

REPORT ON MACHINERY.

No. 9987

Received at London Office

MON. 20. MAR. 1916

Date of writing Report 13 March 1916 When handed in at Local Office

19

Port of Rotterdam

No. in Survey held at Rotterdam

Date, First Survey May 17 1916 Last Survey March 7 1916

Reg. Book.

on the S. Yacht nr. 424

(Number of Vessels)

Tons { Gross
Net

When built 1906

Master Built at Rotterdam By whom built J. Meyer, Highmeyer & Co.

Engines made at Rotterdam By whom made Burgerhout, Machinefabriek, Schiedamschen dijk

Boilers made at Rotterdam By whom made Do. when made

Registered Horse Power 186 Owners Minn. Gouda, Rotterdam Port belonging to Rotterdam

Nom. Horse Power as per Section 28. 186 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple expansion

No. of Cylinders 3

No. of Cranks 3

Dia. of Cylinders 17 1/4 x 19 1/2 x 44 1/4 Length of Stroke 35 1/2 Revs. per minute 980 Dia. of Screw shaft as per rule 10.83 app. Material of screw shaft Steel

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

in the propeller boss No 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 3' 4 1/2"

Dia. of Tunnel shaft as per rule 9.38 app. Dia. of Crank shaft journals as per rule 9.34 app. Dia. of Crank pin 10" Size of Crank webs 7 1/2 x 6 1/2 Dia. of thrust shaft under

collars 9.84 app. Dia. of screw 12" Pitch of Screw 14" No. of Blades 4 State whether moveable No Total surface 55 sq. ft.

No. of Feed pumps 2 Diameter of ditto 2 1/8" Stroke 18 1/2" Can one be overhauled while the other is at work Yes

No. of Bilge pumps 2 Diameter of ditto 3 1/4" Stroke 18 1/2" Can one be overhauled while the other is at work Yes

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

In Engine Room In Holds, &c.

No. of Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size

Are all the bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible

Are all connections with the sea direct on the skin of the ship Are they Valves or Cocks

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the Discharge Pipes above or below the deep water line

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Are the Blow Off Cocks fitted with a spigot and brass covering plate

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

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges

Dates of examination of completion of fitting of Sea Connections of Stern Tube Screw shaft and Propeller

Is the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record No. 25B) Manufacturers of Steel Rheinische Stahlwerke, Werk III, Düsseldorf

Total Heating Surface of Boilers 3360 sq. ft. Is Forced Draft fitted No. and Description of Boilers 2 Horizontal marine boilers

Working Pressure 192 lb. Tested by hydraulic pressure to 288 lb. Date of test 30.9.15. No. of Certificate 591

Can each boiler be worked separately Yes Area of fire grate in each boiler 48 sq. ft. No. and Description of Safety Valves to

each boiler 2 Spring loaded Area of each valve 5.94 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 3 feet Mean dia. of boilers 15 1/4" Length 10 1/2" Material of shell plates Steel

Thickness 1 1/4" Range of tensile strength 28.8 - 35 ton Are the shell plates welded or flanged No Descrip. of riveting: cir. seams lap all round

long. seams double butt Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 8 1/4" Lap of plates or width of butt straps 18 1/2"

Per centages of strength of longitudinal joint rivets 88% plate 85% Working pressure of shell by rules 200 lb. Size of manhole in shell 12 x 14"

Size of compensating ring 6 1/2 x 14" No. and Description of Furnaces in each boiler 2 Small Rpt. 6959 Material Steel Outside diameter 4 1/2"

Length of plain part top 16" bottom 16" Thickness of plates crown 1 1/4" bottom 1 1/4" Description of longitudinal joint Welded No. of strengthening rings 4

Working pressure of furnace by the rules 204 lb. Combustion chamber plates: Material Steel Thickness: Sides 1 1/4" Back 1 1/4" Top 1 1/4" Bottom 1 1/4"

Pitch of stays to ditto: Sides 14 1/2 x 14 1/2 Back 14 1/2 x 14 1/2 Top 14 1/2 x 14 1/2 If stays are fitted with nuts or riveted heads riveted Working pressure by rules 192 lb.

