

Rpt. 4.

## REPORT ON MACHINERY.

No. 11504

FRI. NOV. 19 1920

Date of writing Report 15 Nov 1920 When handed in at Local Office

19 Port of Rotterdam

Date, First Survey 4 Sept

Last Survey 15 Nov 1920

No. in Survey held at Rijkswater

Reg. Book.

on the Steamship "MARSDIEP" No. 47

(Number of Visits 9)

Gross 2014

Net 1177

When built 1920

Master A. B. Kers

Built at Capelle 74 1/2 ft

By whom built A. Kuyk en Zonen

Engines made at Amsterdam

By whom made Verschuren &amp; Schipperwerf

when made 1920

Boilers made at Rotterdam

By whom made Burghmans &amp; Schipperwerf

when made 1916-1920.

Registered Horse Power

Owners Holl Maatschappij

Port belonging to Rotterdam

Nom. Horse Power as per Section 28 222.9

Is Refrigerating Machinery fitted for cargo purposes no

Is Electric Light fitted yes

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

See Amsterdam Rep No 8168

No. of Cylinders

No. of Cranks

Dia. of Cylinders

Length of Stroke

Revs. per minute

Dia. of Screw shaft

as per rule

Material of

screw shaft

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

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

Length of stern bush

Dia. of Tunnel shaft

as per rule

Dia. of Crank shaft journals

as per rule

Dia. of Crank pin

Size of Crank webs

Dia. of thrust shaft under

collars

Dia. of screw

Pitch of Screw

No. of Blades

State whether moveable

Total surface

No. of Feed pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

No. of Bilge pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

No. of Donkey Engines

Sizes of Pumps

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

In Engine Room 4 x 3" in Dry tank 2 x 3" in

In Holds, &amp;c. I 2 x 3" in II 2 x 3"

Tunnel 1 x 3" one suction on each hold 3"

No. of Bilge Injections 1 sizes 5" Connected to condenser or to circulating pump

Is a separate Donkey Suction fitted in Engine room &amp; size 4 1/2 x 3"

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 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

How are they protected

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 E.R. top platform

## BOILERS, &amp;c.—(Letter for record 5)

Manufacturers of Steel

See Prime Rep No 11504

Total Heating Surface of Boilers 4120

Is Forced Draft fitted no

No. and Description of Boilers 2 5.5 multibubblers

Working Pressure 100

Tested by hydraulic pressure to

Date of test 25.5.17

No. of Certificate 683

Can each boiler be worked separately yes

Area of fire grate in each boiler

No. and Description of Safety Valves to

each boiler 2 Spring loaded

Area of each valve 5.940"

Pressure to which they are adjusted 100

Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork 9 1/2"

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

Per centages of strength of longitudinal joint

rivets.....

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.....

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

End plates in steam space:

Material of stays

Area at smallest part

Area supported by each stay

Working pressure by rules

Material of stays

Material

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of Front plates at bottom

Area at smallest part

Area supported by each stay

Working pressure by rules

Material of plate by rules

Thickness

Material of Lower back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

Mean pitch of stays

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

% of strength of joint

Working pressure by rules

Steam dome: description of joint to shell

Diam. of rivet holes

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

How stayed

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

Is Easing Gear fitted

## UPERHEATER. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

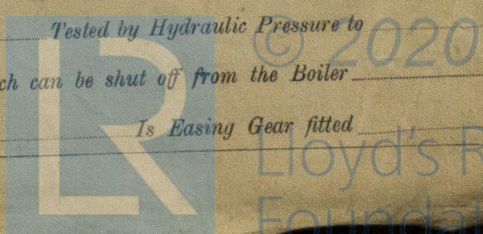
Date of Test

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



Lloyd's Register Foundation

W48-0125



IS A DONKEY BOILER FITTED? *no*

If so, is a report now forwarded? *✓*

SPARE GEAR. State the articles supplied:— *2 top end bolts and nuts, 2 bottom end bolts and nuts, two main bearing bolts, one set of coupling bolts, one set of feed and one set of bilge pump valves, one set of piston springs, assorted bolts and nuts, one propeller shaft, one propeller, iron of various sizes*

The foregoing is a correct description,

Manufacturer.

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

*4/9-24/9-8/10-20/10-29/10-3/11-10/11-15/11-1920*

Is the approved plan of main boiler forwarded herewith

" " " donkey " " " *✓*

Dates of Examination of principal parts—Cylinders

Slides

Covers

Pistons

Rods

Connecting rods

Crank shaft

Thrust shaft

Tunnel shafts

Screw shaft

Propeller

Stern tube

Steam pipes tested *28-29/10*

Engine and boiler seatings *22/9-20*

Engines holding down bolts *2/11-20*

Completion of pumping arrangements *3/11-20*

Boilers fixed *3/11-20*

Engines tried under steam *10/11-20*

Completion of fitting sea connections *4/9-20*

Stern tube *4/9-20*

Screw shaft and propeller *4/9-20*

Main boiler safety valves adjusted *10/11-20*

Thickness of adjusting washers *SB 3/4*

Port *11/16*

Material of Crank shaft

Identification Mark on Do.

Material of Thrust shaft

Identification Mark on Do.

Material of Tunnel shafts

Identification Marks on Do.

Material of Screw shafts

Identification Marks on Do.

Material of Steam Pipes *5 1/2 inch*

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 and fitted in accordance with the Society's Rules, approved plans and Secretary's letters, material tested as required and workmanship good. It has worked satisfactorily during a trial and may in my opinion be recorded in Society's Register Book with + LMC. 11-20*

It is submitted that this vessel is eligible for THE RECORD. + LMC. 11.20

*Rel*

*24/11/20*

*ARX*

The amount of Entry Fee ...

*£ 24.00*

When applied for,

1/3 Special ...

*£ 125.00*

19

Donkey Boiler Fee ...

*£*

When received,

Travelling Expenses (if any) *£ 38.50*

19

Committee's Minute

*FRI. NOV. 26 1920*

Assigned

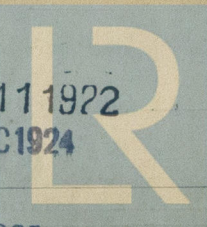
*+ LMC. 11.20*

*FRI. AUG. 11 1922*

*TUES. 23 DEC 1924*

CERTIFICATE WRITTEN

*TUES. 15 SEP 1925*  
*TUES. 29 DEC 1925*



© 2020

Lloyd's Register Foundation