

REPORT ON MACHINERY.

No. 11408

SAT. SEP. 11 1920

Date of writing Report 2-8-1920 When handed in at Local Office

Port of Rotterdam

Place in Survey held at

Hardinxveld

Date, First Survey 4<sup>th</sup> of June

Last Survey 11<sup>th</sup> of Aug 1920

on the H.M. Sloop Heamer, ABELIA

Master

Built at Hardinxveld By whom built Scheepw. De Oeverwede

Tons { Gross Net When built

Engines made at Amsterdam By whom made Vasehune & Co. Scheepw. & Mach. Fab. when made 1920

Boilers made at Rotterdam By whom made Wilton's Eng. & Shipw. Co. when made 1920

Registered Horse Power Owners Hugo 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 of 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 screw shaft fitted with a continuous liner the whole length of the stern tube Is the after end of the liner made water tight

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

boilers 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

bolts 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 3 2 1 1/2 In Holds, &c. 1 2 1 1/2

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

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 ft Pressure to which they are adjusted 100 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

Percentages 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

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



IS A DONKEY BOILER FITTED?

Yes

If so, is a report now forwarded?

Yes

SPARE GEAR. State the articles supplied:-

report.

Refused and found as per Amsterdam

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

1920 June 4. 21 July 22. 30 Aug 6. 9. 11.

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 29-7-20

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. 14 mm 5 B 16 mm

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 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 ... £ : :  
Travelling Expenses (if any) £ 41.00 When received, 19

Committee's Minute

Assigned

TUE. SEP. 21 1920

\* LMC 8.20

Engineer Surveyor to Lloyd's Register of Shipping.

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