

Port of Gallunenburg

Received at London Office MON. 3 SEP 1906

06

No. in Survey held at Lodose and GallunenburgDate, first Survey 25<sup>th</sup> Nov 1905 Last Survey 31<sup>st</sup> August 1906(Number of Visits 13)27 on the Shul SS "Beda"

Gross 218

Tons Net 110

When built 1906

Master A. G. MellinBuilt at LodoseBy whom built Ahlhölzel Lodose VarfEngines made at LodoseBy whom made Ahlhölzel Lodose Varf

when made 1906

Boilers made at LodoseBy whom made Ahlhölzel Lodose Varf

when made 1906

Registered Horse Power

Owners Kedrichhölzel "Uda"Port belonging to GallunenburgNom. Horse Power as per Section 28 20Is Refrigerating Machinery fitted for cargo purposes noIs Electric Light fitted noENGINES, &c.—Description of Engines vertical compoundNo. of Cylinders 2No. of Cranks 2Dia. of Cylinders 10" 2 2 1/2"Length of Stroke 15"Revs. per minute 130Dia. of Screw shaft 5 1/2"as per rule 5 1/2"Material of screw shaft steelIs 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 yesIf 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~~liners are fitted~~, is the shaft lapped or protected between the liners Cedermessel pat. prod. box fitted Length of stern bush 4' 6"Dia. of Tunnel shaft 4 1/2"Dia. of Crank shaft journals 4 1/2"as per rule 4 1/2"Dia. of Crank pin 4 1/2"Size of Crank webs 5 1/4" x 3"

Dia. of thrust shaft under

collars 4 1/2"Dia. of screw 6' 6"Pitch of Screw 7' 6"No. of Blades 4State whether moveable yesTotal surface 13 1/2'No. of Feed pumps 1Diameter of ditto 1 1/2"Stroke 7"Can one be overhauled while the other is at work yesNo. of Bilge pumps 1Diameter of ditto 1 1/2"Stroke 7"Can one be overhauled while the other is at work yesNo. of Donkey Engines 1Sizes of Pumps 1 1/2" x 2 1/4" x 4" Worthington

No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room One 2"In Holds, &c. One 2"No. of Bilge Injections One sizes 3 3/4"Connected to condenser, or to circulating pump yesIs a separate Donkey Suction fitted in Engine room & size yes - 2"Are all the bilge suction pipes fitted with roses yesAre the roses in Engine room always accessible yesAre the sluices on Engine room bulkheads always accessible now fittedAre all connections with the sea direct on the skin of the ship yesAre they Valves or Cocks bothAre they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yesAre the Discharge Pipes above or below the deep water line aboveAre they each fitted with a Discharge Valve always accessible on the plating of the vessel yesAre the Blow Off Cocks fitted with a spigot and brass covering plate yesWhat pipes are carried through the bunkers noneHow are they protected yesAre all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yesAre the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yesDates of examination of completion of fitting of Sea Connections 26/7/06of Stern Tube 26/7/06Screw shaft and Propeller 26/7/06Is the Screw Shaft Tunnel watertight now fittedIs it fitted with a watertight door yesworked from yesBOILERS, &c.—(Letter for record S) Manufacturers of Steel Blechnalwerke Schney Krauss, Essen Ruhr.Total Heating Surface of Boilers 363 1/2'Is Forced Draft fitted noNo. and Description of Boilers One cylindrical multitubularWorking Pressure 12 1/2 lbs per sq. in.Tested by hydraulic pressure to 24 1/2 lbs per sq. in.Date of test 19<sup>th</sup> July 1906No. of Certificate 29Can each boiler be worked separately yesArea of fire grate in each boiler 12 1/2'

No. and Description of Safety Valves to

each boiler 2 Spring loadedArea of each valve 7 1/2"Pressure to which they are adjusted 12 1/2 lbs per sq. in.Are they fitted with easing gear yesSmallest distance between boilers or uptakes and bunkers or woodwork 8"Mean dia. of boilers 7' 7 1/2"Length 7' 4 1/2"Material of shell plates steelThickness 1 1/2"Range of tensile strength 43.2 kg per sq. cm.Are the shell plates welded or flanged noDescrip. of riveting: cir. seams nonelong. seams all shapes all rivetsDiameter of rivet holes in long. seams 1 1/16"Pitch of rivets 3 3/8"Lap of plates or width of butt straps 7 3/4"

Per centages of strength of longitudinal joint

rivets 77Working pressure of shell by rules 13 1/2 lbs per sq. in.Size of manhole in shell 11" x 16"Size of compensating ring 4" x 1 1/2"No. and Description of Furnaces in each boiler One corrugatedMaterial steel Outside diameter 37 1/4"Length of plain part 62"Thickness of plates 1 1/16"Description of longitudinal joint weldedNo. of strengthening rings yesWorking pressure of furnace by the rules 16 1/2 lbs per sq. in.Combustion chamber plates: Material steel Thickness: Sides 1/2" Back 1/2" Top 1/2" Bottom 1/2"Pitch of stays to ditto: Sides 7' x 7 1/2"Back 7' x 7"Top 7' x 7 1/4"If stays are fitted with nuts or riveted heads riveted headsWorking pressure by rules 12 1/2 lbs per sq. in.Material of stays steelDiameter at smallest part 1 1/8"Area supported by each stay 52.5 sq. in.Working pressure by rules 15 1/2 lbs

