

# 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

Date, First Survey 15-10-19 Last Survey 22-9-1922

Reg. Book. on the Heel Screw Steamer "OOSTCAPPELLE"

Number of Visits 10  
Gross Tons 450  
Net Tons 332

Master Built at Vlaardingen By whom built N.V. Verengde Scheepswerven When built 1920-22

Engines made at Sliedrecht By whom made N.V. Scheepswerven & Machfab. "De Klop" when made 1912

Boilers made at Sliedrecht By whom made N.V. Scheepswerven & Machfab. "De Klop" when made 1921

Registered Horse Power Owners "Scheepvaart Mij. "Leerdam" 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 234 mm Material of screw shaft Steel

Is the screw shaft fitted with a continuous liner the whole length of the stern tube No. Pedewalls patent Is the after end of the liner made water tight

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 No If two

liners are fitted, is the shaft lapped or protected between the liners No Length of stern bush 975 mm

Dia. of Tunnel shaft 197 mm Dia. of Crank shaft journals 206 mm Dia. of Crank pin 206 mm Size of Crank webs 140 x 90 mm Dia. of thrust shaft under

collars 106 mm Dia. of screw 3300 mm Pitch of Screw 3000 mm No. of Blades 4 State whether moveable No Total surface 3.4 sq. m

No. of Feed pumps 2 Diameter of ditto 75 mm Stroke 550 mm Can one be overhauled while the other is at work Yes

No. of Bilge pumps 2 Diameter of ditto 75 mm Stroke 550 mm Can one be overhauled while the other is at work Yes

No. of Donkey Engines 2 Sizes of Pumps 6 x 5 1/4 x 6 + 2" injector No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room 3 in boiler room 1 under boiler in holds, &c. 2 in forward hold 2 in after hold 2 in after hold

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

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 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. Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork No side bunkers Mean dia. of boilers 3400 mm Length 3150 mm Material of shell plates Steel

Thickness 26 mm Range of tensile strength 42-50 kg/cm<sup>2</sup>. Are the shell plates welded or flanged No Descrip. of riveting: cir. seams lap & riv

long. seams Double butt 3 x 2 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/cm<sup>2</sup> 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 Modern Material Steel Outside diameter 1050 mm

Length of plain part top bottom Thickness of plates crown bottom 14 mm Description of longitudinal joint Welded No. of strengthening rings None

Working pressure of furnace by the rules 13.5 kg/cm<sup>2</sup> Combustion chamber plates: Material Steel Thickness: Sides 19 mm Back 19 mm Top 19 mm Bottom 19 mm

Pitch of stays to ditto: Sides 190 x 200 mm Back 80 x 104 mm Top 200 x 200 mm If stays are fitted with nuts or riveted heads riveted but not in margin Working pressure by rules 14.58 kg/cm<sup>2</sup>

Material of stays Steel Area at smallest part 1139 mm<sup>2</sup> Area supported by each stay 4000 mm<sup>2</sup> Working pressure by rules 14.1 kg/cm<sup>2</sup> End plates in steam space:

Material Steel Thickness 24 mm Pitch of stays 380 x 455 mm How are stays secured Double nut & washer Working pressure by rules 14.6 kg/cm<sup>2</sup> Material of stays Steel

Area at smallest part 3848 mm<sup>2</sup> Area supported by each stay 142900 mm<sup>2</sup> Working pressure by rules 14.6 kg/cm<sup>2</sup> 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/cm<sup>2</sup>

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 196 mm

Pitch across wide water spaces 380 mm Working pressures by rules 14.1 kg/cm<sup>2</sup> Girders to Chamber tops: Material Steel Depth and

thickness of girder at centre 200 x 22 x 17 mm Length as per rule 680 mm Distance apart 200 mm Number and pitch of stays in each 2 in 200 mm

Working pressure by rules 15.3 kg/cm<sup>2</sup> 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

Diameter of Safety Valve No Pressure to which each is adjusted No Is Easing Gear fitted 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. 10/10, 1920. 2/15, 10/25, 10/28, 11/24, 12/10, 12/11, 1921. 2/11, 2/21, 2/23. During erection on board vessel: 1921. 2/11, 2/16, 2/16, 2/19, 1922. 4/14, 4/14, 4/19. Total No. of visits: 18.

Is the approved plan of main boiler forwarded herewith *Returned in Houston 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 mill, Starboard 21 mill, Port 20 mill, Starboard 20 mill*, Material of Crank shaft *Steel*, Identification Mark on Do. *L 0700, MK. 8.10*, Material of Thrust shaft *Steel*, Identification Mark on Do. *B*, Material of Tunnel shafts *Steel*, Identification Marks on Do. *L 0700, 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? *No*

Have the requirements of Section 49 of the Rules been complied with? *No*

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

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 workmanship 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 **\* L M C. 9. 22. 09.**

It is submitted that this vessel is eligible for THE RECORD. + L M C 9. 22. 09.

*Handwritten signature and date 10/10/22*

*Handwritten signature*  
Engine Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... *36.00* When applied for, *2/10 1922*  
Special ... *429.00*  
Donkey Boiler Fee ... *90.00* When received, *6-10-22*  
Travelling Expenses (if any) ... *90.00*

Committee's Minute

Assigned

TUE OCT. 10 1922

+ L M C. 9. 22

MACHINERY CERT. WRITTEN



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Certificate (if required) to be sent to *Surveyors Rotterdam*

The Surveyors are requested not to write on or below the space for Committee's Minute.