

Rpt. 4.

## REPORT ON MACHINERY.

No. 4207

WED. 16 JUL. 1919

Received at London Office

Date of writing Report 8<sup>th</sup> July 1919. When handed in at Local Office 10<sup>th</sup> July 1919. Port of Göteborg  
No. in Survey held at Göteborg Date, First Survey 12<sup>th</sup> April 1917 Last Survey 14<sup>th</sup> June 1919  
Reg. Book. on the Steel S.S. "Ovidia" (Number of Visits 6)

Master A. G. Nordlund Built at Göteborg By whom built Lindholmen Verktads AB Tons { Gross 4107  
Engines made at Göteborg By whom made Lindholmen Verktads AB when made 1919 Net 2537  
Boilers made at Göteborg By whom made Lindholmen Verktads AB when made 1919  
Registered Horse Power 389 Owners Adriatic Transatlantic Port belonging to Göteborg  
Nom. Horse Power as per Section 28 389 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple expansion steam No. of Cylinders 3 No. of Cranks 3  
Dia. of Cylinders 26", 42" & 69" Length of Stroke 45" Revs. per minute 72 Dia. of Screw shaft 15 1/2" Material of Steel  
Is the screw shaft fitted with a continuous liner the whole length of the stern tube No Is the after end of the liner made water tight  
in the propeller boss Yes If the liner is in more than one length are the joints burned Yes 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 Yes If two  
liners are fitted, is the shaft lapped or protected between the liners Cement Length of stern bush 6'-10"  
Dia. of Tunnel shaft 12 1/2" Dia. of Crank shaft journals 13 1/4" Dia. of Crank pin 14 1/2" Size of Crank webs 16" x 8 1/2" Dia. of thrust shaft under  
collars 13 3/4" Dia. of screw 18'-6" Pitch of Screw 1 1/4'-0" No. of Blades 4 State whether moveable No Total surface 91 sq. feet  
No. of Feed pumps 2 Diameter of ditto 4" Stroke 22" Can one be overhauled while the other is at work Yes  
No. of Bilge pumps 2 Diameter of ditto 3" Stroke 22" Can one be overhauled while the other is at work Yes  
No. of Donkey Engines 3 Sizes of Pumps 7 1/2" x 5" x 7", 7 1/2" x 5" x 7", 9" x 12" x 10" No. and size of Suctions connected to both Bilge and Donkey pumps  
In Engine Room Two 3 1/2" In Holds, &c. No 1 hold: Two 3 1/2" No 2 hold: Two 3 1/2"  
No. of Bilge Injections 1 size 8 1/2" Connected to condenser, or to circulating pump Yes a separate Donkey Suction fitted in Engine room & size Yes 3 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 Yes  
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  
What pipes are carried through the bunkers None How are they protected Yes  
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 Yes Is it fitted with a watertight door Yes worked from Rearing engine platform

BOILERS, &c.—(Letter for record S) Manufacturers of Steel Rheinischen Stahlwerke, Werk III, Duisburg  
Total Heating Surface of Boilers 5205 sq. ft. Is Forced Draft fitted Yes No. and Description of Boilers Three, cylindrical, multibular  
Working Pressure 185 lbs. pr. sq. in. Tested by hydraulic pressure to 370 lbs. pr. sq. in. Date of test 4/11/18 No. of Certificates 131, 132, 133  
Can each boiler be worked separately Yes Area of fire grate in each boiler 40 sq. feet No. and Description of Safety Valves to  
each boiler 2 spring loaded Area of each valve 12.56 sq. in. Pressure to which they are adjusted 190 lbs. pr. sq. in. Are they fitted with easing gear Yes  
Smallest distance between boilers or uptakes and bunkers or woodwork 38" Mean dia. of boilers 12'-10 7/8" Length 11'-3" Material of shell plates Steel  
Thickness 1 1/2" Range of tensile strength 42-44 lbs. pr. sq. in. Are the shell plates welded or flanged No Descrip. of riveting: cir. seams None  
long. seams Double butt Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 8 7/8" Lap of plates or width of butt straps 20" x 12 1/2"  
Per centages of strength of longitudinal joint 83.46 Working pressure of shell by rules 189 lbs. Size of manhole in shell 12" x 16"  
Size of compensating ring 30" x 1 1/2" No. and Description of Furnaces in each boiler 3 corrugated Material Steel Outside diameter 36"  
Length of plain part top 1 1/2" bottom 1 1/2" Thickness of plates 1 1/2" Description of longitudinal joint Welded No. of strengthening rings 1  
Working pressure of furnace by the rules 209 lbs. Combustion chamber plates: Material Steel Thickness: Sides 1 1/16" Back 2 1/32" Top 1 1/16" Bottom 7/8"  
Pitch of stays to ditto: Sides 8 1/2" x 7 1/4" Back 7 3/4" x 7 1/2" Top 8" x 7 1/2" If stays are fitted with nuts or riveted heads Yes Working pressure by rules 190 lbs.  
Material of stays Steel Area at smallest part 1.48 sq. in. Area supported by each stay 58.1 sq. in. Working pressure by rules 192 lbs. End plates in steam space:  
Material Steel Thickness 1 1/16" Pitch of stays 16" x 18 1/2" How are stays secured Double nut and washers Working pressure by rules 193 lbs. Material of stays Steel  
Area at smallest part 6.07 sq. in. Area supported by each stay 296 sq. in. Working pressure by rules 211 lbs. Material of Front plates at bottom Steel  
Thickness 7/8" Material of Lower back plate Steel Thickness 2 1/2" Greatest pitch of stays 7 1/2" x 12 7/8" Working pressure of plate by rules 221 lbs.  
Diameter of tubes 3 1/4" Pitch of tubes 4 3/8" x 4 1/2" Material of tube plates Steel Thickness: Front 7/8" Back 1 1/16" Mean pitch of stays 11 3/8"  
Pitch across wide water spaces 13 3/4" Working pressures by rules 267 lbs. Girders to Chamber tops: Material Steel Depth and  
thickness of girder at centre 2 x (7 3/4" x 7 7/8") Length as per rule 38" Distance apart 9" Number and pitch of stays in each Two, 8"  
Working pressure by rules 189 lbs. Steam dome: description of joint to shell Yes % of strength of joint Yes  
Diameter 1 1/2" Thickness of shell plates Yes Material Yes Description of longitudinal joint Yes Diam. of rivet holes Yes  
Pitch of rivets Yes Working pressure of shell by rules Yes Crown plates Yes Thickness Yes How stayed Yes

