

## REPORT ON MACHINERY.

No. 1256A

Received at London Office SAT 4 FEB. 1922

Date of writing Report

2-2-22

When handed in at Local Office

2-2-22

Port of Nantes

No. in Survey held at

Nantes

Date, First Survey 12-2-1920

Last Survey 16<sup>th</sup> March 1922

Reg. Book

36835 on the Single Screw Steamer "CAPITAINE WINCKLER"

(Number of Vessels)

Gross 2017.54

Net 1194.31

Master

Built at Nantes

By whom built M<sup>r</sup>. Ch. Dubigeon

When built 1921

Engines made at

Nantes

By whom made

A.C. de la Loire

No. 431

when made 1921

Boilers made at

do.

By whom made

do.

when made

do.

Registered Horse Power

Owners

French Government

Port belonging to

Nantes

Nom. Horse Power as per Section 28

193

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

Yes

ENGINES, &amp;c. Description of Engines

Triple exp. surf. cond.

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders

460, 760, 1250

Length of Stroke

960

Revs. per minute

82

Dia. of Screw shaft

as per rule 223  
as fitted 288

Material of screw shaft

F.I.S.

Is the screw shaft fitted with a continuous liner the whole length of the stern tube

Yes

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

good fit

liners are fitted, is the shaft lapped or protected between the liners

Yes

Length of stern bush

1 m. 170

Dia. of Tunnel shaft

as per rule 243  
as fitted 240

Dia. of Crank shaft journals

as per rule 255  
as fitted 256

Dia. of Crank pin

256

Size of Crank webs

165

Dia. of thrust shaft under

collars

256

Dia. of screw

4 m. 26

Pitch of Screw

4 m. 00

No. of Blades

4

State whether moveable

No

Total surface

5 m<sup>2</sup> 72

No. of Feed pumps

2

Diameter of ditto

65

Stroke

480

Can one be overhauled while the other is at work

Yes

No. of Bilge pumps

2

Diameter of ditto

65

Stroke

480

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

4

Sizes of Pumps

Ans. Feed 140 x 90 x 185  
Ballast 150 x 240 x 240  
Service 100 x 100 x 110

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

In Engine Room

3 2 70 &amp; 1 direct to service pump 80

In Holds, &amp;c. fore 2 2 70 - after 2 2 65 - 4 one

No. of Bilge Injections

1

size

155

Connected to condenser, or to circulating pump

pump

Is a separate Donkey Suction fitted in Engine room &amp; size

Yes, 80

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

Air pipes to tanks

How are they protected

wood covered

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

19-8-21

of Stern Tube

19-8-21

Screw shaft and Propeller

19-8-21

Is the Screw Shaft Tunnel watertight

Yes

Is it fitted with a watertight door

Yes

worked from

main deck

BOILERS, &amp;c. (Letter for record S)

3240

Manufacturers of Steel Supplied by the State, probably made in U.S.A.

Total Heating Surface of Boilers

30 m<sup>2</sup> 20

Is Forced Draft fitted

No

No. and Description of Boilers

2 Single Scotch S P

Working Pressure

13 Kilos.

Tested by hydraulic pressure to

23 Kilos.

Date of test

16-9-21

No. of Certificate

59 &amp; 60

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

4 m<sup>2</sup> 40 = 47.4

No. and Description of Safety Valves to

each boiler

2 Cookburn propen.

Area of each valve

282 1/2 m<sup>2</sup>

Pressure to which they are adjusted

13 Kg.

Are they fitted with easing gear

Yes

Smallest distance between boilers or uptakes and bunkers or woodwork

8" at strap

Mean dia. of boilers

4 m. 00

Length

3 m. 175

Material of shell plates

Steel

Thickness

31

Range of tensile strength

42-50 K.

Are the shell plates welded or flanged

No

Descrip. of riveting

end seams double

long. seams

Feb. D.S.

Diameter of rivet holes in long. seams

33

Pitch of rivets

2 1/6 25

Lap of plates or width of butt straps

454

Per centages of strength of longitudinal joint

rivets 94.87  
plate 84.74

Working pressure of shell by rules

14 1/2 600

Size of manhole in shell

450 x 350

Size of compensating ring

854 x 754

No. and Description of Furnaces in each boiler

2 Morrison

Material

Steel

Outside diameter

1250

Length of plain part

top bottom

Thickness of plates

crown 16  
bottom 16

Description of longitudinal joint

welded

No. of strengthening rings

Yes

Working pressure of furnace by the rules

14 1/2 500

Combustion chamber plates: Material

Steel

Pitch of stays to ditto

Sides 195 x 190

Back

191.5 x 184

Top

190 x 190

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

15 1/2 750

Material of stays

Steel

Diameter at smallest part

34

Area supported by each stay

3 1/2 500 m<sup>2</sup>

Working pressure by rules

13 1/2 75

Material

Steel

Thickness

2 1/2 5

Pitch of stays

380 x 470

How are stays secured

DN &amp; W.

