

# REPORT ON MACHINERY.

No. 11788

Port of Hamburg

Received at London Office

1910

No. in Survey held at Breslau + Hamburg Date, first Survey 14th August Last Survey 12th Decr. 1910

Book. on the Steel double L. Ferryboat "N: 11" (Number of Visits 10)

er Built at Breslau By whom built Caesar Wallheim Tons Gross 38 Net 9 When built 1910 12

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stered Horse Power 19 Owners Societe de Navigation a vapeur Port belonging to Constantinople

Horse Power as per Section 28 19 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

INES, &c.—Description of Engines Compound No. of Cylinders 2 No. of Cranks 2

of Cylinders 8 1/2 x 15 Length of Stroke 9 Revs. per minute 85 Dia. of Screw shaft 3 3/8 Material of screw shaft Steel

screw shaft fitted with a continuous liner the whole length of the stern tube no liner Is the after end of the liner made water tight

propeller boss no If the liner is in more than one length are the joints burned no If the liner does not fit tightly at the part

on the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive no If two

are fitted, is the shaft lapped or protected between the liners no Length of stern bush 13.75

of Tunnel shaft 3 3/8 Dia. of Crank shaft journals 3 3/8 Dia. of Crank pin 3 3/8 Size of Crank webs 2 x 4 1/8 Dia. of thrust shaft under

s 3 3/8 Dia. of screw 3 1/4 Pitch of Screw 4 1/4 No. of Blades 4 State whether moveable no Total surface 5.5 sq. ft.

f Feed pumps 1 Diameter of ditto 1 3/4 Stroke 4 3/8 Can one be overhauled while the other is at work no

f Bilge pumps 1 Diameter of ditto 1 3/4 Stroke 4 3/8 Can one be overhauled while the other is at work no

f Donkey Engines 1 Sizes of Pumps Dupl. dble. act. 1 1/4 dia. 3 str. No. and size of Suctions connected to both Bilge and Donkey pumps

ngine Room 3 off In Holds, &c. 2 off - 2

Bilge Injections 1 sizes 2 Connected to condenser, or to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size no

ll 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 no

ll connections with the sea direct on the skin of the ship yes Are they Valves or Cocks both

ey 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 yes

ey 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

pipes are carried through the bunkers no How are they protected no

ll Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes

ve 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 18/10. 10 of Stern Tube 18/10. 10 Screw shaft and Propeller 18/10. 10

Screw Shaft Tunnel watertight no Is it fitted with a watertight door no worked from no

ERS, &c.—(Letter for record S) Manufacturers of Steel Gewerkschaft Drillo, Funke + Co. Chemnitz-Idaer

Heating Surface of Boilers 430 sq. ft. Is Forced Draft fitted no No. and Description of Boilers 1 single ended multitubular

ing Pressure 170 lbs Tested by hydraulic pressure to 340 lbs Date of test 18/10. 10 No. of Certificate 133

ach boiler be worked separately no Area of fire grate in each boiler 13.5 sq. ft. No. and Description of Safety Valves to

oiler 2 Spring loaded Area of each valve 4.5 sq. ft. Pressure to which they are adjusted 175 lbs Are they fitted with easing gear yes

st distance between boilers or uptakes and bunkers or woodwork 8 Mean dia. of boilers 6 1/4 to 8 1/2 Length 8 1/2 Material of shell plates Steel

ess 56 Range of tensile strength 28-32 tons Are the shell plates welded or flanged no Descrip. of riveting: cir. seams by dble. riv.

