

REPORT ON MACHINERY.

No. 1273

Port of *Quebec*

Received at London Office

MIN 9 MAY 1911

No. in Survey held at *Levis* Date, first Survey *10/9/10* Last Survey *12/12/10*
 7. Book. on the *Screw Writter Ferry Boat 'Messis' (5)* (Number of Visits *7*)
 Master *N. Thivierge* Built at *Leukon* By whom built *J. J. Dapic & Son*
 Engines made at *Levis* By whom made *Cogn. En. Shout Machinery Co* when made *1910*
 Makers made at *Sorel* By whom made *La Cie Pontbrenard Ltd* when made *1910*
 Registered Horse Power *128* Owners *Quebec & Levis Ferry Ltd* Port belonging to *Quebec*
 n. Horse Power as per Section 28 *128* Is Refrigerating Machinery fitted for cargo purposes *No* Is Electric Light fitted *Yes*

GINES, &c.—Description of Engines *Triple Expansion Jet Cond* No. of Cylinders *3* No. of Cranks *3*
 1. of Cylinders *15.25.42* Length of Stroke *30* Revs. per minute *100* Dia. of Screw shaft *8.875* Material of *Steel*
 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
 the propeller boss *No* If the liner is in more than one length are the joints burned *2* *Separate* 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
 ers are fitted, is the shaft lapped or protected between the liners *Not seen* Length of stern bush *36*
 a. of Tunnel shaft *as per rule 7.9* Dia. of Crank shaft journals *as per rule 8.56* Dia. of Crank pin *8.75* Size of Crank webs *6.4* Dia. of thrust shaft under
 lars *8.75* Dia. of screw *10.5* Pitch of Screw *14* No. of Blades *4* State whether moveable *Yes* Total surface *41.15*
 of Feed pumps *2* Diameter of ditto *4.5* Stroke *6* Can one be overhauled while the other is at work *Yes*
 of Bilge pumps *1* Diameter of ditto *5* Stroke *10* Can one be overhauled while the other is at work
 of Donkey Engines *2* Sizes of Pumps *4.5* No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room *3.3* In Holds, &c. *3.3*

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*
 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*
 All connections with the sea direct on the skin of the ship *Yes* Are they Valves or Cocks *Valves*
 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*
 pipes are carried through the bunkers *Ridge pump* How are they protected *Alongside Keelson*
 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*

ates 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*
 the Screw Shaft Tunnel watertight *Yes* Is it fitted with a watertight door *Yes* worked from *Screwed up*

ILERS, &c.—(Letter for record) Manufacturers of Steel *Carr Carré*
 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 *10/10/10* No. of Certificate *Not*

In each boiler be worked separately Area of fire grate in each boiler *42* No. and Description of Safety Valves to
 ch 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 *13.75* Length *12.6* Material of shell plates *Steel*
 thickness *1.38* Range of tensile strength *62000* Are the shell plates welded or flanged joint *Welded* Descrip. of riveting: cir. seams *2 Wood*
 g. seams *5.14* Diameter of rivet holes in long. seams *1.38* Pitch of rivets *9* Lap of plates or width of butt straps *21*
 percentages of strength of longitudinal joint *84* Working pressure of shell by rules *223* Size of manhole in shell *11.2 x 15*

of compensating ring *29 x 28 x 1.38* No. and Description of Furnaces in each boiler *3 Morrison* Material *Steel* Outside diameter *4 x 5.78*
 length of plain part *top 4* Thickness of plates *crown 1.16 bottom 1.16* Description of longitudinal joint *welded* No. of strengthening rings
 Working pressure of furnace by the rules *210* Combustion chamber plates: Material *Steel* Thickness: Sides *9/16* Back *9/16* Top *9/16* Bottom *3/4*
 ch of stays to ditto: Sides *6.6* Back *6.6* Top *5.2* Bottom *7.4* If stays are fitted with nuts or riveted heads *Nuts and* Working pressure by rules *211*

Material of stays *Iron* Diameter at smallest part *1.4* Area supported by each stay *42.187* Working pressure by rules *233* End plates in steam space:
 Material *Steel* Thickness *1.16* Pitch of stays *15.2 x 11.2* How are stays secured *Double nuts* Working pressure by rules *251* Material of stays *Steel*
 Diameter at smallest part *2.74* Area supported by each stay *177* Working pressure by rules *180* Material of Front plates at bottom *Steel*
 thickness *1.16* Material of Lower back plate *Steel* Thickness *1.16* Greatest pitch of stays *2.2* Working pressure of plate by rules *190*
 Diameter of tubes *2* Pitch of tubes *4.8 x 4.36* Material of tube plates *Steel* Thickness: Front *1.16* Back *1.16* Mean pitch of stays
 ch across wide water spaces *13.2* Working pressures by rules *234* Girders to Chamber tops: Material *Steel* Depth and
 thickness of girder at centre *9.5 x 1.35* Length as per rule *2.4* Distance apart *7.34* 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
 Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 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

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VERTICAL DONKEY BOILER— Manufacturers of Steel

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	
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		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,

The Canadian General and Shoe Machinery Co. Limited.

Manufacturer.

Ernest Carr Managing Director

Dates of Survey while building	During progress of work in shops - -	10/22 nd Sept 16/23 rd Oct 1910
	During erection on board vessel - -	18/21 st Nov. 12 th 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	Propeller
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 leaking. Nothing can be done until the month of May when Coners has promised to put the boiler in good condition.

The amount of Entry Fee..	£ 2 : - :	When applied for,
Special	£ 19.4 - :	When received,
Donkey Boiler Fee	£ :	
Travelling Expenses (if any) £	:	

Committee's Minute

Assigned

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

THE FEB 13 1912

MACHINERY CERTIFICATE
WRITTEN

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