

REPORT ON MACHINERY.

No. 1753

Received at London Office
 Date of writing Report *Nov. 13 1919* When handed in at Local Office *Nov. 13 1919* Port of *Montreal*
 Date, First Survey *Mar. 24* Last Survey *Nov. 10 1919*
 No. in Survey held at *Montreal* (Number of Visits)
 Reg. Book. on the *Shul. S.S. 'ALSACE'*
 Master *L. Brunet* Built at *Montreal* By whom built *Canadian Vickers Ltd* When built *1919*
 Engines made at *Montreal* By whom made *Canadian Vickers Ltd* when made *1919*
 Boilers made at *Montreal* By whom made " " when made *1919*
 Registered Horse Power *231* Owners *Compagnie d'Armement d'Importation de Montreal* Port belonging to *Dunkirk*
 Nom. Horse Power as per Section 28 *397* Is Refrigerating Machinery fitted for cargo purposes *No* Is Electric Light fitted *Yes*

ENGINES, &c.—Description of Engines *Triple Expansion S.C.* No. of Cylinders *3* No. of Cranks *3*
 Dia. of Cylinders *25"-41"-68"* Length of Stroke *45* Revs. per minute *75* Dia. of Screw shaft *as per rule 13.68"* Material of *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
 Is 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 *Yes* If two
 liners are fitted, is the shaft lapped or protected between the liners *Yes* Length of stern bush *5'6 1/2"*
 Dia. of Tunnel shaft *as per rule 12.47"* Dia. of Crank shaft journals *as per rule 13.1"* Dia. of Crank pin *13.25"* Size of Crank webs *875x224"* Dia. of thrust shaft under
 collars *13.25"* Dia. of screw *16'3"* Pitch of Screw *15'6"* No. of Blades *4* State whether moveable *No* Total surface *87.4 sq*
 No. of Feed pumps *2* Diameter of ditto *7 1/2 x 9"* Stroke *21* 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 *Bilge 5.10x14x24 Centrifugal 12"* No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room *4-2-3 1/2 P. 2-3 1/2 S.* In Holds, &c. *Bilge 1-8" 1-4" 1-5" 2-3" P. 2-3" S. 2-3" 1-4" 2-3"*
 No. of Bilge Injections *1* sizes *9"* Connected to condenser, or to circulating pump *Yes* Is a separate Donkey Suction fitted in Engine room & size *1 1/2 P 1-4 S.*
 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 *None* How are they protected *Yes*
 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*
 Is the Screw Shaft Tunnel watertight *Yes* Is it fitted with a watertight door *Yes* worked from *Top E.R. platform.*

