

# REPORT ON MACHINERY.

No. 11408  
SAT. SEP. 11 1920

Received at London Office

Date of writing Report 2-8-1920 When handed in at Local Office 10 Port of Rotterdam  
Date, First Survey 4<sup>th</sup> of June Last Survey 11<sup>th</sup> of Aug 1920  
(Number of Visits 4)

Survey held at Hardinxveld on the **HELL SERVO HEAMER, ABELIA**  
Tons } Gross  
          } Net  
When built

Engines made at Amsterdam By whom made **Vusehine & Co Scheep- & Mach. Fab.** when made 1920

Boilers made at Rotterdam By whom made **Wiltons Eng. & Ship Co** when made 1920

Registered Horse Power Owners **Ugo Persson & Co** Port belonging to **Landskrona**  
Nom. Horse Power as per Section 28 Is Refrigerating Machinery fitted for cargo purposes **No** Is Electric Light fitted **No**

ENGINES, &c.—Description of Engines **See Amsterdam report 8077** No. of Cylinders No. of Cranks

Dia. of Cylinders Length of Stroke Revs. per minute Dia. of Screw shaft as per rule as fitted Material of screw shaft  
Is the after end of the liner made water tight  
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 as fitted Dia. of Crank shaft journals as per rule as fitted Dia. of Crank pin Size of Crank webs Dia. of thrust shaft under covers  
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  
Engine Room 1 2 2 In Holds, &c. 1 2 2

No. of Bilge Injections sizes 3 2 2 Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size 1 2 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  
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  
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 No tunnel As it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record) Manufacturers of Steel **See separate Boiler report.**

Total Heating Surface of Boilers Is Forced Draft fitted **No** No. and Description of Boilers **One single end Marine**  
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 2 sprung loaded Area of each valve 4.9 sq Pressure to which they are adjusted 180 lb Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork **18"** 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

Percentage 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 bottom

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

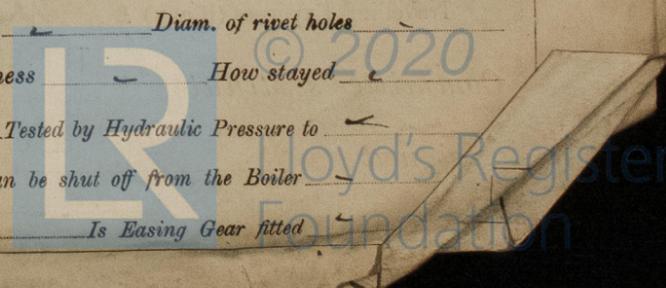
Material of stays Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space:  
Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays  
Area at smallest part Area supported by each stay Working pressure by rules 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

1800-555500-074500



IS A DONKEY BOILER FITTED? *Yes*

If so, is a report now forwarded? *Yes*

SPARE GEAR. State the articles supplied:—

*Refused and found as per Amsterdamer report.*

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops -- } 1920 June 4, 25 July 22, 30 Aug 6, 9, 11.  
{ During erection on board vessel --- }  
Total No. of visits *4*

Is the approved plan of main boiler forwarded herewith *Yes*

" " " donkey " " " *Yes*

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 *6-9-20* Engine and boiler seatings *4-6-20* Engines holding down bolts *29-7-*

Completion of pumping arrangements *30-7-20* Boilers fixed *22-7-20* Engines tried under steam *30-7-20*

Completion of fitting sea connections *4-6-20* Stern tube *4-6-20* Screw shaft and propeller *4-6-20*

Main boiler safety valves adjusted *22-7-20* Thickness of adjusting washers *P. 14m dlo SB 16 mill.*

Material of Crank shaft *Steel* Identification Mark on Do. *Lloyds 64503 JBS. 25.520* Material of Thrust shaft *Steel* Identification Mark on Do. *Lloyds 64503 JBS. 25.520*

Material of Tunnel shafts  Identification Marks on Do.  Material of Screw shafts *Steel* Identification Marks on Do. *Lloyds 64503 JBS. 25.520*

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.

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 Society's Rules, Secretary's letters and approved plan material tested as required and workmanship good the whole found in a good working condition when tried under full working condition. I am of opinion that this vessel is eligible to be recorded in the Society Register Book with **\*LMC 9-20.***

*8. See above*

*It is submitted that this vessel is eligible for THE RECORD. + LMC. 8.20*

*Roll 16/9/20*

The amount of Entry Fee ... £ *24.00* When applied for, *3/9 1920*  
Special ... £ *66.60*  
Donkey Boiler Fee ... £ : : When received, : :  
Travelling Expenses (if any) £ *41.00* 19

Committee's Minute

Assigned

TUE. SEP. 21 1920

*\* LMC 8.20*

*J. J. DeWoo*  
Engineer Surveyor to Lloyd's Register of Shipping.



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Certificate (if required) to be sent to Amsterdamer Survey Co

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