seams dble. riv. quad. Diameter of rivet holes in long. seams 1.85 Pitch of rivets 11.18 Lap of plates or width of butt straps 19.12 x 15.5

antages of strength of longitudinal joint rivets 91.6% Working pressure of shell by rules 183.5 lbs Size of manhole in shell 15.75 x 11.75

compensating ring 6 x 1 No. and Description of Furnaces in each boiler 1 Morrison Material Steel Outside diameter 33.5

of plain part top 5 Thickness of plates crown 5 1/4 Description of longitudinal joint welded No. of strengthening rings none

ing pressure of furnace by the rules 225.5 Combustion chamber plates: Material Steel Thickness: Sides 6/16 Back 6/16 Top 6/16 Bottom 6/16

f stays to ditto: Sides 7.8 Back 6.3 x 7 Top 7.8 If stays are fitted with nuts or riveted heads nuts + rivets Working pressure by rules 204.1 lbs

al of stays Steel Diameter at smallest part 1.5 Area supported by each stay 49 sq. in. Working pressure by rules 289.0 lbs End plates in steam space:

al Steel Thickness 8 Pitch of stays 14 How are stays secured dble. nuts + riv. Working pressure by rules 180 lbs Material of stays Steel

er at smallest part 2.37 Area supported by each stay 196 sq. in. Working pressure by rules 133.4 lbs Material of Front plates at bottom Steel

ess 9 Material of lower back plate Steel Thickness 8 Greatest pitch of stays 9 Working pressure of plate by rules 490.9 lbs

er of tubes 3.4 Pitch of tubes 4.18 Material of tube plates Steel Thickness: Front 9 Back 8 Mean pitch of stays 8.3

across wide water spaces 2.3 Working pressures by rules 298.2 lbs Girders to Chamber tops: Material Steel Depth and

ss of girder at centre 5.5 x 1.6 Length as per rule 18.5 Distance apart 7 Number and pitch of stays in each one

ing pressure by rules 192.6 Superheater or Steam chest; how connected to boiler no Can the superheater be shut off and the boiler worked

ly no Diameter no Length no Thickness of shell plates no Material no Description of longitudinal joint no Diam. of rivet

no Pitch of rivets no Working pressure of shell by rules no Diameter of flue no Material of flue plates no Thickness no

ned with rings no Distance between rings no Working pressure by rules no End plates: Thickness no How stayed no

ing pressure of end plates no Area of safety valves to superheater no Are they fitted with easing gear no

VERTICAL DONKEY BOILER— Manufacturers of Steel *No Donkey Boiler fitted.*

No. \_\_\_\_\_ Description \_\_\_\_\_

Made at \_\_\_\_\_ By whom made \_\_\_\_\_ When made \_\_\_\_\_ Where fixed \_\_\_\_\_

Working pressure tested by hydraulic pressure to \_\_\_\_\_ Date of test \_\_\_\_\_ No. of Certificate \_\_\_\_\_ Fire grate area \_\_\_\_\_ Description of Safety \_\_\_\_\_

Valves \_\_\_\_\_ No. of Safety Valves \_\_\_\_\_ Area of each \_\_\_\_\_ Pressure to which they are adjusted \_\_\_\_\_ Date of adjustment \_\_\_\_\_

If fitted with easing gear \_\_\_\_\_ If steam from main boilers can enter the donkey boiler \_\_\_\_\_ Dia. of donkey boiler \_\_\_\_\_ Length \_\_\_\_\_

Material of shell plates \_\_\_\_\_ Thickness \_\_\_\_\_ Range of tensile strength \_\_\_\_\_ Descrip. of riveting long. seams \_\_\_\_\_

Dia. of rivet holes \_\_\_\_\_ Whether punched or drilled \_\_\_\_\_ Pitch of rivets \_\_\_\_\_ Lap of plating \_\_\_\_\_ Per centage of strength of joint \_\_\_\_\_ Rivets \_\_\_\_\_ Plates \_\_\_\_\_

Working pressure of shell by rules \_\_\_\_\_ Thickness of shell crown plates \_\_\_\_\_ Radius of do. \_\_\_\_\_ No. of stays to do. \_\_\_\_\_ Dia. of stays \_\_\_\_\_

Diameter of furnace Top \_\_\_\_\_ Bottom \_\_\_\_\_ Length of furnace \_\_\_\_\_ Thickness of furnace plates \_\_\_\_\_ Description of joint \_\_\_\_\_

