> Crank shaft <sup>date</sup> Thrust shaft 7.25 Sept 1920 Tunnel shafts 7.25 Sept 1920 Screw shaft 7 Sept 1920 Propeller 7 Sept 1920

Stern tube 7 Sept 1920 Steam pipes tested 29 Oct 1920 Engine and boiler seatings 29 Oct 1920 Engines holding down bolts 4 Nov 1920

Completion of pumping arrangements 7 Sept 1920 Boilers fixed 25 Sept 1920 Engines tried under steam 15 January 1921

Completion of fitting sea connections 7 Sept 1920 Stern tube 7 Sept 1920 Screw shaft and propeller 7 Sept 1920

Main boiler safety valves adjusted 15 January 1921 Thickness of adjusting washers  $\frac{12}{16}$  S.B.  $\frac{13}{16}$  Port

Material of Crank shaft S.M.S. Identification Mark on Do. <sup>1553 LLOYD'S</sup> Material of Thrust shaft S.M.S. Identification Mark on Do. <sup>1553 LLOYD'S</sup>

Material of Tunnel shafts S.M.S. Identification Marks on Do. <sup>1553 LLOYD'S</sup> Material of Screw shafts S.M.S. Identification Marks on Do. <sup>1553 LLOYD'S</sup>

Material of Steam Pipes Steel Test pressure 540 lbs

Is an installation fitted for burning oil fuel ☒ 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 ☒ If so, state name of vessel *Engine N°16 kindly see hms up 7799*

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

This Engine & vessel's Machinery has been made in accordance with the Society's rules and as per approved plan. Material duly tested Workmanship throughout good. Engine tried under working condition found working satisfactory & without heading whatever

It is submitted that  
this vessel is eligible for  
THE RECORD. + LMC. 4.21.

Roll

9/10/21

9/10/21

The amount of Entry Fee ... £ 24.00 :  
Special ... £ 100.00 :  
Donkey Boiler Fee ... £ :  
Travelling Expenses (if any) £ 20.00 :  
When applied for, 19  
When received, 19

*P. J. J. J.*  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE MAY. 10 1921

Assigned + LMC. 4.21

CERTIFICATE WRITTEN



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Foundation