BOILERS, &c.—(Letter for record *S*) Manufacturers of Steel *Lukens & Co. Pa. U.S.A.*
 Total Heating Surface of Boilers *6930 sq* Is Forced Draft fitted *No.* No. and Description of Boilers *3 Scotch type.*
 Working Pressure *180 lbs* Tested by hydraulic pressure to *360 lbs* Date of test *20-9-19* No. of Certificate *66.*
 Can each boiler be worked separately *Yes* Area of fire grate in each boiler *69 sq* No. and Description of Safety Valves to
 each boiler *2* Area of each valve *8.296 sq* Pressure to which they are adjusted *184 lbs* Are they fitted with easing gear *Yes*
 Smallest distance between boilers or uptakes and bunkers *18"* Mean dia. of boilers *15'6"* Length *10'6"* Material of shell plates *S*
 Thickness *15/16"* Range of tensile strength *Are the shell plates welded or flanged No* Descrip. of riveting: cir. seams *DR*
 long. seams *DBS. T.R.* Diameter of rivet holes in long. seams *15/16"* Pitch of rivets *9"* Lap of plates or width of butt straps *19 1/2"*
 Per centages of strength of longitudinal joint *85.3%* Working pressure of shell by rules *193.* Size of manhole in shell *16x12"*
 Size of compensating ring *37x33"* No. and Description of Furnaces in each boiler *3 Brighton.* Material *S.* Outside diameter *4'2 1/2"*
 Length of plain part *top 19 1/2"* Thickness of plates *bottom 19/32"* Description of longitudinal joint *Weld.* No. of strengthening rings *—*
 Working pressure of furnace by the rules *188* Combustion chamber plates: Material *S* Thickness: Sides *5/8"* Back *5/8"* Top *5/8"* Bottom *1"*
 Pitch of stays to ditto: Sides *7 1/2 x 9"* Back *8 x 8 1/2"* Top *9 x 7 1/2"* If stays are fitted with nuts or riveted heads *Stub* Working pressure by rules *198*
 Material of stays *S* Area at smallest part *1.760"* Area supported by each stay *680"* Working pressure by rules *232* End plates in steam space:
 Material *S* Thickness *1 1/8"* Pitch of stays *18 x 15 1/2"* How are stays secured *Stub* Working pressure by rules *201* Material of stays *S*
 Area at smallest part *5.270"* Area supported by each stay *2790"* Working pressure by rules *194* Material of Front plates at bottom *S*
 Thickness *13/16"* Material of Lower back plate *S* Thickness *7/8"* Greatest pitch of stays *8 x 14"* Working pressure of plate by rules *203*
 Diameter of tubes *3 1/2"* Pitch of tubes *4 3/4 x 4 3/4"* Material of tube plates *S* Thickness: Front *13/16"* Back *3/4"* Mean pitch of stays *9 1/2 x 9 1/2"*
 Pitch across wide water spaces *14 1/2"* Working pressures by rules *216* Girders to Chamber tops: Material *S* Depth and
 thickness of girder at centre *10 x 1 1/2"* Length as per rule *30 1/2"* Distance apart *9"* Number and pitch of stays in each *3-7 1/2"*
 Working pressure by rules *272.* Steam dome: description of joint to shell *—* % of strength of joint *—*
 Diameter *—* Thickness of shell plates *—* Material *—* Description of longitudinal joint *—* Diam. of rivet holes *—*
 Pitch of rivets *—* Working pressure of shell by rules *—* Crown plates *—* Thickness *—* How stayed *—*

SUPERHEATER. Type *—* Date of Approval of Plan *—* Tested by Hydraulic Pressure to *—*
 Date of Test *—* Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler *—*
 Diameter of Safety Valve *—* Pressure to which each is adjusted *—* Is Easing Gear fitted *—*

IS A DONKEY BOILER FITTED?

No

If so, is a report now forwarded?

✓

SPARE GEAR. State the articles supplied:—

2 connecting rod big end bolts ✓	12 cover studs & nuts ✓	1 spare propeller ✓
2 " " bottom " ✓	12 junk ring bolts ✓	1 H.P. piston valve ✓
2 main bearing bolts ✓	1 pair of bottom end braces ✓	1 set H.P. & I.P. piston rings ✓
6 coupling bolts ✓	2 pairs of big end braces ✓	18 ordinary & 6 boiler stay tubes ✓
1 set of feed & bilge pump valves ✓	Assorted bolts & nuts. Round & flat iron ✓	50 condenser tubes & 100 flanges ✓
1 set of main & donkey feed chucks ✓	1 Spare propeller shaft ✓	Set of fire bars for one boiler ✓

The foregoing is a correct description,

J. H. Miller

Manufacturer.

