

LERS, &c.—(Letter for record **S**) Manufacturers of Steel *Stålsnäs Järnverks Aktief., Gefers*  
 ul Heating Surface of Boilers *9800* Is Forced Draft fitted No. and Description of Boilers *Two cylindrical, multitubular*  
 king Pressure *200 lbs./sq.* Tested by hydraulic pressure to *400 lbs./sq.* Date of tests *20/7/90 & 23/8/90* No. of Certificate *158 & 159*  
 each boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to  
 boiler Area of each valve Pressure to which they are adjusted Are they fitted with easing gear  
 Test distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers *12'-6"* Length *10'-2 3/16"* Material of shell plates *Steel*  
 kness *1 1/8"* Range of tensile strength *30.6 - 32.7* Are the shell plates welded or flanged *No* Descrip. of riveting: cir. seams *None*  
 seams *single riveted* Diameter of rivet holes in long. seams *1.14"* Pitch of rivets *7.72"* Lap of plates or width of butt straps *15 3/4"*  
 centages of strength of longitudinal joint rivets *87.4* Working pressure of shell by rules *200 lbs.* Size of manhole in shell *15 3/4" x 19 1/16"*  
 plates *85.2* No. and Description of Furnaces in each Boiler *Two corrugated* Material *Steel* Outside diameter *47 1/4"*  
 of compensating ring *29 1/2" x 33 1/2"* No. and Description of longitudinal joint *Welded* No. of strengthening rings  
 top Thickness of plates crown *5/8"* Description of longitudinal joint *Welded* No. of strengthening rings  
 bottom Thickness of plates bottom *5/8"* No. of strengthening rings  
 king pressure of furnace by the rules *213 lbs.* Combustion chamber plates: Material *Steel* Thickness: Sides *11.3/16"* Back *11.3/16"* Top *11.3/16"* Bottom *3/4"*  
 of stays to ditto: Sides *8 1/4" x 7 1/2"* Back *8 1/6" x 7 1/2"* Top *8 3/32" x 8 15/32"* How are stays fitted with nuts or riveted heads *Both* Working pressure by rules *205 lbs.*  
 rial of stays *Steel* Area Diameter at smallest part *1.79 sq.* Area supported by each stay *62. sq.* Working pressure by rules *260 lbs.* End plates in steam space  
 rial *Steel* Thickness *16.4/16"* Pitch of stays *16.93 x 16.93* How are stays secured *Double nuts and outside washers* Working pressure by rules *295 lbs.* Material of stays *Steel*  
 eter at smallest part *7.0 sq.* Area supported by each stay *287.0 sq.* Working pressure by rules *254 lbs.* Material of Front plates at bottom *Steel*  
 kness *15.2/16"* Material of Lower back plate *Steel* Thickness *7/8"* Greatest pitch of stays Working pressure of plate by rules  
 eter of tubes *3 1/4"* Pitch of tubes *4 3/8" x 4 1/2"* Material of tube plates *Steel* Thickness: Front *16.7/16"* Back *10.3/16"* Mean pitch of stays *8 7/8"*  
 h across wide water spaces *14 9/16"* Working pressures by rules *210 lbs.* Girders to Chamber tops: Material *Steel* Depth and  
 mess of girder at centre *2 (7 1/4" x 7/8")* Length as per rule *26 1/8"* Distance apart *8.1/4"* Number and pitch of stays in each *Two 8 15/32"*  
 king pressure by rules *258 lbs.* Steam dome: description of joint to shell % of strength of joint Diameter  
 ickness of shell plates Material Description of longitudinal joint Diameter of rivet holes Pitch of rivets  
 king pressure of shell by rules Crown plates: Thickness How stayed



Rpt. 13  
Port  
No. in  
Reg. Book  
78935  
Owners  
Yard No.  
DESCRIP  
1 Comp  
Driven  
Capacity  
Where i  
Position  
Position  
main s  
F: char  
If fuses  
circ  
If vessel  
Are the  
Are all  
are  
Are all  
Total nu  
A  
B  
C  
D  
E  
F { 2  
2  
1  
If are li  
Where a  
DESCRIP  
Main cab  
Branch c  
Branch c  
Leads to  
Cargo lig  
DESCRIP  
I The c  
II The  
Then to  
Joints in  
Are all th  
posit  
Are there  
How are  
by ir

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? \_\_\_\_\_ If so, is a report now forwarded? \_\_\_\_\_

SPARE GEAR. State the articles supplied:—

See Opn. Report No. \_\_\_\_\_

The foregoing is a correct description,

Jönköpings Mekaniska Verkstads AB

Manufacturer.

H. E. Moberg

Dates of Survey while building { During progress of work in shops -- 1919: Nov 3, Dec 14, 19, 1920 Jan 15, May 17, 17, July 9, Sept 3, 16.  
During erection on board vessel ---  
Total No. of visits 9

Jönköpings - plan appd. 8/12/19  
Is the approved plan of main boiler forwarded herewith?

Dates of Examination of principal parts—Casings 17/5/20 Rotors 17/5/20 Blading 20/1/20 Gearing 3/11/19, 20/7/20  
Rotor shaft Thrust shaft 3/11/19 Tunnel shafts Screw shaft Propeller  
Stern tube Steam pipes tested Engine and boiler seatings Engines holding down bolts  
Completion of pumping arrangements Boilers fixed Engines tried under steam in shop 4/9/20  
Main boiler safety valves adjusted Thickness of adjusting washers  
Material and tensile strength of Rotor shaft L.M. Steel, Special 45.7-46.2 tons per sq. inch Identification Mark on Do. LLOYD'S NO 4178-79 17.11.19. I.H.K.  
Material and tensile strength of Pinion shaft Nickel Steel 48.0-48.3 tons per sq. inch Identification Mark on Do. LLOYD'S NO 8606-07 3.11.19. V.B.  
Material of Wheel shaft Steel Identification Mark on Do. LLOYD'S NO 5102-03 3.11.19. V.B.  
Material of Thrust shaft Identification Mark on Do. LLOYD'S NO 84 3.11.19. V.B.  
Material of Tunnel shafts Identification Marks on Do. Material of Screw shafts Identification Marks on Do.  
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 49 of the Rules been complied with

Is this machinery a 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 special survey and all the requirements of the Rules have been complied with.  
The shafting as per forging reports which will be forwarded in a few days time.  
The boilers as per approved plan.  
The workmanship is good. Engines tested under steam in shop.

The machinery of this vessel is eligible in my opinion to be classed in the Register Book of this Society with the notation of \* L MC 9, 20 being in a good and safe working condition at a working pressure of 200 lb per square inch, when installed in the vessel.

The amount of Entry Fee ... £ 54.60  
Special ... £ 450.00  
Donkey Boiler Fee ... £  
Travelling Expenses (if any) ... £ 204.00  
Committee's Minute FRI. 22 APR. 1921

Engineer Surveyor to Lloyd's Register of Shipping.

TUE. SEP. 20 1921

FRI. 24 FEB. 1922 TUE. APR. 4 1922