

REPORT ON MACHINERY.

WED. 19 APR 1911.

No. 4962

MON. 6 FEB 1911

Port of

Genoa

Received at London Office

19

No. in Survey held at
eg. Book.Date, first Survey Nov 14th 1910 Last Survey Dec 2nd 1911

(Number of Visits 3)

n of Say on the

Gross 120 approx

Tons Net

When built 1911

aster

Built at Regensburg

By whom built Christof Puthof

Engines made at

By whom made

Actengesellschaft der Maschinenfabriken Escher Wyss & Co

when made

1911

Boilers made at

By whom made

JG

when made

1911

Registered Horse Power

24

Owners

The Golden Horn Steam Ship Co

Port belonging to

Constantinople

om. Horse Power as per Section 28

24

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

Yes

GINES, &c.—Description of Engines

Compound

No. of Cylinders 2

No. of Cranks 2

Dia. of Cylinders

11.02 x 18.9

Length of Stroke

11.81

Revs. per minute

240

Dia. of Screw shaft

as per rule 4.4

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

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

Yes. Gutter Packer sleeve

Length of stern bush

19.68

Dia. of Tunnel shaft

as per rule 4.19

Dia. of Crank shaft journals

as per rule 4.4

Dia. of Crank pin

4.4

Size of Crank webs

5 1/2 x 2 1/2

Dia. of thrust shaft under

Collars

4.4

Dia. of screw

47.24

Pitch of Screw

x 55.9

No. of Blades

4

State whether moveable

No

Total surface

5.49

No. of Feed pumps

One

Diameter of ditto

2.16

Stroke

4

Can one be overhauled while the other is at work

No. of Bilge pumps

One

Diameter of ditto

2.16

Stroke

4

Can one be overhauled while the other is at work

No. of Donkey Engines

one

Sizes of Pumps

3" in diameter

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

In Engine Room

one 2"

In Holds, &c.

Fore hold one 2". After hold one 2".

No. of Bilge Injections

One

sizes

2 1/2"

Connected to condenser, or to circulating pump

Yes

Is a separate Donkey Suction fitted in Engine room & size

Yes 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

None

Are all connections with the sea direct on the skin of the ship

Yes

Are they Valves or Cocks

Cocks

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

of Stern Tube

Screw shaft and Propeller

Is the Screw Shaft Tunnel watertight

buckhead

Yes

Is it fitted with a watertight door

Yes

worked from

OILERS, &c.—(Letter for record

S)

Manufacturers of Steel

Thyssen & Co. Baseler Röhren Eisenwerk

Total Heating Surface of Boilers

650 sq ft

Is Forced Draft fitted

Yes

No. and Description of Boilers

One horizontal multitubular

Working Pressure

150 lbs

Tested by hydraulic pressure to

300 lbs

Date of test

23.11.10

No. of Certificate

89

Can each boiler be worked separately

Area of fire grate in each boiler

20.1 sq ft

No. and Description of Safety Valves to

each boiler

2 Spring

Area of each valve

5.1 sq in

Pressure to which they are adjusted

Are they fitted with easing gear

Yes

Smallest distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

80.4

Length

110.25

Material of shell plates

steel

Thickness

not less than 5/8"

Range of tensile strength

25.4

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

Double

long. seams

triple inside

Diameter of rivet holes in long. seams

4/8"

Pitch of rivets

28.5 x 5.78

Lap of plates or

width of butt straps

9.21 x 13.78

Per centages of strength of longitudinal joint

rivets 84.1

plate 84.1

Working pressure of shell by rules

161

Size of manhole in shell

16 1/2 x 12 1/2

Size of compensating ring

5.03 x 4.85

No. and Description of Furnaces in each boiler

One longitudinal

Material

steel

Outside diameter

37.4

Length of plain part

top 6.8"

Thickness of plates

crown 4.4"

bottom 4.4"

Description of longitudinal joint

welded

No. of strengthening rings

9

Working pressure of furnace by the rules

170.5

Combustion chamber plates: Material

steel

Thickness: Sides

1/2"

Back

1/2"

Top

1/2"

Pitch of stays to ditto: Sides

6 x 6

Back

6 x 6

Top

6 x 6

If stays are fitted with nuts or riveted heads

Riv heads

Working pressure by rules

177.5

Material of stays

steel

Diameter at smallest part

1 1/8"

Area supported by each stay

36 sq in

Working pressure by rules

192

End plates in steam space:

Material

steel

Thickness

3/32"

Pitch of stays

17.5 x 8.5

How are stays secured

thin washers

Working pressure by rules

150

Material of stays

steel

Diameter at smallest part

2 1/4"