Dates of Survey while building { During progress of work in shops -- } *Mar. 24, 25, 28 Apr. 3, 9, 14, 25, 30 May. 3, 6, 10, 12, 14, 19, 23, 27, 29 June 2, 7, 14, 18, 21, 25 Aug. 6, 11, 12, 19, 20, 27, 29 Sept. 3, 7, 10, 13, 17, 20, 22, 25*
{ During erection on board vessel -- } *Sept. 29, Oct. 1, 3, 6, 14, 20, 24, 29, 30 Nov. 3, 4, 5, 7, 10*
Total No. of visits *51*

Is the approved plan of main boiler forwarded herewith

Yes

" " " donkey " " " ✓

Dates of Examination of principal parts—Cylinders *22-5-19* Slides *14-9-19* Covers *22-5-19* Pistons *2-5-19* Rods *2-5-19*
Connecting rods *26-8-19* Crank shaft *25-7-19* Thrust shaft *25-7-19* Tunnel shafts *26-8-19* Screw shaft *29-8-19* Propeller *29-8-19*
Stern tube *27-8-19* Steam pipes tested *25-10-19* Engine and boiler seatings *24-9-19* Engines holding down bolts *16-10-19*
Completion of pumping arrangements *8-11-19* Boilers fixed *14-10-19* Engines tried under steam *5-11-19*
Completion of fitting sea connections *25-9-19* Stern tube *24-9-19* Screw shaft and propeller *25-9-19*
Main boiler safety valves adjusted *4-11-19* Thickness of adjusting washers *P. 1 1/4" S. 5/16" P. 1 1/4" S. 5/16" P. 1 1/2" S. 5/16"*
Material of Crank shaft *S* ✓ Identification Mark on Do. *O.T.J.* Material of Thrust shaft *S* ✓ Identification Mark on Do. *O.T.J.*
Material of Tunnel shafts *S* ✓ Identification Marks on Do. *O.T.J.* Material of Screw shafts *S* ✓ Identification Marks on Do. *O.T.J.*
Material of Steam Pipes *Steel* Test pressure *540 lbs.*

Is an installation fitted for burning oil fuel

No.

Is the flash point of the oil to be used over 150°F.

✓

Have the requirements of Section 49 of the Rules been complied with

✓

Is this machinery duplicate of a previous case

No.

If so, state name of vessel

✓

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

The engines and boilers of this vessel have been constructed under special survey and in accordance with the rules. The materials & workmanship are good. They have been installed on board together with the auxiliary machinery and all tried under steam with satisfactory results.

The boilers are of good workmanship and the material has been tested in accordance with the rules. They have been tested with water pressure & 360 lbs per sq. in. and found tight. The safety valves have been adjusted under steam & blow at 184 lbs.

In my opinion the machinery of this vessel is in good and efficient condition eligible to be classed in the Register Book of the Society and to have the record of L.M.C. 11-19.

It is submitted that
this vessel is eligible for
THE RECORD. + L.M.C. 11.19.

The amount of Entry Fee ...	£ 15.00	When applied for,
Special ...	£ 199.25	<i>Nov. 10, 1919</i>
Donkey Boiler Fee ...	£ ✓	When received,
Travelling Expenses (if any) £	14.75	<i>15/11/19</i>

Committee's Minute

Assigned

RECEIVED
12/12/19

FRI. 12 DEC. 1919

+ L.M.C. 11, 19

Engineer Surveyor to Lloyd's Register of Shipping.

R. L. Alderson

Rpt. 13.

REPORT

Port of *Montevideo*

No. in Reg. Book on the *Iron* Built at *St. Gall*

Owners *La Francaise*

Yard No. *76* Ele

DESCRIPTION OF DYN

1- 11 KW
engine.

Capacity of Dynamo

Where is Dynamo fixed

Position of Main Switch

Positions of auxiliary s

If fuses are fitted on m
circuits *Yes*

If vessel is wired on the

Are the fuses of non-o

Are all fuses fitted in

are permanent inst

Are all switches and fu

Total number of lights

A 7nd Accom

B 1st Accom

C 1st Accom

D E & B room

E 1st Accom

2 Mast head li

2 Side li

5

If arc lights, what pr

Where are the switc

DESCRIPTION OF

Main cable carrying

Branch cables carry

Branch cables carry

Leads to lamps carry

Cargo light cables car

DESCRIPTION OF

Butter insula

Joints in cables, hou

Are all the joints of

positions, none

Are there any joint

How are the cables

& casing m



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