End plates in steam space:

Material steelThickness 1 1/16"Pitch of stays 15" x 12 1/2"How are stays secured all rivetsWorking pressure by rules 14 1/2 lbsMaterial of stays steelDiameter at smallest part 2"Area supported by each stay 188 sq. in.Working pressure by rules 16 1/2 lbsMaterial of Front plates at bottom steelThickness 1 1/16"Material of Lower back plate steelThickness 1 1/16"Greatest pitch of stays as per rule

Working pressure of plate by rules

Diameter of tubes 3 1/8"Pitch of tubes 4 1/4" x 4 1/4"Material of tube plates steelThickness: Front 1 1/16"Back 1 1/16"Mean pitch of stays 11 1/2"Pitch across wide water spaces 11"Working pressures by rules 18 lbs per sq. in.Girders to Chamber tops: Material steel

Depth and

thickness of girder at centre 6 1/2" x 1"Length as per rule 18"Distance apart 7"Number and pitch of stays in each One - 7 1/2"Working pressure by rules 24 lbsSuperheater or Steam chest; how connected to boiler now fitted

Can the superheater be shut off and the boiler worked

separately yesDiameter yesLength yesThickness of shell plates yesMaterial yesDescription of longitudinal joint yes

Diam. of rivet

holes yesPitch of rivets yesWorking pressure of shell by rules yesDiameter of flue yesMaterial of flue plates yesThickness yesIf stiffened with rings yesDistance between rings yesWorking pressure by rules yesEnd plates: Thickness yesHow stayed yesWorking pressure of end plates yesArea of safety valves to superheater yesAre they fitted with easing gear yes



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:— One pair of main bearing bolts with nuts, one pair of bottom end bolts with nuts, one pair of top end bolts with nuts, one set of coupling bolts with nuts. One set of piston springs. One set of feed and bilge pump valves. Iron of various size. Bolts and nuts of various sizes. One propeller.

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - 25<sup>th</sup> Nov 1905, 22<sup>nd</sup>, 28<sup>th</sup> Feb, 17<sup>th</sup>, 22<sup>nd</sup> March, 23<sup>rd</sup> April, 7<sup>th</sup>, 21<sup>st</sup> May, 18<sup>th</sup> June 1906.  
During erection on board vessel - - 19<sup>th</sup>, 26<sup>th</sup> July, 22<sup>nd</sup>, 31<sup>st</sup> August 1906.  
Total No. of visits 13

Is the approved plan of main boiler forwarded herewith ☒ No, per Commercial

Dates of Examination of principal parts—Cylinders 27/11/05, 17/3, 23/4, 18/6/06. Slides 7/5/06. Covers 7/5/06. Pistons 7/5/06. Rods 7/5/06.  
Connecting rods 7/5/06. Crank shaft 28/12/06. Thrust shaft 23/18/06. Tunnel shafts ✓ Screw shaft 28/23/4, 18/6/06. Propeller 7/5/06.  
Stern tube 18/6/06. Steam pipes tested 19/7/06. Engine and boiler seatings 18/6/06. 24/7/06. Engines holding down bolts 22/8/06.  
Completion of pumping arrangements 22/8/06. Boilers fixed 22/8/06. Engines tried under steam 22/8/06.  
Main boiler safety valves adjusted 31<sup>st</sup> August 06. Thickness of adjusting washers no washers fitted, nuts securely fixed. Length 22/103  
Material of Crank shaft Steel Identification Mark on Do. 18.6.06 V.C.B. Material of Thrust shaft Steel Identification Mark on Do. 18.6.06 V.C.B. Length 22/105  
Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts Steel Identification Marks on Do. 18.6.06 V.C.B.  
Material of Steam Pipes Copper Test pressure 240 lbs per sq. in.

General Remarks (State quality of workmanship, opinions as to class, &c.)

This machinery has been constructed under the usual conditions of Survey. The cylinders with valve casings, condenser, steam pipes, feed pipes, feed pumps and boiler mountings have been tested with water pressure. The Forgings as per report attached.

The boiler has been built in accordance with the approved plan forwarded to London per commercial papers post of material manufactured at a works approved by the Committee. The boiler material has been tested as required by the rules.

The workmanship is good and the engines have been tried under steam and found working satisfactory.

The machinery of this vessel is in a good and safe working condition at a working pressure of 120 lbs per sq. in. and eligible in my opinion to be classed in the Register Book of this Society with the notation of + LMC 8.06.

Boiler pressure 120 lbs per sq. in.

The amount of Entry Fee..	£ 1 : 0 :	When applied for,
Special .. .. .	£ 8 : 0 :	23 <sup>rd</sup> Aug. 1906
Donkey Boiler Fee .. .	£ :	When received,
Travelling Expenses (if any) £	:	24 <sup>th</sup> Aug. 1906

TUES. 11 SEP 1906

Committee's Minute

Assigned

It is submitted that  
this vessel is eligible for  
THE RECORD LMC 8.06

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



Lloyd's Register  
Foundation

MACHINERY CERTIFICATE  
WRITTEN.