

REPORT ON MACHINERY.

No. 1218

Date of writing Report

28-6-21

When handed in at Local Office

28-6-21

Received at London Office

THU. 30 JUN. 1921

No. in Survey held at

Nantes

Date, First Survey

12-2-20

Last Survey

13.7.21

1921

Reg. Book.

8281 on the S.S. "CAPITAINE ILLIAQUER"

(Number of Voids)

59

Gross

2017.54

Net

1194.31

Master Le Gallo

Built at Nantes-Chantenay

By whom built

Anc. Ch. Dubigeon

When built

1920-1

Engines made at Nantes

By whom made

A. & C. de la Loire, Nantes

when made

1920

Boilers made at Nantes & Indret

By whom made

do. & Indret Arsenal

when made

1921

Registered Horse Power

Owners

French Government

Port belonging to

Nantes

Nom. Horse Power as per Section 28

193.187

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

yes

ENGINES, &c.

Description of Engines

Triple exp. surf. cond.

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders

460/60-1250

Length of Stroke

960

Revs. per minute

88

Dia. of Screw shaft

as per rule 293

Material of

F.I. St.

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

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

ford fit

if two

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

yes

Length of stern bush

1 in. 1/2

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

400x165

Dia. of thrust shaft under

collars

256

Dia. of screw

4 in. 260

Pitch of Screw

4 in. 00

No. of Blades

4

State whether moveable

no

Total surface

5 m² 7/2

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

140x90x185 ang. fd.

150x240x240

100x100x110

Service

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

In Engine Room 3 1/2 70 in.

One in well 70 in.

No. of Bilge Injections

1

sizes

155

Connected to condenser, or to circulating pump

pump

Is a separate Donkey Suction fitted in Engine room & size

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

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

hank air pipes

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

24-11-20

of Stern Tube

22-11-20

Screw shaft and Propeller

24-11-20

Is the Screw Shaft Tunnel watertight

yes

Is it fitted with a watertight door

yes

worked from

main deck

BOILERS, &c. (Letter for record

S)

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

Total Heating Surface of Boilers

301 m² 80

Is Forced Draft fitted

no

No. and Description of Boilers

2 Simple-end Scotch

Working Pressure

13 kilos.

Tested by hydraulic pressure to

23 kilos.

Date of test

23-3-21

No. of Certificate

57458

Can each boiler be worked separately

yes

Area of fire grate in each boiler

4 m² 40

No. and Description of Safety Valves to

each boiler

2 Lockhart progress

Area of each valve

280 in² 2

Smallest distance between boilers or uptakes and bunkers or woodwork

8 at strap

Mean dia. of boilers

4 m. 00

Length

3 m. 1/5

Material of shell plates

Steel

Thickness

31

Range of tensile strength

42-50

Are the shell plates welded or flanged

no

Descrip. of riveting: cir.

seams

double

long. seams

hebble, D.S.

Diameter of rivet holes in long. seams

33

Pitch of rivets

216.25

Lap of plates or width of butt straps

454

Per centages of strength of longitudinal joint

rivets 94.84

plate 84.74

Working pressure of shell by rules

13 k. 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

Cir. 9

No.

Working pressure of furnace by the rules

13 k. 13

Combustion chamber plates: Material

Steel

Thickness: Sides

15.5

Back

15.5

Top

15.5

Bottom

Pitch of stays to ditto: Sides

195 x 190

Back

195 x 184

Top

190 x 190

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

15 k. 7

Material of stays

Steel

Diameter at smallest part

34

Area supported by each stay

37000

Working pressure by rules

14 k. 2

End plates in steam space:

Material

Steel

Thickness

24.5

Pitch of stays

470 x 380

How are stays secured

2 R. & W.

Working pressure by rules

13 k. 4

Material of stays

Steel

Diameter at smallest part

67

Area supported by each stay

178600

Working pressure by rules

14 k. 6

Material of Front plates at bottom

Steel

Thickness

25

Material of Lower back plate

Steel

Thickness

25

Greatest pitch of stays

480 dia

Working pressure of plate by rules

18 k. 2

Diameter of tubes

89

Pitch of tubes

120 x 120

Material of tube plates

Steel

Pitch across wide water spaces

2360

Working pressures by rules

15 k. 2

Girders to Chamber tops: Material

Steel

Depth and

thickness of girder at centre

2 x 225 x 90

Length as per rule

24.5

Working pressure by rules

21 k.

Superheater or Steam chest; how connected to boiler

yes

Can the superheater be shut off and the boiler worked

separately

yes

Diameter

yes

Length

yes

Thickness of shell plates

yes

Material

yes

Description of longitudinal joint

yes

Diam. of rivet

holes

yes

Pitch of rivets

yes

Working pressure of shell by rules

yes

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 casing 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:— 2 top ends (one with bolts) —
 1 bottom end complete with bolts — 2 main bearing bolts —
 1 set 6 coupling bolts — 8 feed & crepe pump valves — 2 HP, 2 MP &
 2 BP piston rings — 1 propeller — 39 condenser tubes — Spring 0 100 1

The foregoing is a correct description,

Manufacturer.

Stammy

Dates of Survey while building

During progress of work in shops -- 1920 Feb. 26 - Mar. 29 Apr. 23-27 May 7-17-27 June 14

During erection on board vessel -- Sept. 14-1-29 Oct. 1-7-12-15-20-29 Nov. 5-16-22-26

Total No. of visits 1920 Jan. 5-25 Feb. 3-4 Mar. 29 Apr. 23 May 2-26 June 25-27-28

Is the approved plan July 4. 7. 8. 13. Total 59

Dates of Examination of principal parts—Cylinders 14-15-10-20 Slides 15-20-10-20 Covers 15-20-10-20

Connecting rods 25-11-20 Crank shaft 29-10-20 Thrust shaft 13-8-20 Tunnel shafts 13-8-20

Stern tube 22-11-20 Steam pipes tested 10-6-21 Engine and boiler seatings 21-10-20

Completion of pumping arrangements Boilers fixed 2-5-21

Main boiler safety valves adjusted 27-11-21 Thickness of adjusting washers S.B.A.

Material of Crank shaft F.I.S. Identification Mark on Do. 95 Material of Thrust shaft F.I.S.

Material of Tunnel shafts F.I.S. Identification Marks on Do. 95 Material of Screw shafts F.I.S.

Material of Steam Pipes Solid drawn Steel Test pressure 3

General Remarks (State quality of workmanship, opinions as to class, &c. The material of these engines and boilers are satisfactory in accordance with the approved plan otherwise with the Rules and Secretary. I am of the opinion that they are eligible + LMC in the Register Book having been Special Surveyed during their construction. This engine is surface-condensing with circulating & crepe pumps worked from the HP crosshead. A horizontal Watson's evaporator with pump, a separate bar service pump & auxiliary feed pump. Steam reversing. This engine is a duplicate of nos. 421-3-5 - Nantes 1167, 1171 and 1180.

The amount of Entry Fee .. £ 3 : 0 : When applied for, Special .. £ 48 : 5 : 1-7-21-1921

Donkey Boiler Fee .. £ : : When received, Travelling Expenses (if any) £ 70 francs 7-7-21-1921

Committee's Minute

Assigned

TUE JUL 5 1921

+ Ld. 6. 7. 21

G. Demarest for self,
 G. A. Lamy & C. le Seven
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

FRI JUL 22 1921

as now subject

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