Area supported by each stay

180 sq in

Working pressure by rules

176.25

Material of Front plates at bottom

steel

Thickness

3/32"

Material of Lower back plate

steel

Thickness

1/32"

Greatest pitch of stays

6 x 6

Working pressure of plate by rules

250

Diameter of tubes

2 3/4"

Pitch of tubes

3.58 x 3.38

Material of tube plates

steel

Thickness: Front

3/32"

Back

3/32"

Mean pitch of stays

9 3/8"

Pitch across wide water spaces

None

Working pressures by rules

248 lbs

Girders to Chamber tops: Material

steel

Depth and

thickness of girder at centre

4.72 x 1/10"

Working pressure by rules

200

Superheater or Steam chest; how connected to boiler

No

Can the superheater be shut off and the boiler worked

separately

No

Diameter

35.5

Length

35.5

Thickness of shell plates

3/32"

Material

steel

Description of longitudinal joint

welded

Diam. of rivet

holes

None

Pitch of rivets

Working pressure of shell by rules

150

Diameter of flue

None

If stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

1/2"

How stayed

No stays

Working pressure of end plates

150

Area of safety valves to superheater

Working pressure by rules

End plates: Thickness

1/2"

How stayed

No stays

Working pressure of end plates

150

Area of safety valves to superheater

Working pressure by rules

End plates: Thickness

1/2"

S.P. 401

Report No 4

VERTICAL DONKEY BOILER—

Manufacturers of Steel

No. _____ Description None

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 Safe _____

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 Bottom end bolts & nuts. Top end bolts are not fitted in this engine. 2 Main bearing bolts & nuts. One set of coupling bolts & nuts for shaft, and for flywheel coupling. One set of feed and bilge pump valves. Two common piston springs are fitted in this engine. Assorted bolts and nuts, and iron of various sizes.

The foregoing is a correct description,

Manufacturer.

Aktiengesellschaft der Maschinenfabriken
ESCHER WYSS & CO

Dates of Survey while building

During progress of work in shops - -

During erection on board vessel - -

Total No. of visits

1910. Nov 14. 23. Dec 2.

S.

Is the approved plan of main boiler forwarded herewith

Yes

Dates of Examination of principal parts—Cylinders Nov 23 Slides Nov 23 Covers Nov 23 Pistons Nov 23 Rods Nov 23

Connecting rods Nov 23 Crank shaft Nov 23 Thrust shaft Nov 23 Tunnel shafts Nov 23 Screw shaft Nov 23 Propeller Nov 23

Stern tube Nov 23 Steam pipes tested ✓ Engine and boiler seatings ✓ Engines holding down bolts ✓

Completion of pumping arrangements ✓ Boilers fixed ✓ Engines tried under steam ✓

Main boiler safety valves adjusted ✓ Thickness of adjusting washers ✓

Material of Crank shaft steel Identification Mark on Do. LLOYDS 5001.2.3 4 5.6.7 Material of Thrust shaft steel Identification Mark on Do. as stated

Material of Tunnel shafts steel Identification Marks on Do. LLOYDS 5001.2.3 4 5.6.7.8 Material of Screw shafts steel Identification Marks on Do. as stated

Material of Steam Pipes _____ Test pressure _____

General Remarks (State quality of workmanship, opinions as to class, &c. The machinery of this vessel has been

examined under construction with a view to being classed + LMC with date, and the materials and workmanship are good. The boiler has been seen completed with fittings attached, at the works of the makers, and tested to a hydraulic pressure and found satisfactory. The following mark has been stamped on the front.

2089
Registered
500000
MR. 23.11.10

The engines have been examined in detail & when last seen were erected in the works of the maker, ready for shipment to Regensburg, where the following remains to be done - viz:

The machinery to be seen fitted on board, the main steam pipe to be tested by water pressure, the pumping arrangements to be verified with the approved plan. The spare gear to be checked, the engines to be seen running under steam, and the safety valves to be adjusted under steam to the working pressure of 150 lbs sq. It is understood that this will be done at Regensburg, and when satisfactorily completed, the vessel's machinery will be eligible in my opinion to have the notation of + LMC with date in the Register Book.

2.00 of this fee £3 to be added to the above, see letter dated Jan 4th 1911

The amount of Entry Fee: £ 25.30 : When applied for, Feb 1st 1911

Special £ 202.40 : 9/2/11

Donkey Boiler Fee £ 113.60 : When received, 9/2/11

Travelling Expenses (if any) £ 341.30 : 9/2/11

Francis Piton

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

Committee's Minute

THU 13 APR 1911

WED 7 JUN 1911

Assigned

See Minute on

Tri Rpt 2641



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Foundation