

## REPORT ON MACHINERY.

No. 15287.

Received at London Office MON. NOV. 19 1917

1917 When handed in at Local Office 9.11.17 Port of Lith

Survey held at Lith Date, First Survey 14.9.16 Last Survey 1.11.1917

on the S/S Nantes (Number of Visits 21) Tons { Gross 2509.80 Net 1549.89

When built 1917

By whom built Firth S.B. Co

By whom made Namye & Fyfe & Co

By whom made Namye & Fyfe & Co

When made 1917

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Registered Horse Power 226 Owners The Société Maritime Auxiliaire de Commerce (S.M.A.) Port belonging to Nantes

Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

**GINES, &c.—Description of Engines** Lith

No. of Cylinders 3 No. of Cranks 3

Length of Stroke 36 Revs. per minute 78 Dia. of Screw shaft 11.42 Material of Steel

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

the propeller boss Yes If the liner is in more than one length are the joints burned No 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 No If two

are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 48

Dia. of Crank shaft journals 10.71 Dia. of Crank pin 11.4 Size of Crank webs 7.4 x 7.2 Dia. of thrust shaft under

Dia. of screw 14.0 Pitch of Screw 13.6 No. of Blades 4 State whether moveable No Total surface 605

of Feed pumps 2 Diameter of ditto 3.5 Stroke 18 Can one be overhauled while the other is at work Yes

of Bilge pumps 2 Diameter of ditto 3.5 Stroke 18 Can one be overhauled while the other is at work Yes

of Donkey Engines 2 Sizes of Pumps 7.5 x 8 19 x 10 x 10 No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room 43' x 3' In Holds, &c. Two in fore hold, two in after hold

of Bilge Injections 1 sizes 4.4 Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size 4.0 2.2

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 No

all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Both

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

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

at pipes are carried through the bunkers Bilge Injections How are they protected Wood casings

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

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

of examination of completion of fitting of Sea Connections 18/4/17 of Stern Tube 10/9/17 Screw shaft and Propeller 10/9/17

Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Upper Platform

**ERS, &c.—(Letter for record** S **Manufacturers of Steel** Wm. Bramson & Co.

Heating Surface of Boilers 3800 Is Forced Draft fitted No No. and Description of Boilers 2 Simple End

Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 7.9.17 No. of Certificate Special Form 10

each boiler be worked separately Yes Area of fire grate in each boiler 118 59 off No. and Description of Safety Valves to

boiler 2 Spring valves Area of each valve 12.5 Pressure to which they are adjusted 185 lbs Are they fitted with easing gear Yes

least distance between boilers or uptakes and bunkers or woodwork 14 Mean dia. of boilers 14-9 Length 10-6 Material of shell plates S

ness 1.32 Range of tensile strength 28-32 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams Lap with

seams 1.5 in Diameter of rivet holes in long. seams 1.4 Pitch of rivets 9 Lap of plates or width of butt straps 1.5

percentages of strength of longitudinal joint 85 Working pressure of shell by rules 184 Size of manhole in shell 16 x 12

of compensating ring Flanged No. and Description of Furnaces in each boiler 3 Morion Material S Outside diameter 47.4

of plain part top Thickness of plates bottom 3.19 Description of longitudinal joint Welded No. of strengthening rings —

ing pressure of furnace by the rules 200 Combustion chamber plates: Material S Thickness: Sides 2.1 Back 5 Top 3.2 Bottom 3.4

of stays to ditto: Sides 7.8 x 9 Back 8.2 x 8.2 Top 8.2 x 9 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 203

ial of stays S Diameter at smallest part 2.03 Area supported by each stay 72.25 Working pressure by rules 250 End plates in steam space:

ial S Thickness 1.32 Pitch of stays 8.8 x 17 How are stays secured draw Working pressure by rules 180 Material of stays S

er at smallest part 5.51 Area supported by each stay 31.6 Working pressure by rules 182 Material of Front plates at bottom S