SUPERHEATER. Type Schmidt's Date of Approval of Plan No plan submitted Tested by Hydraulic Pressure to 500 lbs.  
Date of Test 28<sup>th</sup> May 1918 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yes  
Diameter of Safety Valve 1 1/2" Pressure to which each is adjusted 190 lbs. pr. sq. in. Is Easing Gear fitted Yes

002401-002409-0019



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— 2 connecting rod top and bolts and nuts, 2 connecting rod bottom end bolts and nuts, 2 main bearing bolts, 1 set of coupling bolts, 1 set of feed and bilge pump valves, 1 propeller shaft, 1 air pump rod, 1 set of 4 piston rings, 1 metal shaft for circulating pump worm gear, 1 set of air pump valves, 1/2 set of valves for donkey feed pumps, 4 ordinary boiler tubes and 2 stay tubes, 10 condenser tubes, 30 condenser tube bushes, 1 set of safety valve springs, 1 spring for steam reduction valve to engines, a quantity of assorted bolts and nuts, iron of various sizes.

The foregoing is a correct description,

HOLMENS VERKSTADS AKTIEBOLAG

W. HOK

gen.

O. R. m. Linn

Manufacturer.

Dates of Survey while building  
During progress of work in shops -- 1917: Apr. 12, May 28, 30, Sept. 12, 19, 22, 24, Oct. 24, Dec. 18, 1918: Jan. 3, 12, 15, Feb. 18, 20, March 4, 27, Apr. 15, 18, 23, May 6, 16, June 4, July 10, 31, Aug. 28, Sept. 2, 4, 24, 26, Oct. 1, 2, 31, Nov. 4, Dec. 30, 1919: Jan. 18, 21, 28, 30, Feb. 5, 10, 24, 25, March 10, 24, Apr. 2, 15, May 10, 13, June 2, 4.  
During erection on board vessel -- 1919: Feb. 25, March 12, 20, 27, Apr. 4, 7, 8, 10, 28, 29, May 6, 12, 14, 17, 21, 28, June 3, 4, 5, 7, 17.  
Total No. of visits 66

Is the approved plan of main boiler forwarded herewith

Forwarded per Commercial papers post

Dates of Examination of principal parts—Cylinders 12/1, 15/1, 18/1, 19/1, 20/1, 21/1, 22/1, 23/1, 24/1, 25/1, 26/1, 27/1, 28/1, 29/1, 30/1, 31/1, 1/2, 2/2, 3/2, 4/2, 5/2, 6/2, 7/2, 8/2, 9/2, 10/2, 11/2, 12/2, 13/2, 14/2, 15/2, 16/2, 17/2, 18/2, 19/2, 20/2, 21/2, 22/2, 23/2, 24/2, 25/2, 26/2, 27/2, 28/2, 29/2, 30/2, 31/2, 1/3, 2/3, 3/3, 4/3, 5/3, 6/3, 7/3, 8/3, 9/3, 10/3, 11/3, 12/3, 13/3, 14/3, 15/3, 16/3, 17/3, 18/3, 19/3, 20/3, 21/3, 22/3, 23/3, 24/3, 25/3, 26/3, 27/3, 28/3, 29/3, 30/3, 31/3, 1/4, 2/4, 3/4, 4/4, 5/4, 6/4, 7/4, 8/4, 9/4, 10/4, 11/4, 12/4, 13/4, 14/4, 15/4, 16/4, 17/4, 18/4, 19/4, 20/4, 21/4, 22/4, 23/4, 24/4, 25/4, 26/4, 27/4, 28/4, 29/4, 30/4, 31/4, 1/5, 2/5, 3/5, 4/5, 5/5, 6/5, 7/5, 8/5, 9/5, 10/5, 11/5, 12/5, 13/5, 14/5, 15/5, 16/5, 17/5, 18/5, 19/5, 20/5, 21/5, 22/5, 23/5, 24/5, 25/5, 26/5, 27/5, 28/5, 29/5, 30/5, 31/5, 1/6, 2/6, 3/6, 4/6, 5/6, 6/6, 7/6, 8/6, 9/6, 10/6, 11/6, 12/6, 13/6, 14/6, 15/6, 16/6, 17/6, 18/6, 19/6, 20/6, 21/6, 22/6, 23/6, 24/6, 25/6, 26/6, 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