

REPORT ON MACHINERY.

FRI. 4 NOV 1915

Registered at London Office

Date of writing Report *5th November 1915* When handed in at Local Office *5th November 1915* Port of *Göteborg*No. in Survey held at *Lödöse & Göteborg* Date, First Survey *30th June 1914* Last Survey *6th October 1915*Reg. Book *on the* *Steel S.S. "Siri"* (Number of Plates *24*)Master *J. Nilsson* Built at *Lödöse* By whom built *Abel & Lödöse Varf* When built *1915*Engines made at *Lödöse* By whom made *Abel & Lödöse Varf* when made *1915*Boilers made at *Lödöse* By whom made *Abel & Lödöse Varf* when made *1915*Registered Horse Power *✓* Owners *Abel & Lödöse Varf* Port belonging to *Göteborg*Nom. Horse Power as per Section 28 *30* Is Refrigerating Machinery fitted for cargo purposes *No* Is Electric Light fitted *No*ENGINES, &c.—Description of Engines *Compound* No. of Cylinders *2* No. of Cranks *2*Dia. of Cylinders *12" x 27"* Length of Stroke *18"* Revs. per minute *119* Dia. of Screw shaft *as per rule 6 1/2"* Material of *Steel*the screw shaft fitted with a continuous liner the whole length of the stern tube *No liners fitted* the after end of the liner made water tightthe propeller boss *✓* If the liner is in more than one length are the joints burned *✓* If the liner does not fit tightly at the partbetween the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive *✓* If twoliners are fitted, is the shaft lapped or protected between the liners *5.36* Length of stern bush *24 1/2"*Dia. of Tunnel shaft *as per rule 5 1/4"* Dia. of Crank shaft journals *as per rule 5 3/4"* Dia. of Crank pin *5 3/4"* Size of Crank webs *6 1/2" x 3 1/2"* Dia. of thrust shaft underbars *5 3/4"* Dia. of screw *7 1/2"* Pitch of Screw *6'-6"* No. of Blades *4* State whether moveable *No* Total surface *16.80'*of Feed pumps *1* Diameter of ditto *2"* Stroke *7 1/4"* Can one be overhauled while the other is at work *✓*of Bilge pumps *1* Diameter of ditto *2"* Stroke *7 1/4"* Can one be overhauled while the other is at work *✓*of Donkey Engines *1* Sizes of Pumps *6" x 3" x 5 1/2"* No. and size of Suctions connected to both Bilge and Donkey pumpsEngine Room *One, 2"* In Holds, &c. *Two, 2" x 3"*of Bilge Injections *1* sizes *3 3/4"* Connected to condenser, or to circulating pump *Is a separate Donkey Suction fitted in Engine room & size Yes, 2"*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 *None*all connections with the sea direct on the skin of the ship *Yes* Are they Valves or Cocks *Both*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 *In the*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*at pipes are carried through the bunkers *None* How are they protected *✓*all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times *Yes*the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges *Yes*of examination of completion of fitting of Sea Connections *6/8/15* of Stern Tube *3/7/15* Screw shaft and Propeller *6/8/15*Screw Shaft Tunnel watertight *None fitted* Is it fitted with a watertight door *✓* worked from *✓*Boilers, &c.—(Letter for record *S*) Manufacturers of Steel *Gewerkschaft Agilla Finske*Heating Surface of Boilers *5220'* Is Forced Draft fitted *No* No. and Description of Boilers *One cylindrical multibular*Working Pressure *125 lbs per sq"* Tested by hydraulic pressure to *250 lbs per sq"* Date of test *6/8/15* No. of Certificate *73*each boiler be worked separately *✓* Area of fire grate in each boiler *230'* No. and Description of Safety Valves toboiler *2 spring loaded* Area of each valve *70'* Pressure to which they are adjusted *130 lbs per sq"* Are they fitted with easing gear *Yes*least distance between boilers or uptakes and bunkers *on woodwork 6"* Mean dia. of boilers *8'-10 1/2"* Length *8'-0"* Material of shell plates *Steel*Rings *2 1/2"* Range of tensile strength *45.7-44.5 lbs per sq"* Are the shell plates welded or flanged *No* Descrip. of riveting: cir. seams *None*seams *all riveted* Diameter of rivet holes in long. seams *7/8"* Pitch of rivets *3 5/8"* Lap of plates or width of butt straps *9 3/4"*Strengths of strength of longitudinal joint *75.1* Working pressure of shell by rules *133 lbs per sq"* Size of manhole in shell *16" x 12"*compensating ring *2'-2" x 3 1/2"* No. and Description of Furnaces in each boiler *2 corrugated* Material *Steel* Outside diameter *2'-10 1/2"*of plain part *top 7/16"* Thickness of plates *bottom 7/16"* Description of longitudinal joint *Welded* No. of strengthening rings *✓*Working pressure of furnace by the rules *182 lbs* Combustion chamber plates: Material *Steel* Thickness: Sides *9/16"* Back *9/16"* Top *9/16"* Bottom *9/16"*of stays to ditto: Sides *7" x 8 7/8"* Back *8" x 8"* Top *7" x 8 7/8"* If stays are fitted with nuts or riveted heads *Both* Working pressure by rules *127 lbs*Area of stays *Steel* Diameter at smallest part *1 5/8"* Area supported by each stay *640"* Working pressure by rules *26 lbs* End plates in steam spacesArea of stays *Steel* Thickness *3/4"* Pitch of stays *16" x 14"* How are stays secured *Stl. nut and washer* Working pressure by rules *140 lbs* Material of stays *Steel*Area at smallest part *2"* Area supported by each stay *2240"* Working pressure by rules *45 lbs* Material of Front plates at bottom *Steel*Material of Lower back plate *Steel* Thickness *3/4"* Greatest pitch of stays *as per plan* Working pressure of plate by rules *138 lbs*Pitch of tubes *3"* Pitch of tubes *4" x 4 1/4"* Material of tube plates *Steel* Thickness: Front *3/4"* Back *3/4"* Mean pitch of stays *12.8"*across wide water spaces *13"* Working pressures by rules *125 lbs* Girders to Chamber tops: Material *Steel* Depth andArea of girder at centre *2' x 4 1/2" x 3/4"* Length as per rule *1'-7 1/2"* Distance apart *8 7/8"* Number and pitch of stays in each *2'-2"*Working pressure by rules *136 lbs* Superheater or Steam chest; how connected to boiler *✓* Can the superheater be shut off and the boiler workedby *✓* Diameter *✓* Length *✓* Thickness of shell plates *✓* Material *✓* Description of longitudinal joint *✓* Diam. of rivetPitch of rivets *✓* Working pressure of shell by rules *✓* Diameter of flue *✓* Material of flue plates *✓* Thickness *✓*End 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 *✓*

