

# REPORT ON MACHINERY.

No. 1273

Port of Quebec

Received at London Office \_\_\_\_\_

No. in Survey held at Lewis Date, first Survey 10/9/10 Last Survey 11<sup>th</sup> Dec 1910

Reg. Book. on the Screw Motor Ferry Boat "Missis" (5) (Number of Vents 7) Gross Tons 559.38  
Net Tons 338.05

Master N. Thivierge Built at Lauson By whom built J. J. Dapin Sons When built 1910

Engines made at Lewis By whom made Gen. En. Shost Machinery Coy when made 1910

Boilers made at Soul By whom made La Cie Port-Breton 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 screw shaft 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 lengths 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 7 sizes 4" 10 be fitted 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 Scanned up

## BOILERS, &c.—(Letter for record \_\_\_\_\_) Manufacturers of Steel Carr Corneille

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 1/2" 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 Welded Descrip. of riveting: cir. seams 2 10100

long. seams 5 1400 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 rivets 84 1/2 plate 100 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 1/8

Length of plain part top — bottom 4" Thickness of plates crown 11/16 bottom 1/16 Description of longitudinal joint welded No. of strengthening rings —

Working pressure of furnace by the rules 310 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 11/16 Pitch of stays 15 1/2 x 11 1/2 How are stays secured Double 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 11/16 Material of Lower back plate Steel Thickness 11/16 Greatest pitch of stays 23" Working pressure of plate by rules 190

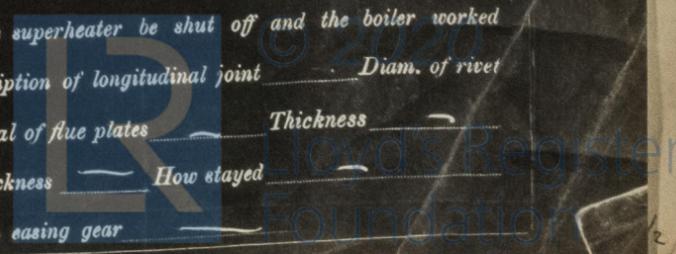
Diameter of tubes 2" Pitch of tubes 4 1/8 x 4 3/4 Material of tube plates Steel Thickness: Front 1/16 Back 1/16 Mean pitch of stays —

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 325 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 Jolliffe  
 M.V. No. 4206

No 1273

VERTICAL DONKEY BOILER— Manufacturers of Steel

No.	Description		When made	Where fixed
Made at	By whom made		No. of Certificate	Description of Safety
Working pressure	tested by hydraulic pressure to	Date of test	Fire grate area	
Valves	No. of Safety Valves	Area of each	Pressure to which they are adjusted	Date of adjustment
If fitted with casing 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
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		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,

*Ernest Carr*

Manufacturer.

Dates of Survey while building	During progress of work in shops - -	10/22 <sup>nd</sup> Oct 16/23 <sup>rd</sup> Oct 1910
	During erection on board vessel - -	18/21 <sup>st</sup> Nov. 12 <sup>th</sup> Dec 1910
	Total No. of visits	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	
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 Carr has promised to put the boiler in good condition.*

The amount of Entry Fee . . . £ 2 : -	When applied for.
Special . . . . . £ 19 : -	When received.
Donkey Boiler Fee . . . . . £	
Travelling Expenses (if any) £	

Committee's Minute  
 Assigned

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

THE FEB 13 1912  
 Lm 6 11 11



Ferry Steamer Louis J. Collier.  
MSL report No. 4706.

0288 2/2



© 2020

Lloyd's Register  
Foundation

Rpt. 13.

Ratio of work

No. in  
Reg. Book

Built at

Owner's

Electric

Is the V

System

Pressure

Direct

If alterna

Has the

Generat

are they

Where mo

series with

approved

Have cert

Are all ta

short circ

Position

in way o

woodwork

are the ge

Earthing

in metal

a fuse on

Switch

injury a

horizontal

material

is it of a

non-ignit

type

omnibus

"off" po

switches

Two

Are built

fire-resis

volute

do these