

## REPORT ON MACHINERY.

No. 39275

Received at London Office

WED. 29 OCT. 1919

Date of writing Report

19

When handed in at Local Office

20/10/19 Port of Glasgow

No. in Survey held at  
Reg. Book.

Date, First Survey 21/4/1919 Last Survey 17/10/1919

on the

S.S. "LONDONIER"

(Standard A)

Tons Gross 5216  
Net 3171

Master

Built at

By whom built Lloyd Royal Belg (No 101519) When built 1919

Engines made at

By whom made W &amp; W Henderson &amp; Co (No 4F) when made 1919

Boilers made at

By whom made Fairfield Bros &amp; Co Ltd (No 543) when made 1919

Registered Horse Power

Owners Lloyd Royal Belg Societe Anonyme Port belonging to Antwerp

Nom. Horse Power as per Section 28

517

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

ENGINES, &amp;c.—Description of Engines Triple Expansion

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders

27" 44" 73"

Length of Stroke

48"

Revs. per minute

80

Dia. of Screw shaft

as per rule 14.7

Material of screw shaft

steel

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 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

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

Length of stern bush

5-0 1/2

Dia. of Tunnel shaft

as per rule 13.3

Dia. of Crank shaft journals

as per rule 13.9

Dia. of Crank pin

14 1/2"

Size of Crank webs

9 X 28

Dia. of thrust shaft under

collars

14 3/4"

Dia. of screw

17-6"

Pitch of Screw

16-6"

No. of Blades

4

State whether moveable

No

Total surface

98.24

No. of Feed pumps

2

Diameter of ditto

4"

Stroke

24"

Can one be overhauled while the other is at work

Yes

No. of Bilge pumps

2

Diameter of ditto

4"

Stroke

24"

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

3

Sizes of Pumps

1 1/2" 2" 3"

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

In Engine Room

(2) 3 1/2"

Suction

(2) 3 1/2"

In Holds, &amp;c

No 1 (2) 3 1/2"

No 2 (2) 3 1/2"

No 3 (2) 3 1/2"

Tunnel well

(1) 3 1/2"

No. of Bilge Injections

1

sizes

12"

Connected to condenser, or to circulating pump

Pump

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

No 3 1/2"

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

No

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

Below

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

1st Suction

How are they protected

Wood casings

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

25.7.19

of Stern Tube

25.7.19

Screw shaft and Propeller

5.8.19

Is the Screw Shaft Tunnel watertight

Yes

Is it fitted with a watertight door

Yes

worked from Engine room to Platform

BOILERS, &amp;c.—(Letter for record

S)

Manufacturers of Steel

W Beardmore

Co Ltd

Total Heating Surface of Boilers

7668 sq ft

Is Forced Draft fitted

Yes

No. and Description of Boilers

3

Simple end

dia

Working Pressure

180 lb

Tested by hydraulic pressure to

360 lb

Date of test

13.6.19

No. of Certificate

14768

14780

14833

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

63.3 sq ft

No. and Description of Safety Valves to

each boiler

2

Spring loaded

Area of each valve

9.6 sq in

Pressure to which they are adjusted

185 lb

Smallest distance between boilers or uptakes and bunkers or woodwork

1-9

Mean Dia. of boilers

Length

Material of shell plates

Thickness

Range of tensile strength

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

long. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

Per centages of strength of longitudinal joint

rivets

plate

Working pressure of shell by rules

Size of manhole in shell

Size of compensating ring

No. and Description of Furnaces in each boiler

3

Corrugated

Material

Outside diameter

Length of plain part

top

Thickness of plates

bottom

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Bottom

Working pressure by rules

End plates in steam space:

Pitch of stays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

Material of stays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space:

Material

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of stays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Thickness

Material of Lower back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

Diameter of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

Pitch across wide water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and

thickness of girder at centre

Length as per rule

Distance apart

Number and pitch of stays in each

Working pressure by rules

Superheater or Steam chest; how connected to boiler

Can the superheater be shut off and the boiler worked

separately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

holes

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

Area of safety valves to superheater

Are they fitted with easing gear

Lloyd's Register

Foundation

report.

00396-00402-0055



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:— 2 Top end bolts & nuts 2 bottom end bolts & nuts  
2 main bearing bolts & nuts 6 coupling bolts and nuts, set of feed  
and bilge pump valves bolts and nuts assorted Iron and  
other articles

*The foregoing is a correct description,*

For DAVID & WM HENDERSON & CO., LTD.

*Manufacturer.*

DIRECTOR.

Dates of Survey while building { During progress of work in shops -- 1917 Apr 21-24 1918 Mar 28 July 24 Aug 5 Sept 2-17 20-23-24 Oct 1-8-14-29 Nov 20  
During erection on board vessel -- 1919 Jan 9-29 Feb 18 Mar 17 May 28 June 4-24 July 8-14-25 Aug 5-25 Sept 15-16-18-19-20-30 Oct 3-4-10-16-17  
Total No. of visits 39

Is the approved plan of main boiler forwarded herewith Standard B

Is the approved plan of main boiler forwarded herewith *Standard* *yes* ✓  
 " " " *donkey* " " "

**Dates of Examination of principal parts**—Cylinders 1.10.18 Slides 1.10.18 Covers 20.10.18 Pistons 20.10.18 Rods 20.10.18

Connecting rods 9.1.19 Crank shaft 8.10.18 Thrust shaft 8.10.18 Tunnel shafts 14.7.19 Screw shaft 14.7.19 Propeller 14.7.19

Stern tube 9.1.19 Steam pipes tested 27.4.19 5.3.18 30.9.19 Engine and boiler seatings 25.7.19 Engines holding down bolts 3.10.19

Completion of pumping arrangements 16.10.19 Boilers fixed 10.10.19 Engines tried under steam 10.10.19 17.10.19

Main boiler safety valves adjusted 10.10.19 Thickness of adjusting washers Port  $\frac{P}{16} \frac{S}{8}$  Centre  $\frac{P}{2} \frac{S}{2}$  Starboard  $\frac{P}{8} \frac{S}{32}$

Material of Crank shaft Steel Identification Mark on Do. 8.10.18  $\frac{4F}{(3) 1836JD(3) 585JD.14.7.19TM}$  Material of Thrust shaft Steel Identification Mark on Do. 87.8.18 1836JD

Material of Tunnel shafts Steel Identification Marks on Do.  $\frac{4F}{(3) 1836JD(3) 585JD.14.7.19TM}$  Material of Screw shafts Steel Identification Marks on Do. 134TM 14.7.19

Material of Steam Pipes Steel ✓ Test pressure 540 lb

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

The Machinery of this Vessel has been Constructed under special Survey in accordance with the Rules and approved Plans. Materials and workmanship are good

The Machinery is eligible in our opinion  
to be classed + LMC 10.19.

It is submitted that  
this vessel is eligible for  
THE RECORD, + LMC 10.19. F.D.

30/10/19.

9R52

The amount of Entry Fee	.. £	:	:	When applied for,
Special	.. .. £	86	18	28.10.19
Donkey Boiler Fee	.. .. £	:	:	When received,
Travelling Expenses (if any)	£	:	:	11/11 19

as & as the *J. H. Murray*  
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

*Committee's Minute* GLASGOW 28 OCT 1919

Assigned + LMC 1019

72

CT 1919  
PROPERTY CERTIFICATE  
29.10.19  
1919

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