Working pressure of furnace by rules \_\_\_\_\_ Thickness of furnace crown plates \_\_\_\_\_ Stayed by \_\_\_\_\_

Diameter of uptake \_\_\_\_\_ Thickness of uptake plates \_\_\_\_\_ Thickness of water tubes \_\_\_\_\_ Dates of survey \_\_\_\_\_

SPARE GEAR. State the articles supplied:— *2 Propellers, 2 connecting rod top end bolts & nuts, 2 connecting rod bottom end bolts & nuts, 2 main bearing bolts & nuts, 2 set of coupling bolts, 1 set feed pump valves, 1 set bilge pump valves, 1 set packing rings for each piston, 6 condenser tubes with 12 ferrules, 6 plain tubes for Boiler, 1 set fire bars, various bolts, nuts, iron bar & plates assorted.*

The foregoing is a correct description,  
ppa. Caesar Wollheim, Werft und Rhederei

Der Director: *M. B. ...* Manufacturer.

Dates of Survey while building	During progress of work in shops - -	<i>14/8, 19/8, 20/9, 18/10, 1/11, 19/10</i>	
		During erection on board vessel - -	<i>17/11, 5/12, 6/2, 9/12, &amp; 12/12, 19/10</i>
			Total No. of visits

Is the approved plan of main boiler forwarded herewith *yes*  
" " " donkey " " " "

Dates of Examination of principal parts—Cylinders	<i>20/9. 10</i>	Slides	<i>20/9. 10</i>	Covers	<i>20/9. 10</i>	Pistons	<i>18/10. 10</i>	Rods	<i>18/10. 10</i>
Connecting rods	<i>20/9. 10</i>	Crank shaft	<i>20/9. 10</i>	Thrust shaft	<i>18/10. 10</i>	Tunnel shafts	<i>1/11. 10</i>	Screw shaft	<i>1/11. 10</i>
Stern tube	<i>18/10. 10</i>	Steam pipes tested	<i>17/11. 10</i>	Engine and boiler seatings	<i>1/11. 10</i>	Engines holding down bolts	<i>17/11. 10</i>		
Completion of pumping arrangements	<i>17/11. 10</i>	Boilers fixed	<i>1/11. 10</i>	Engines tried under steam	<i>5/12. 10</i>				
Main boiler safety valves adjusted	<i>9/12. 10</i>	Thickness of adjusting washers	<i>Std. 13/32, Port 19/32</i>						
Material of Crank shaft	<i>Steel</i>	Identification Mark on Do.	<i>—</i>	Material of Thrust shaft	<i>Steel</i>	Identification Mark on Do.	<i>—</i>		
Material of Tunnel shafts	<i>Steel</i>	Identification Marks on Do.	<i>—</i>	Material of Screw shafts	<i>Steel</i>	Identification Marks on Do.	<i>—</i>		
Material of Steam Pipes	<i>Copper</i>			Test pressure	<i>340 lbs.</i>				

General Remarks (State quality of workmanship, opinions as to class, &c. *The Material used workmanship of these Engines and Boiler are of very good description, the outfit is adequate for the intended trade as Ferry boat.*

*The Material has been tested by the Surveyors to the Society as prescribed by the rules and has been made at Steelworks approved by the Committee.*

*I attended a satisfactory trial trip on the 5<sup>th</sup> December 1910.*

*The hulling of this vessel, having been constructed under Special Survey in accordance with the Rules, I beg to recommend that this vessel be classed and **L.M.C. 12.10** be recorded against her name in the Register Book and a Certificate be issued.*

The amount of Entry Fee.	<i>£. 21.</i>	When applied for,	
Special	<i>£. 336.</i>	<i>19/12. 19. 10</i>	
Donkey Boiler Fee	£ :	When received,	
Travelling Expenses (if any)	£ :	<i>20/12. 19. 10</i>	

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

Committee's Minute  
Assigned

TUE. 10 JAN 1911

*+ L.M.C. 12.10*

MACHINERY CERTIFICATE  
WRITTEN 9.11



Certificate (if required) to be sent to Machinery Office

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