

**REPORT ON ELECTRICAL EQUIPMENT.**

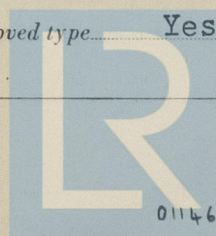
(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

2 FEB 1945

Received at London Office

Date of writing Report January 9 1945 When handed in at Local Office 19 Port of Saint John, N. B.  
 No. in Survey held at Saint John, N. B. Date, First Survey Sept. 25 Last Survey Dec. 30 1944  
 Reg. Book. (Number of Visits 20)  
on the single screw steamer "OAKMOUNT PARK" Tons { Gross 2883  
 Net             
 Built at Saint John, N. B. By whom built St. John Drydock & Shipbuilding Co. Ltd. Yard No. 19 When built 1944  
 Owners Canadian Government Port belonging to Montreal  
 Electric Light Installation fitted by St. John Drydock & Shipbuilding Co. Ltd. Contract No.            When fitted 1944  
 Is the Vessel fitted for carrying Petroleum in bulk No

System of Distribution Two conductor insulated  
 Pressure of supply for Lighting 115 volts, Heating -- volts, Power -- volts.  
 Direct or Alternating Current, Lighting Direct Current Power -  
 If alternating current system, state frequency of periods per second -  
 Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off Yes  
 Generators, do they comply with the requirements regarding temperature rise Yes, are they compound wound Yes  
 are they over compounded 5 per cent. Yes, if not compound wound state distance between each generator -  
 Where more than one generator is fitted are they arranged to run in parallel Yes, is an adjustable regulating resistance fitted in series with each shunt field Yes Have certificates of test results for machines under 100 kw. been submitted and approved Yes Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing -  
 Are all terminals accessible, clearly marked, and furnished with sockets Yes, are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Yes Are the lubricating arrangements of the generators as per Rule Yes  
 Position of Generators Starboard side of E.R. operating platform between frames Nos. 65-76. is the ventilation in way of the generators satisfactory Yes are they clear of all inflammable material Yes if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators - and -, are the generators protected from mechanical injury and damage from water, steam or oil Yes, are their axes of rotation fore and aft Yes  
 Earthing, are the bedplates and frames of the generating plant efficiently earthed Yes are the prime movers and their respective generators in metallic contact Yes Main Switch Boards, where placed Starboard side, bunker bulkhead behind forward generator the generators and main switchboard are not placed in the same compartment, is each generator provided with a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard -  
 Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes Yes, are they protected from mechanical injury and damage from water, steam or oil Yes, if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards - and -, are they constructed wholly of durable, non-ignitable non-absorbent materials Yes, is all insulation of high dielectric strength and of permanently high insulation resistance Yes, is it of an approved type Yes, if semi-insulating material is used, are all conducting parts insulated from the slab with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework -, is the non-hygroscopic insulating material of an approved type -, and is the frame effectively earthed Yes Are the fittings as per Rule regarding:—spacing or shielding of live parts Yes, accessibility of all parts Yes, absence of fuses on back of board Yes, temperature rise of omnibus bars Yes, individual fuses to voltmeter, pilot or earth lamp Yes, are moving parts of switches alive in the "off" position No are all screws and nuts securing connections effectively locked Yes are any fuses fitted on the live side of switches No Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches Main switches and equalizer switches operate in parallel and have automatic over-load protector.  
 Are turbine driven generators fitted with emergency trip switch as per rule - Are cupboards or compartments containing switchboards composed of fire-resisting material or lined with approved material - Instruments on main switchboard Yes ammeters Yes voltmeters Yes synchronising device for paralleling purposes. For compound machines is the ammeter connected on the opposite pole to equaliser connection Yes Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system Ground lamps Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules Yes are the fusible cutouts of an approved type Yes have the reversed



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PARTICULARS OF GENERATING PLANT.									
DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.		
		Kilowatts.	Volts.	Amperes.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.	
MAIN ...	2	15	115	130	575	Single cylinder vertical engine 8" x 4"			
AUXILIARY ...									
EMERGENCY ...									
ROTARY TRANSFORMER									