Material of stays Steel Diameter at smallest part 1 1/2" Area supported by each stay 590 sq. in. Working pressure by rules 206 lb. End plates in steam space

Material Steel Thickness 1 1/4" Pitch of stays 14 1/2 x 14 1/2 How are stays secured riveted Working pressure by rules 214 lb. Material of stays Steel

Diameter at smallest part 1 1/2" Area supported by each stay 290 sq. in. Working pressure by rules 294 lb. Material of Front plates at bottom Steel

Thickness 1 1/4" Material of Lower back plate Steel Thickness 1 1/4" Greatest pitch of stays 14 1/2 x 14 1/2 Working pressure of plate by rules 192 lb.

Diameter of tubes 3 1/4" Pitch of tubes 14 1/2 x 14 1/2 Material of tube plates Steel Thickness: Front 1 1/4" Back 1 1/4" Mean pitch of stays 11 1/2"

Pitch across wide water spaces 14 1/2" Working pressures by rules 260 lb. Girders to Chamber tops: Material Steel Depth and

thickness of girder at centre 8 1/4 x 13 1/4 Length as per rule 2 1/4 Distance apart 8 1/4 Number and pitch of stays in each 20 x 14 1/2"

Working pressure by rules 192 lb. Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked

separately No Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

Lloyd's Register
W806-0017

IS A DONKEY BOILER FITTED? *Yes.* ✓

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

One top end belt, nuts; 2 bottom end belts, nuts; 2 main beam belts; 1 delivery
belt; 1 set piston belt; 1 set feed and. hel. pump roller; 1 set air and circulating
pump roller; 1 set of piston springs; 6 feed beam belt; 1 feed pump roller; 12 condenser
tubes; 1 pair of bottom end beam, 2 quantity of assorted belt, nuts, Screws
of various sizes; 6 studs for cylinder cover; 1 propeller shaft, nut
1 propeller; 12 boiler tubes.

The foregoing is a correct description,

De Nederlandsche Maatschappij
BURGERMIDDELSMAKERS & SCHEEPSWERF

Manufacturer.

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

May 14 June 20 July 21 Aug. 14 26 Sept 18 9. 28. 30 Oct. 27 Dec. 27. 30.
Aug. 25. Feb. 23. March 7.

In the approved plan of main boiler forwarded herewith *for*
also sketch of plan

Dates of Examination	Date of principal parts	Cylinders	Shots	Coarses	Pistons	Rods
Connecting rods	Crank shaft	Thrust shaft	Tunnel shafts	Screw shaft	Propeller	
Stern tube	Steam pipes tested	Engine and boiler fittings	Engines holding down bolts			
Completion of pumping arrangements	Boilers fixed	Engines tried under steam				
Main boiler safety valves adjusted	Thickness of adjusting washers					
Material of Crank shaft	Identification Mark on	Material of Thrust shaft	Identification Mark on			
Material of Tunnel shafts	Identification Marks on	Material of Screw shafts	Identification Marks on			
Material of Steam Pipes		Test pressure				

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 40 of the Rules been complied with.

Is this machinery duplicate of a previous case? ☐ If so, state name of vessel

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

The machinery of this vessel has been made in accordance with the plans and drawings. ^{material} The machinery has been taken in special, arrangement bags.

The engine has been forwarded to Salt River and will be placed in the vessel at that Port.

The vessel is in my opinion eligible to be received in the North Park + L. M. C. with Note, where the cost of the machinery as before has been fitted in place and you are verified, engine has been taken under the

The Surveyors at Annetstown have been advised
2/3 of the Survey fee has been charged at this Port.

The amount of Entry Fee

Special

Donkey Boiler Fee

Travelling Expenses (if any) £

When applied for.

When received.

Engineer-Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute

FRI. JUN. - 2. 1916

Assigned

See minute Book 10040



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Foundation