

REPORT ON MACHINERY.

No. 11790

Port of

Hamburg

Received at London Office

19

No. in Survey held at Breslau + Hamburg Date, first Survey 14th Aug. Last Survey 14th Dec 1910

Reg. Book.

on the Steel double sc Ferryboat "No 13"

(Number of Visits 10)

Master Built at Breslau By whom built Caesar Wollheim

Tons { Gross 38
Net 9

When built 1910 12

Engines made at Breslau By whom made Caesar Wollheim

when made 1910

Boilers made at Breslau By whom made Caesar Wollheim

when made 1910

Registered Horse Power 19

Owners Societe de Navigation à vapeur Port belonging to Constantinople

Nom. Horse Power as per Section 28 19

Is Refrigerating Machinery fitted for cargo purposes no

Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Compound

No. of Cylinders 2

No. of Cranks 2

Dia. of Cylinders 8 1/2 x 15 1/2

Length of Stroke 9 1/2

Revs. per minute 85

Dia. of Screw shaft

as per rule 3 7/16

Material of

Steel

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

in the propeller boss If the liner is in more than one length are the joints burned 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 If two

liners are fitted, is the shaft lapped or protected between the liners Length of stern bush 13.75

Dia. of Tunnel shaft as per rule 3 3/8

Dia. of Crank shaft journals as per rule 3 1/2

Dia. of Crank pin 3 3/8

Size of Crank webs 2 x 4 1/8

Dia. of thrust shaft under

collars 3 3/8

Dia. of screw 3 1/2

Pitch of Screw 4 1/2

No. of Blades 4

State whether moveable no

Total surface 5.529 sq. ft.

No. of Feed pumps 1

Diameter of ditto 1 3/4

Stroke 4 3/8

Can one be overhauled while the other is at work

No. of Bilge pumps 1

Diameter of ditto 1 3/4

Stroke 4 3/8

Can one be overhauled while the other is at work

No. of Donkey Engines 1

Sizes of Pumps Dupl. dbl. act. 1 3/4 dia + 3 1/4

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

In Engine Room 3

In Holds, &c. 2 off - 2

No. of Bilge Injections 1

sizes 2

Connected to condenser, or to circulating pump yes

Is a separate Donkey Suction fitted in Engine room & size no

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 none

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 yes

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.

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

Dates 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

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

BOILERS, &c.—(Letter for record S) Manufacturers of Steel Genverkschaft Grillo, Funke & Co, Gelsenk. Schalker

Total Heating Surface of Boilers 225.549 sq. ft. Is Forced Draft fitted no No. and Description of Boilers 1 Single ended multitubular

Working Pressure 170 lbs

Tested by hydraulic pressure to 240 lbs

Date of test 1/11 10

No. of Certificate 135

Can each boiler be worked separately

Area of fire grate in each boiler 13.5 sq. ft.

No. and Description of Safety Valves to

each boiler 2 Spring loaded

Area of each valve 4.5 sq. in

Pressure to which they are adjusted 175 lbs

Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork 8 1/2

Mean dia. of boilers 6 1/2

Length 8 1/2

Material of shell plates Steel

Thickness 5/16

Range of tensile strength 28-32 tons

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams lap. dbl. riv.

long. seams dbl. butt. 4 riv.

Diameter of rivet holes in long. seams 8 1/2

Pitch of rivets 1 1/8

Lap of plates or width of butt straps 19.12 x 5.5

Per centages of strength of longitudinal joint rivets 91.6%

plate 92.2%

Working pressure of shell by rules 183.5 lbs

Size of manhole in shell 15.75 x 11.75

Size of compensating ring 6 1/2 x 1 1/2

No. and Description of Furnaces in each boiler 1 Morrison's

Material Steel

Outside diameter 33.5

Length of plain part top 5 1/2

Thickness of plates crown 5 1/2

Description of longitudinal joint welded

No. of strengthening rings none

Working pressure of furnace by the rules 225.5 lbs

Combustion chamber plates: Material Steel

Thickness: Sides 6/16

Back 6/16

Top 6/16

Bottom 6/16

Pitch of stays to ditto: Sides 7.8

Back 6.3 x 7

Top 7.8

If stays are fitted with nuts or riveted heads nuts & rivet head

Working pressure by rules 204.1 lbs

Material of stays Steel

Diameter at smallest part 1.5

Area supported by each stay 49.29

Working pressure by rules 289.0

End plates in steam space:

Material Steel

Thickness 8

Pitch of stays 14

How are stays secured dbl. nut & wash

Working pressure by rules 180 lbs

Material of stays Steel

Diameter at smallest part 1.37

Area supported by each stay 196.29

Working pressure by rules 233.4

Material of Front plates at bottom Steel

Thickness 9

Material of Bottom back plate Steel

Thickness 8

Greatest pitch of stays 9

Working pressure of plate by rules 490.9

Diameter of tubes 3.4

Pitch of tubes 4.12

Material of tube plates Steel

Thickness: Front 9

Back 8

Mean pitch of stays 8.3

Pitch across wide water spaces 8.3

Working pressures by rules 298.2 lbs

Girders to Chamber tops: Material Steel

Depth and

thickness 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 1

Working pressure by rules 192.6

Superheater or Steam chest; how connected to boiler

Can the superheater be shut off and the boiler worked

separately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

holes

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

If stiffened 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

Foundation

VERTICAL DONKEY BOILER—

Manufacturers of Steel

No. 1000000 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 _____
 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 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, and plates as wanted.*

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

Der Director: *Albrecht* Manufacturer.

Dates of Survey while building
 During progress of work in shops— *14/8, 19/8, 20/9, 18/10, 1/11, 19/10*
 During erection on board vessel— *17/11, 5/12, 6/12, 9/12, 12/12, 19/10*
 Total No. of visits *10*

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

Dates of Examination of principal parts—Cylinders *20/9/10* Slides *20/9/10* Covers *20/9/10* Pistons *18/10/10* Rods *18/10/10*
 Connecting rods *20/9/10* Crank shaft *20/9/10* Thrust shaft *18/10/10* Tunnel shafts *1/11/10* Screw shaft *1/11/10* Propeller *1/11/10*
 Stern tube *18/10/10* Steam pipes tested *17/11/10* Engine and boiler seatings *1/11/10* Engines holding down bolts *17/11/10*
 Completion of pumping arrangements *17/11/10* Boilers fixed *1/11/10* Engines tried under steam *9/12/10*
 Main boiler safety valves adjusted *9/12/10* Thickness of adjusting washers *Std. 23/32", Port 19/32"*
 Material of Crank shaft *Steel* Identification Mark on Do. *—* Material of Thrust shaft *Steel* Identification Mark on Do. *—*
 Material of Tunnel shafts *Steel* Identification Marks on Do. *—* Material of Screw shafts *Steel* Identification Marks on Do. *—*
 Material of Steam Pipes *Copper* Test pressure *340 lbs.*

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

The Material has been tested by the Surveyors to this Society as prescribed by the Rules, and has been manufactured at works approved by the Committee.

I attended a satisfactory trial trip on the 9th December 1910.

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

The amount of Entry Fee... *£. 21.-* When applied for, *15/12/10*
 Special ... *£. 306.-*
 Donkey Boiler Fee ... *£* : :
 Travelling Expenses (if any) *£* : : *20/12/10*

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

Committee's Minute

Assigned

TUE. 10 JAN 1911

+ L.M.C. 12.10.



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Certificate (if required) to be sent to
 The Surveyors are requested not to write on, or below the space for Committee's Minute.