

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 1625

Port of Montreal Date of First Survey June 27 Date of Last Survey Oct. 22 No. of Visits 9
 No. in Reg. Book on the ~~Iron or Steel~~ Wood S.S. "War Quebec" Port belonging to Quebec
 Built at Quebec, P.Q. By whom Quebec Shipbuilding & Repair Co. When built 1918
 Owners Imperial Munitions Board Owners' Address Wawa, Ont.
 Yard No. 2 Electric Light Installation fitted by Owners When fitted 1918

DESCRIPTION OF DYNAMO, ENGINE, ETC.

1-10K.W. set. High speed enclosed Eddie McCallock engine direct coupled to a General Electric Co's dynamo.
 Capacity of Dynamo 86 Amperes at 120 Volts, whether continuous or alternating current Continuous
 Where is Dynamo fixed On E.R. Platform Whether single or double wire system is used Double
 Position of Main Switch Board ditto having switches to groups six of lights, &c., as below
 Positions of auxiliary switch boards and numbers of switches on each All distribution boxes.

If fuses are fitted on main switch board to the cables of main circuit Yes 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 Yes and constructed to fuse at an excess of 50 per cent over the normal current
 Are all fuses fitted in easily accessible positions Yes Are the fuses of standard dimensions Cartridge Fuses 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 Cartridge Fuses
 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:—

Group	Description	Number of Lights	Candle Power	Current (Amperes)
A	Navigation	5	32	5.5
B	#1 Aluminol	40	16	22.0
B	#2	24	16	13.0
C	Cargo clusters	36	16	11.0
D	Wireless	1	12.0	12.0
E	Machinery	38	16	16.5
1	Mast head light with 2 lamps each of 1-2 cps. 1-32	2	32	1.5
2	Side light with 2 lamps each of " "	2	16	3.0
6	Cargo lights of as above	6	16	

candle power, whether incandescent or arc lights incandescent

If arc lights, what protection is provided against fire, sparks, &c. Yes

Where are the switches controlling the masthead and side lights placed In Wheel House.

DESCRIPTION OF CABLES.

Number of Cables	Amperes	Wires	W.G. Diameter	Total Sectional Area (Square Inches)
Main cable carrying	83	19	74.5 MILLS S.W.G.	105.500 CIR MILLS square inches
Branch cables carrying	22	7	48.6 S.W.G.	16.510 square inches
Branch cables carrying	12	7	38.5 S.W.G.	10.380 square inches
Leads to lamps carrying	3	7	24.2 S.W.G.	4.107 square inches
Cargo light cables carrying	3	61	.010 S.W.G.	6.530 square inches

DESCRIPTION OF INSULATION, PROTECTION, ETC.

1/2" of 30% Para Rubber, Taped. Two braids & compounded. Drawn into Sheardised Conduit, Cast iron W.T. Junction boxes.

Joints in cables, how made, insulated, and protected Extension box system, employing Porcelain extension blocks in W.T. 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 All in Steel Conduit.



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 *All Steel Conduit.*

What special protection has been provided for the cables near galleys or oil lamps or other sources of heat *Nil.*

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

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

How are cables carried through beams through bulkheads, &c. *W.T. glands.*

How are cables carried through decks *W.T. tubes.*

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

If so, how are they protected *All in Steel Conduit*

Are any lamps fitted in coal bunkers or spaces which may at times be used for cargo, coals, or baggage *Yes*

If so, how are the lamp fittings and cable terminals specially protected *Fixed up between beams. Heavy cast fittings & guards.*

Where are the main switches and fuses for these lights fitted *Poop deck alleyway.*

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 *Portable.* How fixed *Plug & Switch in W.T. box.*

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 to *Switchboard*

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 *600* 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.

Imperial Munitions Board per *John A. Bodale* Electrical Engineers Date _____
Electrical Engineer

COMPASSES.

Distance between dynamo or electric motors and standard compass *Eighty six feet*

Distance between dynamo or electric motors and steering compass *Eighty feet.*

The nearest cables to the compasses are as follows:—

A cable carrying	<i>5.5</i> Amperes	<i>10</i> feet from standard compass	<i>9</i> feet from steering compass
A cable carrying	Amperes	feet from standard compass	feet from steering compass
A cable carrying	Amperes	feet from standard compass	feet from steering compass

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

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

Quince Shipbuilding & Repair Co Ltd Builder's Signature. Date _____
W. Campbell

GENERAL REMARKS.

The materials & workmanship of this installation are good. The whole has been fitted on board and tried out under full working conditions with satisfactory results

It is submitted that this vessel is eligible for THE RECORD. ELEC. LIGHT 1048 YX.

18/12/18

W. J. Alderson
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. DEC. 20 1918

FRI. JUL. 11 1921

TUE. 15. APR. 1919

FRI. APR. 16 1920

THE AUG. 17 1920

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50,617.—1 transfer.