Working pressure by rules

13 1/2 75

Material of stays

Steel

Diameter at smallest part

67

Area supported by each stay

178600 m<sup>2</sup>

Working pressure by rules

14 1/2 4

Material of Front plates at bottom

Steel

Thickness

25

Material of Lower back plate

Steel

Thickness

25

Greatest pitch of stays

380 x 365

Working pressure of plate by rules

14 1/2 2

Diameter of tubes

89 ext.

Pitch of tubes

120 x 120

Material of tube plates

Steel

Thickness: Front

25

Back

20

Mean pitch of stays

240

Pitch across wide water spaces

360

Working pressures by rules

13 1/2 8

Girders to Chamber tops: Material

Steel

thickness of girder at centre

225 x 2 x 20

Length as per rule

24.5

Distance apart

190

Number and pitch of stays in each

3 2 190

Working pressure by rules

20 1/2 7

Superheater or Steam chest; how connected to boiler

Yes

Can the superheater be shut off and the boiler worked

separately

Yes

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

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

Yes

Area of safety valves to superheater

Yes

Are they fitted with easing gear

Yes

Working pressure of



# VERTICAL DONKEY BOILER—

Manufacturers of Steel

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	Radius of do.	Stayed by		
Diameter of uptake	Thickness of uptake plates	Thickness of water tubes	Dates of survey		

SPARE GEAR. State the articles supplied:—propellor, 1P, MP & LP piston rings, 1 bottom end with 2 bolts, 2 top end crasses with 2 bolts, 1 set (6) coupling bolts, 2 main bearing bolts  
*For completion of spare gear see his letter of 17/3/22.*

The foregoing is a correct description,

Manufacturer.

DIRECTEUR

*Stammy*



Dates of Survey while building	During progress of work in shops	During erection on board vessel	Total No. of visits
1920. Feb. 12. Mar. 29. Apr. 7-23-27. May 7-17-27. June 2-7-11-14-28-30. July 8-12-27-28. Sept. 20-29. Oct. 1-19. Nov. 5-16-25. Dec. 4-11-18.	1920. Jan. 5-17-25. Feb. 10-17-23. Mar. 11-17-21-25-29. Apr. 4-7-9-11-13-16-19-20-21-25. May 3-26. June 10-17. July 11-27. Aug. 6-	1921. Sept. 8-28. Oct. 11-19-26. Nov. 3-10-25. Dec. 7-9-22. 1922. Jan. 4-6	

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

Dates of Examination of principal parts—Cylinders	25-10-20	Slides	25-10-20	Covers	7-4-21	Pistons	17-3-21	Rods	17-3-21
Connecting rods	1-3-21	Crank shaft	5-1-21	Thrust shaft	23-12-20	Tunnel shafts	2-3-21	Screw shaft	2-3-21
Stern tube	19-8-21	Steam pipes tested	26-10-21	Engine and boiler seatings	19-8-21	Engines holding down bolts	9-12-21		
Completion of pumping arrangements	16-3-22	Boilers fixed	11-10-21	Engines tried under steam	16-3-22				
Main boiler safety valves adjusted	16-3-22	Thickness of adjusting washers	P. ap. 9.5 mm P. for 9.5 mm S. ap. 8.2 S. for 9.0						
Material of Crank shaft	F.I.S.	Identification Mark on Do.	107	Material of Thrust shaft	F.I.S.	Identification Mark on Do.	107		
Material of Tunnel shafts	F.I.S.	Identification Marks on Do.	107	Material of Screw shafts	F.I.S.	Identification Marks on Do.	107		
Material of Steam Pipes	Solid drawn steel	Test pressure	39 kilos.						

General Remarks (State quality of workmanship, opinions as to class, &c. These engines & boilers have been built in accordance with the approved plans, & in number, & otherwise with the Rules & the Secretary's Letters, of satisfactory workmanship and material. I am of the opinion that, having been surveyed specially during their construction, they will, upon completion, be eligible for the record + LMC. The engine is fitted with surface condenser, steam reversing gear, and with air circulating feed & barge pumps worked from the HP crosshead; also with steam ash troist, auxiliary condenser, Watson's evaporator & pump, auxiliary feed pump, ballast pump & service pump.

This engine is a duplicate of nos. 421-3-56-32 Nantes Reports nos. 1167-1171-1180-1218-1221—*Capitaine Illiaquer*

Please see accompanying letter—

for self and E. le Seven

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

The amount of Entry Fee	When applied for.
Special .. ..	1042
Donkey Boiler Fee .. ..	70
Travelling Expenses (if any)	70
Committee's Minute	20/2/22
Assigned	20/2/22



© 2020

Lloyd's Register Foundation