W494-0264

IS A DONKEY BOILER FITTED? *No*

If so, is a report now forwarded? ☒

SPARE GEAR. State the articles supplied: *2 connecting rod top end bolts and nuts, 2 conn. rod bottom end bolts and nuts, 2 main bearing bolts, 1 set of coupling bolts, 1 set of feed and bilge pump valves, 1 set of piston springs, 1 check valve, a number of condenser tubes and boiler tubes, 1 propeller, a quantity of assorted bolts and nuts, iron of various sizes.*

The foregoing is a correct description,

FOR AKTIEBOLAGET LOOSE VARE

Carl Kallberg

Manufacturer.

Dates of Survey while building
During progress of work in shops - - *1914: June 30, July 8, Sept. 23, Nov. 19, Dec. 28, 31, 1915: Jan. 15, 30, Feb. 10, Apr. 19, June 9, 28, July 2, 1931, Aug. 6, 31.*
During erection on board vessel - - *July 31, Sept. 13, 16, 26, Oct. 16,*
Total No. of visits *24*

Is the approved plan of main boiler forwarded herewith ☒ Forwarded per commercial papers.

Dates of Examination of principal parts—Cylinders *19/11/14, 24/1/15* Slides *15/1/15* Covers *15/1/15* Pistons *15/1/15* Rods *15/1/15*
Connecting rods *15/1/15* Crank shaft *9/12/14* Thrust shaft *31/7/15* Tunnel shafts *31/7/15* Screw shaft *31/7/15* Propeller *31/7/15*
Stern tube *12/12/14* Steam pipes tested *9/6/15* Engine and boiler seatings *15/1, 20/2/15* Engines holding down bolts *20/2/15*
Completion of pumping arrangements *16/9/15* Boilers fixed *21/8/15* Engines tried under steam *26/9/15*
Main boiler safety valves adjusted *16/9/15* Thickness of adjusting washers *None fitted*
Material of Crank shaft *Steel* Identification Mark on Do. *31214 6/11/15* Material of Thrust shaft *Steel* Identification Mark on Do. *31215 6/11/15*
Material of Tunnel shafts *✓* Identification Marks on Do. *✓* Material of Screw shafts *Steel* Identification Marks on Do. *31216 6/11/15*
Material of Steam Pipes *Copper* Test pressure *250 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.)

This machinery has been built under the usual conditions of Special Survey, and all the requirements of the Rules have been complied with.

The boiler as per approved plan. The shafting as per forging reports attached.

The workmanship is good.

It is submitted that this vessel is eligible for THE RECORD + LMC 10.15

JRR

JWR

The machinery of this vessel is eligible in our opinion to be classed in the Register Book of this Society with the notation of LMC 10.15 being in a good and safe working condition at a working pressure of 125 lbs per sq. in.

The amount of Entry Fee ... £ Kr. 18.20 When applied for, *See Nov. 1915*
Special ... £ Kr. 145.60
Donkey Boiler Fee ... £
Travelling Expenses (if any) £

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

Committee's Minute *10.16 NOV. 1915*

Assigned *+ LMC 10.15*

FRI. 11 FEB. 1916

FRI. 1 DEC. 1916

THU. 28 MAR. 1918

FRI. 26 APR. 1918

TUE. 27 MAY. 1919

FRI. AUG. 30. 1918

MACHINERY CERTIFICATE

© 2020

Lloyd's Register Foundation