

REPORT ON MACHINERY.

No. 12550

Date of writing Report 1 Oct. 1922 When handed in at Local Office

Port of Rotterdam

No. in Survey held at Dordrecht

Date, First Survey 29.10.19 Last Survey 23.9.1922

Reg. Book.

on the Steel Screw Steamer "MAJA"

(Number of Visits 12)

Gross 460.
Net 364.

Master Built at Vlaardingen By whom built W. Scheepswerven Gebr. de Waard When built

Engines made at Dordrecht By whom made Machfab. "de Boesbosch" when made 1922

Boilers made at Hettin By whom made Vulkan Werke when made 1920

Registered Horse Power Owners Noordelyke Credit Bank Port belonging to Hoogerland.

Nom. Horse Power as per Section 28 115 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 15x15x40 Length of Stroke 24 Revs. per minute 130 Dia. of Screw shaft 8 1/2 as fitted 8 1/2 Material of Steel

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 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 36"

Dia. of Tunnel shaft 7 1/2 as fitted 7 1/2 Dia. of Crank shaft journals 7 1/2 as fitted 7 1/2 Dia. of Crank pin 4 1/2 Size of Crank webs 3 1/2 x 3 1/2

collars 7 1/2 Dia. of screw 9-0 Pitch of Screw 9-0 No. of Blades 4 State whether moveable No Total surface 31 ft

No. of Feed pumps 4 Diameter of ditto 2 1/4 Stroke 12 Can one be overhauled while the other is at work Yes

No. of Bilge pumps 2 Diameter of ditto 2 1/4 Stroke 12 Can one be overhauled while the other is at work Yes

No. of Donkey Engines 2 Sizes of Pumps 6x4x4 No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room: 4 in 65 m.m. One in tunnel 65 m.m. In Holds, &c. 2 in 65 m.m. in forehold. 2 in 65 m.m.

in afterhold. No. of Bilge Injections 1 sizes 3 1/2 Connected to circulating pump Is a separate Donkey Suction fitted in Engine room & size Yes 2 in 65 m.m.

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 Solid suction pipes How are they protected Lumberboards

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) Manufacturers of Steel

Please see. Hettin report. No. 806.

Total Heating Surface of Boilers 2150 sq. ft. Is Forced Draft fitted No No. and Description of Boilers 2 Single ended Marine Boilers

Working Pressure 192 lb. Tested by hydraulic pressure to Date of test No. of Certificate

Can each boiler be worked separately Yes Area of fire grate in each boiler 33 sq. ft. No. and Description of Safety Valves to

each boiler 2 Spring loaded Area of each valve 4.90 sq. in. Pressure to which they are adjusted 192 lb. Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork None 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 Working pressure of shell by rules Size of manhole in shell

Size of compensating ring No. and Description of Furnaces in each boiler 2 cf. 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

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

003391-003400-0270

Lloyd's Register
Foundation

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 and nuts, one set of coupling bolts one set of feed and bilge pump valves, A quantity of assorted bolts and nuts and iron of various sizes

The foregoing is a correct description,

N.V. Machinefabriek „DE BIESBOSCH“

de Directie

Manufacturer.

Dates of Survey while building

During progress of work in shops --
During erection on board vessel --
Total No. of visits

1919. Oct 29 1920 Aug 28 Oct 4. Nov 8. 15 1921 Febr 1
1922. May 22. July 3. 15. Aug 4. 10. Sept 23.
12

Is the approved plan of main boiler forwarded herewith Copy of
" " " donkey " " "

Dates of Examination of principal parts—Cylinders 28-8-20 15-10-20 Slides 8-11-20 Covers 8-11-20 Pistons 8-11-20 Rods 29-10-19
Connecting rods 29-10-19 Crank shaft 29-10-19 Thrust shaft 29-10-19 Tunnel shafts 15-11-20 Screw shaft 7-10-20 Propeller 7-10-20
Stern tube 8-11-20 Steam pipes tested 4-8-22 Engine and boiler seatings 22-5-22 Engines holding down bolts 3-6-22
Completion of pumping arrangements 10-8-22 Boilers fixed 3-6-22 Engines tried under steam 23-9-22
Completion of fitting sea connections 22-5-22 Stern tube 22-5-22 Screw shaft and propeller 22-5-22
Main boiler safety valves adjusted 10-8-22 Thickness of adjusting washers 20 mm 21 mm Port

Material of Crank shaft SM Steel Identification Mark on Do. 25-10-19 Material of Thrust shaft SM Steel Identification Mark on Do. 25-10-19

Material of Tunnel shafts SM Steel Identification Marks on Do. 25-10-19 Material of Screw shafts SM Steel Identification Marks on Do. 25-10-19

Material of Steam Pipes Steel Test pressure 580 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, approved plans and Secretary's letters, material tested as required and workmanship good, the whole was found in a good working condition during a trial trip on the River Maas and I am of opinion that this vessel is eligible to be recorded in the Society's Register Book with LMC 10-22. OG.

It is submitted that this vessel is eligible for THE RECORD. + LMC 10.22. OG.

The amount of Entry Fee ...

Special ...

Donkey Boiler Fee ...

Travelling Expenses (if any) £

When applied for,

When received,

Committee's Minute

Assigned

FRI. 20 OCT. 1922

+ Lond 9.22

O.G.

CERTIFICATE WRITTEN

Engineer Surveyor to Lloyd's Register of Shipping.



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