

REPORT ON MACHINERY.

No. 1273

Port of

Quebec

Received at London Office

19

No. in Survey held at Lewis Date, first Survey 10/9/10 Last Survey 11th Dec 1910
Reg. Book. on the Screw Motor Ferry Boat "Missis" (5) (Number of Visits 7)
Master N. Thivierge Built at Lauzon By whom built J. J. Dapin Sons Tons { Gross 559.38
Engines made at Lewis By whom made Can. Gen. Mch. & Machinery Co. when made 1910 Net 338.05
Boilers made at Sorel By whom made La Cie. Pont-tremont Ltd. when made 1910
Registered Horse Power 128 Owners Quebec & Lewis Ferry Ltd. Port belonging to Quebec
Nom. Horse Power as per Section 28 128 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple Expansion Jet Cond. No. of Cylinders 3 No. of Cranks 3
Dia. of Cylinders 15" 25" 42" Length of Stroke 30" Revs. per minute 100 Dia. of Screw shaft 8 1/2" Material of Steel
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 No If the liner is in more than one length are the joints burned 2 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 Not seen Length of stern bush 36"
Dia. of Tunnel shaft 7 9/16" Dia. of Crank shaft journals 8 1/4" Dia. of Crank pin 8 1/4" Size of Crank webs 6 1/4" Dia. of thrust shaft under
collars 8 1/2" Dia. of screw 10 1/4" Pitch of Screw 14 ft. No. of Blades 4 State whether moveable Yes Total surface 41.15
No. of Feed pumps 2 Diameter of ditto 4 1/2" Stroke 6" Can one be overhauled while the other is at work Yes
No. of Bilge pumps 1 Diameter of ditto 5" Stroke 10" Can one be overhauled while the other is at work —
No. of Donkey Engines 2 Sizes of Pumps 4 1/2" No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room 3 - 3" In Holds, &c. 2 - 3"

No. of Bilge Injections 4 sizes 4" Connected to condenser, or to circulating pump Condenser Is a separate Donkey Suction fitted in Engine room & size Yes 3"
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 Valves
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 Bilge pump How are they protected Alongside Keelson
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 7/10/10 of Stern Tube 10/10/10 Screw shaft and Propeller 10/10/10
Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Screwed up

BOILERS, &c.—(Letter for record —) Manufacturers of Steel Camp Cornique
Total Heating Surface of Boilers 1896 Is Forced Draft fitted Yes No. and Description of Boilers 1 Scotch Marine
Working Pressure 175 lb Tested by hydraulic pressure to 250 lb Date of test 18/10/10 No. of Certificate —
Can each boiler be worked separately — Area of fire grate in each boiler 42 No. and Description of Safety Valves to
each boiler 2 (Spring) Area of each valve 6.06 Pressure to which they are adjusted 175 lb Are they fitted with easing gear No
Smallest distance between boilers or uptakes and bunkers or woodwork 20" Mean dia. of boilers 13 1/4" Length 12 6 1/2" Material of shell plates Steel
Thickness 1 3/8" Range of tensile strength 63000 Are the shell plates welded or flanged Joint Descrip. of riveting: cir. seams 2 10/16"
long. seams 5 1/16" Diameter of rivet holes in long. seams 1 3/8" Pitch of rivets 9" Lap of plates or width of butt straps 21"
Per centages of strength of longitudinal joint 84 1/2 Working pressure of shell by rules 233 Size of manhole in shell 11 1/2" x 15"
Size of compensating ring 29 x 28 x 1 3/4 No. and Description of Furnaces in each boiler 2 Horizontal Material Steel Outside diameter 4 x 5 7/8
Length of plain part 4" Thickness of plates 1 1/16" Description of longitudinal joint welded No. of strengthening rings —
Working pressure of furnace by the rules 216 Combustion chamber plates: Material Steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 3/4"
Pitch of stays to ditto: Sides 6 x 6 Back 6 1/4 x 6 1/4 Top 5 1/2 x 7 1/4 If stays are fitted with nuts or riveted heads Nuts and Working pressure by rules 211
Material of stays Iron Diameter at smallest part 1 1/4" Area supported by each stay 42.187 Working pressure by rules 233 End plates in steam space:
Material Steel Thickness 1 1/16" Pitch of stays 15 1/2 x 11 1/2 How are stays secured Nuts Working pressure by rules 251 Material of stays Steel
Diameter at smallest part 2 1/4" Area supported by each stay 177 Working pressure by rules 180 Material of Front plates at bottom Steel
Thickness 1 1/16" Material of Lower back plate Steel Thickness 1 1/16" Greatest pitch of stays 22" Working pressure of plate by rules 190
Diameter of tubes 3" Pitch of tubes 4 1/8 x 4 3/4 Material of tube plates Steel Thickness: Front 1 1/16" Back 1 1/16" Mean pitch of stays
Pitch across wide water spaces 13 1/2 Working pressures by rules 234 Girders to Chamber tops: Material Steel Depth and
thickness of girder at centre 9.5 x 1.25 Length as per rule 2.4 1/2 Distance apart 7 3/4" Number and pitch of stays in each 4. 5. 5
Working pressure by rules 225 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 —

Ferry Steamer "Louis Joliet"
M.L. 1011 NO 4206

No 1273

VERTICAL DONKEY BOILER— Manufacturers of Steel

No.	Description	When made	Where fixed
Made at	By whom made		
Working pressure	tested by hydraulic pressure to	Date of test	No. of Certificate
Valves	No. of Safety Valves	Area of each	Pressure to which they are adjusted
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
Working pressure of shell by rules	Thickness of shell crown plates	Radius of do.	No. of stays to do.
Diameter of furnace Top	Bottom	Length of furnace	Thickness of furnace plates
Working pressure of furnace by rules	Thickness of furnace crown plates	Stayed by	
Diameter of uptake	Thickness of uptake plates	Thickness of water tubes	Dates of survey

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Ernest Caron

Dates of Survey while building
During progress of work in shops - -
During erection on board vessel - -
Total No. of visits

10/22nd Sept 16/23rd Oct 1910
18/21st Nov 12th Dec 1910
Seven

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders	Slides	Covers	Pistons	Rods
Connecting rods	Crank shaft	Thrust shaft	Tunnel shafts	Screw shaft
Stern tube	Steam pipes tested	Engine and boiler seatings	Engines holding down bolts	Propeller
Completion of pumping arrangements	Boilers fixed	Engines tried under steam		
Main boiler safety valves adjusted	Thickness of adjusting washers			
Material of Crank shaft	Identification Mark on Do.	Material of Thrust shaft	Identification Mark on Do.	
Material of Tunnel shafts	Identification Marks on Do.	Material of Screw shafts	Identification Marks on Do.	
Material of Steam Pipes	Test pressure			

General Remarks (State quality of workmanship, opinions as to class, &c.) The boiler has been constructed under the supervision of the Canadian Local Inspector. The riveting of the shell and circumferential seams has been done with air tools. A large number of the rivets are loose. Caulking of the butt straps is lacking. Nothing can be done until the month of May when Caron has promised to put the boiler in good condition.

The amount of Entry Fee... £ 2 : - :
Special ... £ 19 : 4 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
When applied for...
When received...
for Samuel
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.
Committee's Minute
Assigned
Tue Feb 13 1912
Lm 6 11 11
Lloyd's Register Foundation

Ferry Steamer Louis J. Allard.
msl rept No. 4706.