GENERATOR, LIGHTING AND HEATING CONDUCTORS.									
DESCRIPTION AWG Size	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT. AMPERES.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED
	No. per Pole.	Total Nominal Area per Pole Sq. Ins.	No.	Diameter.	Circuit.	Rule.			
MAIN GENERATOR #0000...	1	0.1659	19	.1056	130	160	50 ft.	Rubber	Strong steel conduits
EQUALISER CONNECTIONS ...	1	0.1659	19	.1056	130	160	50 "	"	"
AUXILIARY GENERATOR ...									
EMERGENCY GENERATOR...									
ROTARY MOTOR TRANSFORMER GENERATOR...									
ENGINE ROOM ... #14	1	0.0032	7	.0242	5	11.5	60 ft.	"	"
BOILER ROOM ... #14	1	0.0032	7	.0242	5	11.5	75 ft.	"	"
AUXILIARY SWITCHBOARDS #14	1	0.0029	7	.0772	35	56.0	100 Ft.	"	"
ACCOMMODATION ... #12	1	0.0051	7	.0305	5	16.5	250 ft.	"	"
WIRELESS ... #6	1	0.0206	7	.0612	13	41	180 ft.	"	"
SEARCHLIGHT ... #14	1	0.0032	7	.0242	5	11.5	140 ft.	"	"
MASTHEAD LIGHT ... #14	1	0.0032	7	.0242	5	11.5	50 "	"	"
SIDE LIGHTS ... #14	1	0.0032	7	.0242	5	11.5	25 "	"	"
COMPASS LIGHTS ... #14	1	0.0032	7	.0242	5	11.5	50 "	"	"
POOP LIGHTS ... #12	1	0.0032	7	.0242	5	11.5	50 "	"	"
CARGO LIGHTS ... #12	1	0.0051	7	.0305	7	16.5	For'd 50 ft. Aft 50 "	"	"
ARC LAMPS ...	-								
HEATERS ... #12	1	0.0051	7	.0305	5	16.5	250 ft.	"	"

MOTOR CONDUCTORS.										
DESCRIPTION.	No. of Motors.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT. AMPERES.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED
		No. per Pole.	Total Nominal Area per Pole Sq. Ins.	No.	Diameter.	In Circuit	Rule.			
BALLAST PUMP ...										
MAIN BILGE LINE PUMPS ...										
GENERAL SERVICE PUMP ...										
EMERGENCY BILGE PUMP ...										
SANITARY PUMP ...										
CIRC. SEA WATER PUMPS ...										
CIRC. FRESH WATER PUMPS...										
AIR COMPRESSOR ...										
FRESH WATER PUMP ...										
ENGINE TURNING GEAR ...										
ENGINE REVERSING GEAR ...										
LUBRICATING OIL PUMPS ...										
OIL FUEL TRANSFER PUMP ...										
WINDLASS ...										
WINCHES, FORWARD ...										
WINCHES, AFT... ..										
STEERING GEAR—										
(a) MOTOR GENERATOR ...										
(b) MAIN MOTOR ...										
WORKSHOP MOTOR... ..										
VENTILATING FANS ...										
D.G. Motors #0000	2	1	0.1659	19	.1055	115/	4180	60 ft.	Rubber	Strong steel conduits
D.G. Generators #0000	2	1	0.1659	19	.1055					



All Conductors are of annealed copper conforming to British Standard Specification No. 7 (or International Electro-technical Commission Publication No. 28).

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.

The foregoing is a correct description.

For St. John Dry Dock & Shipbuilding Co. Ltd.

Electrical Engineers.

Date

23<sup>rd</sup> Jan. 1945

#### COMPASSES.

Distance between electric generators or motors and standard compass 64 ft.

Distance between electric generators or motors and steering compass 56 ft.

The nearest cables to the compasses are as follows:—

A cable carrying 2 Ampères 4 feet from standard compass 4 feet from steering compass.

A cable carrying 3 Ampères 8 feet from standard compass 6 feet from steering compass.

A cable carrying 3 Ampères 8 feet from standard compass 6 feet from steering compass.

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

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted Yes

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

For St. John Dry Dock & Shipbuilding Co. Ltd.

Builder's Signature.

Date

23<sup>rd</sup> Jan. 1945

Is this installation a duplicate of a previous case Yes If so, state name of vessel

ROCKWOOD PARK, DARTMOUTH PARK, FAWKNER PARK, TARONGA PARK, BLOOMFIELD PARK.

General Remarks (State quality of workmanship, opinions as to class, &c.)

The electrical equipment of this vessel has been fitted in accordance with the Society's Rules and Regulations; the materials and workmanship used throughout are of good and sound quality. The installation has been tested under full working conditions and found satisfactory.

Noted

SRM

6.2.45

Total Capacity of Generators 30 Kilowatts.

The amount of Fee ... \$95.00

When applied for,

Jan. 23 1945

When received,

19

Travelling Expenses (if any) £

(Included with engine report)

Committee's Minute FRI. 9 FEB 1945

Assigned Sue F.E. machy opt.

Surveyor to Lloyd's Register of Shipping.



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