

REPORT ON MACHINERY.

No. 1273

Port of *Quebec*

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No. in Survey held at *Lewis* Date, first Survey *10/9/10* Last Survey *12 Dec 1910*
 on the *Screw Writter Ferry Boat "Messis" (5)* (Number of Visits *7*)
 Master *N. Thivierge* Built at *Leukon* By whom built *G. J. Dapic & Sons* Tons { Gross *559.38*
 Engines made at *Lewis* By whom made *Cogn. Eng. Shop Machinery Coy* Net *338.05*
 Valves made at *Sorel* By whom made *La Cie Pontbrenon Lett* When built *1910*
 Registered Horse Power *128* Owners *Quebec & Lewis Ferry Ltd* Port belonging to *Quebec*
 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*
 No. of Cylinders *15 25 42* Length of Stroke *30* Revs. per minute *100* Dia. of Screw shaft *8.87* 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
 the propeller boss *Yes* If the liner is in more than one length are the joints burned *2* *Separate 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
 shafts are fitted, is the shaft lapped or protected between the liners *Not seen* Length of stern bush *36*
 Dia. of Tunnel shaft *8.5* Dia. of Crank shaft journals *8.06* Dia. of Crank pin *8.75* Size of Crank webs *6.4* Dia. of thrust shaft under
 bars *8.5* Dia. of screw *10ft* Pitch of Screw *14ft* No. of Blades *4* State whether moveable *Yes* Total surface *41.15*
 No. of Feed pumps *2* Diameter of ditto *4.5* 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 *4.5* 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" 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*
 How are the pipes carried through the bunkers *Ridge 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*

WELTERS, &c.—(Letter for record) Manufacturers of Steel *Carr Carnegie*
 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 *350 lb* Date of test *18/10/10* No. of Certificate
 Can each boiler be worked separately *Yes* Area of fire grate in each boiler *45* 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 *62000* Are the shell plates welded or flanged joint *Welded* Descrip. of riveting: cir. seams *2 Wood*
 Long. seams *5 Wood* Diameter of rivet holes in long. seams *1 3/8* Pitch of rivets *9* Lap of plates or width of butt straps *21*
 Percentages of strength of longitudinal joint rivets *84* Working pressure of shell by rules *223* Size of manhole in shell *11 1/2 x 15*
 Plate *100* Description of longitudinal joint *welded* No. of strengthening rings
 Length of compensating ring *29 x 28 x 1 3/4* No. and Description of Furnaces in each boiler *2 Morrison* Material *Steel* Outside diameter *4 x 5 7/8*
 Length of plain part top *4* Thickness of plates crown *11/16* Description of longitudinal joint *welded* No. of strengthening rings
 bottom *4* bottom *11/16*

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*
 No. 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 *43.187* 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 *2 1/2* Working pressure of plate by rules *190*
 Diameter of tubes *2* Pitch of tubes *4 1/8 x 4 3/16* Material of tube plates *Steel* Thickness: Front *11/16* Back *11/16* 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 1.35* 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
 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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