

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 2907

Port of Montreal Date of First Survey 2nd Feb. 1928 Date of Last Survey 16th May 1928 No. of Visits 16
 No. in Reg. Book on the Iron or Steel Tunnels "Quebec" Port belonging to Montreal C. C.
 Built at Langon Quebec By whom Davie Shipbuilding & Repairing When built 1928
 Owners Canada Steamship Lines Ltd. Owners' Address ✓
 Yard No. 497 Electric Light Installation fitted by Davie Shipbuilding & Repairing C. C. When fitted 1928

DESCRIPTION OF DYNAMO, ENGINE, ETC.

Three (3) 50 H.P. Turbo Generators, Elliot C. Turbine
General Electric Generator. 75 H.P. 3600 R.P.M.
 Capacity of Dynamo 3 - 400 Amperes at 125 Volts, whether continuous or alternating current Continuous
 Where is Dynamo fixed On "D" deck in engine casing Whether single or double wire system is used double
 Position of Main Switch Board Adjacent to dynamo having switches to groups 14 panels of lights, &c., as below
 Positions of auxiliary switch boards and numbers of switches on each As shown on attached sheet

If fuses are fitted on main switch board to the cables of main circuit Circuit breaker and on each auxiliary switch board to the cables of auxiliary circuits Yes and at each position where a cable is branched or reduced in size Yes and to each lamp circuit Yes

If vessel is wired on the double wire system are fuses fitted to both flow and return wires or cables of all circuits including lamp circuits Yes

Are the fuses of non-oxidizable metal Standard fuses and constructed to fuse at an excess of 25% per cent over the normal current

Are all fuses fitted in easily accessible positions Yes Are the fuses of standard dimensions Yes If wire fuses are used are permanent instructions fitted on or near each switch board giving particulars of proper size of fuse for each circuit Yes

Are all switches and fuses constructed of incombustible materials and fitted on incombustible bases Yes

Total number of lights provided for _____ arranged in the following groups:—

	lights each of	candle power requiring a total current of	Amperes
A			
B			
C			
D			
E			
Mast head light with <u>2</u> lamps each of <u>50 H.</u>		candle power requiring a total current of <u>1</u>	Amperes
Side light with <u>2</u> lamps each of <u>50 H.</u>		candle power requiring a total current of <u>1</u>	Amperes
Cargo lights of _____		candle power, whether incandescent or arc lights	

If arc lights, what protection is provided against fire, sparks, &c. None used except Propeller on Pilot house which is totally enclosed

Where are the switches controlling the masthead and side lights placed In Pilot house by automatic tiller

DESCRIPTION OF CABLES. Main cables 500000 cm? see below

Main cable carrying <u>400</u> Amperes, comprised of <u>61</u> wires, each <u>#11 B&S</u> S.W.G. diameter, _____ square inches total sectional area
Branch cables carrying _____ Amperes, comprised of <u>1</u> wires, each <u>14 B&S</u> S.W.G. diameter, <u>00321</u> square inches total sectional area
Branch cables carrying _____ Amperes, comprised of _____ wires, each <u>See below</u> S.W.G. diameter, _____ square inches total sectional area
Leads to lamps carrying _____ Amperes, comprised of _____ wires, each _____ S.W.G. diameter, _____ square inches total sectional area
Cargo light cables carrying _____ Amperes, comprised of _____ wires, each _____ S.W.G. diameter, _____ square inches total sectional area

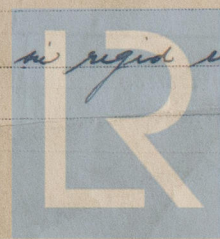
DESCRIPTION OF INSULATION, PROTECTION, ETC.

