

REPORT ON MACHINERY.

No. 8340

Received at London Office

TUE. 3 MAY. 1921

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

Port of Amsterdam

No. in Survey held at Reg. Book. 70172

Ymuiden

Date, First Survey 2 Sept.

Last Survey 10 April 1921

on the Steel Single Screw Steamer "CONDOR"

(Number of Visits 8)

Master

Built at Woubrugge

By whom built N.V. Industriële M^o "HERA"

When built 1920

Tons } Gross 169.
Net 36.

Engines made at Ymuiden

By whom made N.V. Industriële M^o "HERA"

when made 1921

Boilers made at Ymuiden

By whom made N.V. Industriële M^o "HERA"

when made 1920

Registered Horse Power

Owners N.V. Industriële M^o "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, &c.—Description of Engines

Triple exp.

No. of Cylinders 3

No. of Cranks 3

Dia. of Cylinders 9 1/16, 15 3/4, 27 9/16

Length of Stroke 21 1/4

Revs. per minute 112

Dia. of Screw shaft as per rule 16.2

Material of screw shaft SMS

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

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

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 3.0

Dia. of Crank pin 1.45

Size of Crank webs 110 x 190

Dia. of thrust shaft under collars 1.60

Dia. of screw 24.00

Pitch of Screw

No. of Blades 4

State whether moveable no

Total surface

No. of Feed pumps one

Diameter of ditto 90 mm

Stroke 270 mm

Can one be overhauled while the other is at work

No. of Bilge pumps one

Diameter of ditto 90 mm

Stroke 270 mm

Can one be overhauled while the other is at work

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, &c. in fishhold 2 x 2" and 1 x 2" in crew space

No. of Bilge Injections one

sizes 3/8"

Connected to condenser, or to circulating pump as a separate Donkey Suction fitted in Engine room & size 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 none

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

Are they Valves or Cocks valves & 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

Is it fitted with a watertight door

worked from

BOILERS, &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

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

Thickness of plates

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

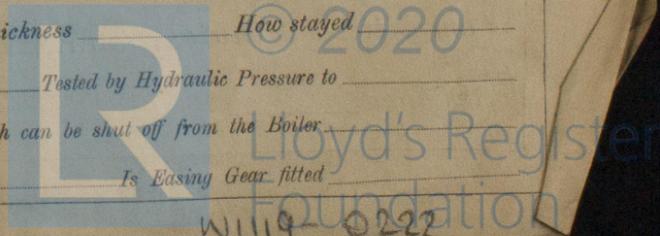
Date of Test

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



W1119-0222

IS A DONKEY BOILER FITTED? *no*

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

*Something good top and bottom ends bolts with nuts & main bearing full back nuts
1 set of couple bolts, rods for circulation & air pumps, 1 set of valves for ease & air pump and feed
& bilge pumps, 1 set of piston springs. A quantity of assorted bolts & nuts
Iron of various sizes*

The foregoing is a correct description,

**N.V. Industriële
Maatschappij „HERA”
W. Polceman.**

Manufacturer.

Dates of Survey while building { During progress of work in shops -- } *Kindly see hms report 7799*
{ During erection on board vessel -- } *2.7 Sept. Oct 6-7. Jan 15. 24. Feb 17. April 7.*
Total No. of visits

Is the approved plan of main boiler forwarded herewith

“ “ “ donkey “ “ “

Dates of Examination of principal parts—Cylinders *sub up 7799* Slides *date* Covers *date* Pistons *date* Rods *date*
Connecting rods *date* Crank shaft *date* 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 *12" S.B. 13" Port.*
Material of Crank shaft *SMS* Identification Mark on Do. *153 LLOYD'S* Material of Thrust shaft *SMS* Identification Mark on Do. *153 LLOYD'S*
Material of Tunnel shafts *SMS* Identification Marks on Do. *H.P.B. 10 H.20* Material of Screw shafts *SMS* Identification Marks on Do. *153 LLOYD'S*
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 *Yes* 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 heating whatever

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

Roll

9/15/21

9/15/21

Certificate (if required) to be sent to
The Surveyors are requested not to write on or below the space for Committee's Minute.

The amount of Entry Fee ... *94.00* : When applied for,
Special ... *100.00* : 19
Donkey Boiler Fee ... : : When received,
Travelling Expenses (if any) *20.00* : *12/15/21*

F. Jurgdorff
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute *TUE MAY. 10 1921*
Assigned *+ LMC. 4.21*