ess 1.3 Material of Lower back plate S Thickness 2 Greatest pitch of stays 15 Working pressure of plate by rules 180

er of tubes 3.2 Pitch of tubes 4.4 x 4.4 Material of tube plates S Thickness: Front 1.6 Back 1.6 Mean pitch of stays 14.4 x 9.2

across wide water spaces 14.2 Working pressures by rules 216 Girders to Chamber tops: Material S Depth and

ss of girder at centre 8.4 x 1.2 Length as per rule 31 Distance apart 8.4 Number and pitch of stays in each 2.9

ing pressure by rules 183 Superheater or Steam chest; how connected to boiler — Can the superheater be shut off and the boiler worked

ely — 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 —

ned with rings — Distance between rings — Working pressure by rules — End plates: Thickness — How stayed —

ing pressure of end plates — Area of safety valves to superheater — Are they fitted with easing gear —



VERTICAL DONKEY BOILER—

Manufacturers of Steel

Name

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:—Two Top end & two bottom end connecting rod bolts & nuts, two main bearing bolts, one set coupling bolts, one set feed & life pump valves, assorted bolts & nuts, Iron of various sizes.

The foregoing is a correct description,

Manufacturer.  
Dates of Survey while building  
During progress of work in shops --- 1916 Sept 16, 26, 29 Oct 23, Nov 21, Dec 6, 1917 Jan 11, 25, Feb 12, Mar 6, Apr 14, 1918  
During erection on board vessel --- 1917 May 14, June 14, July 19, Aug 6, 29, Sept 6, 7, 10, 18, Oct 8, 14, 29, Nov 1  
Total No. of visits 24  
Is the approved plan of main boiler forwarded herewith yes

" " " donkey " " "  
Dates of Examination of principal parts—Cylinders 21/11/16 Slides 21/11/16 Covers 21/11/16 Pistons 21/11/16 Rods 23/10/16  
Connecting rods 23/10/16 Crank shaft 11/11/17 Thrust shaft 11/11/17 Tunnel shafts 11/11/17 Screw shaft 11/11/17 Propeller 14/11/17  
Stern tube 14/6/17 Steam pipes tested 17/10/17 Engine and boiler seatings 18/4, 8/10/17 Engines holding down bolts 8/10/17  
Completion of pumping arrangements 29/10/17 Boilers fixed 29/10/17 Engines tried under steam 29/10/17  
Main boiler safety valves adjusted 29/10/17 Thickness of adjusting washers Port Side P<sub>2</sub> 5 1/2 Star Side P<sub>1</sub> 5 1/2  
Material of Crank shaft Steel Identification Mark on Do. 348 GAH Material of Thrust shaft Steel Identification Mark on Do. 348 GAH  
Material of Tunnel shafts Steel Identification Marks on Do. 348 GAH Material of Screw shafts Steel Identification Marks on Do. 348 GAH  
Material of Steam Pipes Cast Iron Test pressure 5240 lbs

General Remarks (State quality of workmanship, opinions as to class, &c.)

The machinery of this vessel has been built under special survey. The materials and workmanship are sound and good and under the vessel's depth in my opinion to have record of + L.M.C. 11.17.

It is submitted that  
this vessel is eligible to  
THE RECORD + L.M.C. 11.17.

J.M. J.W. 21/11/17

The amount of Entry Fee .. £ 2 : : When applied for.  
Special .. £ 31.6 : : 17.11.1917  
Donkey Boiler Fee .. £ : : When received.  
Travelling Expenses (if any) £ : : 29.11.1917

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

Committee's Minute

Assigned

TUE NOV 27 1917

+ L.M.C. 11.17

MACHINERY CERTIFICATE  
WRITTEN

FRI. 29 AUG. 1919

FRI. 28 JUN. 1918

TUE. 22 OCT. 1918

FRI. 10 JAN. 1919

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Lloyd's Register  
Foundation