All wires standard 600 Volts, none smaller than #14 B&S. All wires in machinery spaces run in Conduit. All passenger, Public rooms and Crews quarters wired with #14 single lead on rubber #14 & #8 #6 rubber insulated
#00 - 50000 C.T. #6 rubber
 Joints in cables, how made, insulated, and protected #14 B&S screw connectors fibre insulating sleeve over larger sizes
splined and soldered, rubber tape and friction tape. All joints made in metal boxes

Are all the joints of cables thoroughly soldered, and the flux used not containing acids or other corrosive substances Yes Are all joints in accessible positions, none being made in bunkers, cargo spaces, or spaces which may at any time be used for carrying cargo, stores, or baggage Yes

Are there any joints in or branches from the cable leading from dynamo to main switch board No

How are the cables led through the ship, and how protected Feeders to distributing panels in rigid iron conduit.



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DESCRIPTION OF INSULATION, PROTECTION, ETC.—continued.

Are they in places always accessible *Yes*

What special protection has been provided for the cables in open alleyways or where exposed to weather or moisture *Waterlight fittings used also lead covered cables*

What special protection has been provided for the cables near galleys or oil lamps or other sources of heat *Iron conduit kept at distance from source of heat*

What special protection has been provided for the cables near boiler casings *Conduit*

What special protection has been provided for the cables in engine room *Conduit*

How are cables carried through beams *Lead covered cables with bushings through bulkheads, &c. Waterlight glands*

How are cables carried through decks *Deck tubes and waterlight conduit fittings*

Are any cables run through coal bunkers *No* or cargo spaces *Yes* or spaces which may be used for carrying cargo, stores, or baggage *Yes*

If so, how are they protected *In in conduit and guarded fixtures*

Are any lamps fitted in coal bunkers or spaces which may at times be used for cargo, coals, or baggage *No lamps in bunkers*

If so, how are the lamp fittings and cable terminals specially protected *Waterlight fixture in freight space guarded*

Where are the main switches and fuses for these lights fitted *In control panel*

If in the spaces, how are they specially protected *✓*

Are any switches or fuses fitted in bunkers *No*

Cargo light cables, whether portable or permanently fixed *✓*

How fixed *✓*

In vessels fitted on the single wire system, how is the dynamo terminal fixed to the hull of vessel *✓*

How are the returns from the lamps connected to the hull *✓*

Are all the joints with the hull in accessible positions *✓*

Is the installation supplied with a voltmeter *Yes*, and with an amperemeter *Yes*, fixed *Yes*

VESSELS BUILT FOR CARRYING PETROLEUM.

In vessels built for carrying petroleum, are all switches and fuses fitted in positions not liable to the accumulation of petroleum vapour or gas

Are any switches, fuses, or joints of cables fitted in the pump room or companion

How are the lamps specially protected in places liable to the accumulation of vapour or gas

The copper used is guaranteed to have a conductivity of not less than that of the Engineering Standards Committee's standard, and the wires are protected by tinning from the sulphur compounds present in the insulating material.

Insulation of cables is guaranteed to have a resistance of not less than _____ megohms per statute mile at 60° Fahrenheit after 24 hours' immersion in water, the test being made after one minute's electrification at not less than 500 volts and while the cable is still immersed.

The foregoing statements are a correct description of the Electric Light installation fitted by us on this vessel and we declare that it is at this date in good order and safe working condition.

Electrical Engineers

Date

COMPASSES.

Distance between dynamo or electric motors and standard compass *142 feet*

Distance between dynamo or electric motors and steering compass *149 feet*

The nearest cables to the compasses are as follows:—

A cable carrying	Amperes	feet from standard compass	feet from steering compass
<i>35</i>	<i>5</i>	<i>8</i>	

Have the compasses been adjusted with and without the electric installation at work at full power *without*

The maximum deviation due to electric currents, etc., was found to be _____ degrees on _____ course in the case of the standard compass _____ course in the case of the steering compass.

DRY SHIPBUILDING & REPAIRING COMPANY, Limited,

George D. Davis

Manager Builder's Signature.

Date *4th June 1928*

GENERAL REMARKS.

This vessel has been fitted with an Electric Light installation as above and the workmanship is good.

On completion it was tested out under full working conditions and found satisfactory. It is submitted that this vessel is eligible for THE RECORD.

See Light

Geo. Allan

Surveyor to Lloyd's Register of Shipping.

Committee's Minute



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