

REPORT ON MACHINERY.

No. 712

Received at London Office MAY 14 1914

Port of Nantes

Date, First Survey 16-1-13 Last Survey

Survey held at St. Nazaire

on the

Built at Rouen

By whom built

made at St. Nazaire

By whom made

Chantiers de l'Atlantique

when made

1914

made at

do

By whom made

do

when made

1914

Horse Power

Owners

Port belonging to

Horse Power as per Section 28

542

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

VES, &c.

Description of Engines

Triple expansion

No. of Cylinders

3

No. of Cranks

3

Cylinders

690-1130-1900

Length of Stroke

1295

Revs. per minute

100

Dia. of Screw shaft

380

as fitted

380

Material of screw shaft

F.I. Steel

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

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

the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

Yes

If two

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

Yes

Length of stern bush

600

65

Tunnel shaft

as per rule

355

Dia. of Crank shaft journals

as per rule

373

as fitted

373

Dia. of Crank pin

380

Size of Crank webs

241.5

Dia. of thrust shaft under

s

Dia. of screw

373

Pitch of Screw

4.33

Stroke

685

Can one be overhauled while the other is at work

Yes

Feed pumps

2

Diameter of ditto

110

Stroke

685

Can one be overhauled while the other is at work

Yes

Bilge pumps

2

Diameter of ditto

114

Stroke

685

Can one be overhauled while the other is at work

Yes

Donkey Engines

Sizes of Pumps

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

In Holds, &c.

Bilge Injections

sizes

Connected to condenser, or to circulating pump

Is a separate Donkey Suction fitted in Engine room & size

all the bilge suction pipes fitted with roses

Are the roses in Engine room always accessible

Are the sluices on Engine room bulkheads always accessible

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

Are they Valves or Cocks

they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

Are the Discharge Pipes above or below the deep water line

they each fitted with a Discharge Valve always accessible on the plating of the vessel

Are the Blow Off Cocks fitted with a spigot and brass covering plate

at pipes are carried through the bunkers

How are they protected

the Pipes, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges

ates of examination of completion of fitting of Sea Connections

of Stern Tube

Screw shaft and Propeller

the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

ILERS, &c. (Letter for record (S.))

Manufacturers of Steel

Krupp-Henschel & Sohn Usines Metall. Basse Loire

total Heating Surface of Boilers

900

Is Forced Draft fitted

no

No. and Description of Boilers

4 Single end circular

Working Pressure

13.3 kilo

Tested by hydraulic pressure to

23.3 kilo

Date of test

14-11-13

21-11-13

Nos of Certificate

3738

3940

can each boiler be worked separately

Area of fire grate in each boiler

6.66

No. and Description of Safety Valves to

each boiler

Progressive escape

Area of each valve

65

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

5m 008

Length

3m 600

Material of shell plates

Steel

Thickness

29

Range of tensile strength

52-54

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

Double

long. seams

Keble

Diameter of rivet holes in long. seams

30

Pitch of rivets

89

Lap of plates or width of butt straps

444

Per centages of strength of longitudinal joint

89

Working pressure of shell by rules

13.4

Size of manhole in shell

400x300

Material

Steel

Outside diameter

1m 300

Size of compensating ring

900x800

No. and Description of Furnaces in each boiler

3 corrugated

Material

Steel

No. of strengthening rings

none

Length of plain part

top

bottom

Thickness of plates

15.5

Description of longitudinal joint

none

Thickness: Sides

14.5

Back

14.5

Top

14.5

Bottom

20

Working pressure of furnace by the rules

13.4

Combustion chamber plates: Material

Steel

Pitch of stays to ditto

Sides

180

Back

180

Top

180

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

14.7

End plates in steam space

Material of stays

Steel

Diameter at smallest part

36

Area supported by each stay

32400

Working pressure by rules

14.7

Material of stays

Steel

Material

Steel

Thickness

25

Pitch of stays

365x350

How are stays secured

nuts in front

Working pressure by rules

20.8

Material of Front plates at bottom

Steel

Diameter at smallest part

68

Area supported by each stay

127500

Working pressure by rules

20.8

Material of Front plates at bottom

Steel

Thickness

23

Material of Lower back plate

Steel

Thickness

22

Greatest pitch of stays

180x180

Working pressure of plate by rules

36.2

Mean pitch of stays

332x336

Diameter of tubes

68

Pitch of tubes

116x113

Material of tube plates

Steel

Thickness: Front

25

Back

21

Mean pitch of stays

332x336

Pitch across wide water spaces

350

Working pressures by rules

13.4

Girders to Chamber tops: Material

Steel

Depth and

thickness of girder at centre

2x161x31.5

Length as per rule

808

Distance apart

180

Number and pitch of stays in each

30/180

Working pressure by rules

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
 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:—

LE DIRECTEUR
 DES CHANTIERS DE L'ATLANTIQUE

Plan

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building
 During progress of work in shops - - - 1913 Jan. 16 Mar. 17 Apr. 17-26 May 15 June 4-10-16 July 22 Aug. 1-19-25 Sept. 5-9-18-23 Oct. 3
 During erection on board vessel - - - 3-10-16-21-27 Nov. 3-14-21-28 Dec. 10-19-27 Jan. 7-14-20-24-31 Feb. 11-20-27 Mar. 4-12-18-26-30
 Total No. of visits (Apr. 3-10-15-24 - May 1)

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

Dates of Examination of principal parts—Cylinders 19-8-13 etc Slides 3-2-14 etc Covers 10-4-14 etc
 Connecting rods 12-3-14 etc Crank shaft 20-2-14 etc Thrust shaft 27-2-14 Tunnel shafts
 Stern tube Steam pipes tested 1-5-14 Engine and boiler seatings
 Completion of pumping arrangements Boilers fixed Engine
 Main boiler safety valves adjusted Thickness of adjusting washers
 Material of Crank shaft F. I. S. Identification Mark on Do. 157-2-3 Material of Thrust shaft F. I. S.
 Material of Tunnel shafts F. I. S. Identification Marks on Do. Material of Screw shafts F. I. S.
 Material of Steam Pipes Steel with rivetted flanges. Test pressure 40

General Remarks (State quality of workmanship, opinions as to class, &c. These eng. built under Special Survey in accordance with the Plans. The material & workmanship are satisfactory. Therefore, of the opinion, that the machinery is of the notation **LMC** in the Register. All parts subject to pressure, including all cylinders, valves, condenser, feed heater, pump chambers, indicator cocks, expansion joints, air vessels, etc. all boiler mountings, including gauge columns, holders, scum, brine & blow down cocks; feed etc. have been hydraulic-tested to pressure 2 to 28 kilos. per cm^2 . This machinery is to be fitted on board.

The amount of Entry Fee **£ 15.75** When applied for.
 Special **£ 1187.00** 2 Mar. 1914
 Donkey Boiler Fee **£ 325.00** When received.
 Travelling Expenses (if any) **£ 325.00** at 1914

C. Demarest &

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

Committee's Minute **FRI MAR 28 1914**

TUE JAN. 23. 1914

Assigned



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