## REPORT ON ELECTRICAL EQUIPMENT. (OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at Lundon Office. 29 NOV 1945
Date of writing Report Oct-12th, 4.5 When handed in at Local Office Oct. 10th, 145 Port of Montreal.
No. in Survey held at Montreal Date, First SurveyApr. 25/45 Last Survey Sept. 29th 1945
(Number of Visit D81 IV ATTENDANCE
on the Twin Screw Transport Ferry CN 955  Tons Gross 429 0.75  Net 2430. 45
Built at Montreal By whom built Canadian Vickers Yard No. 207 When built 1945
Owners British Admiralty Port belonging to
Electric Light Installation fitted by Canadian Vickers Limited Contract No. 207 When fitted 1945
Is the Vessel fitted for carrying Petroleum in bulk. No
System of Distribution Two Wire
Pressure of supply for Lighting 220
Direct or Alternating Current, Lighting Direct Current Power Direct Current volts.
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 series at the Van
are they over compounded 5 per cent. Yes , i NAKANAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAK
Where more than one generator is fitted are then are a line with the second sec
carios with well 1 . C.11 Vog
Trace correlates of test results for machines under 100 kw. been submitted and
As all to in its and testing Yes
Are all terminals accessible, clearly marked, and furnished with sockets Yes , are they so spaced or shielded that they cannot be accidentally earthed,
Are the lubricating arrangements of the generators as per Rule Yes  Congression of Generators 2 - 120 KW Turbo Genrs. in P & S Eng. Rooms 2 60 kW Diesel Compts.
Respectively Respectively , is the ventilation
n 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,
tre the generators protected from mechanical injury and damage from water, steam or oil Yes, are their axes of rotation fore and aft Yes,
Carthing, are the bed plates and frames of the generating plant efficiently earthed. Yes are the prime movers and their respective generators
m metallic contact Yes Main Switch Boards, where placed One in Port E.R. & One in Stbd. E.R.
If the generators and main switch board are not placed in the same compartment, is each generator provided with
fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard. Yes
witchboards, are they placed in accessible positions free from ind.
The second secon
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Vacanta of might dietectric strength and of permanently high insulation resistance
ace, are are conducting parts insulated from the slab with mica or micanite or other
on-hygroscopic insulating material, and the slab similarly insulated from its framework , is the non-hygroscopic insulating material of an approved
Yes accessibility of all parts Yes . Are the fittings as per Rule regarding:—spacing or shielding of live parts
, absence of fuses on back of board Yes , temperature rise of
nnibus 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
mitches No Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches
rout Breakers and Double Pole Knife Switches fitted with quick-break "Splash" switches.
re turbine driven generators fitted with emergency trip switch as per rule Yes
e-resisting material ANNING WINNEX NOW WANT WORK YOUR TO THE PROPERTY OF THE P
eters synchronising device for paralleling purposes. For compound machines is the ammeter connected on the opposite pole to equaliser connection
Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system
Witch Fuga and lamp teating and
these comply with the requirements of the Rules Yes
these comply with the requirements of the Rules are the fusible cutouts of an approved type. Yes have the reversed



current protection devices been tested under working conditions Yes Joint Boxes, Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule Yes
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the state of the s
If conductors are paper or varnished cambric insulated, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with insulating company d. Vee
with insulating compound Yes, or waterproof insulating tape Yes Cable Runs, are the cables fixed as far as possible in accessible positions
not exposed to drip or accumulation of water or oil, or to high temperature from boilers, steam pipes, uptakes or other hot objects, or to avoidable risk of me-
chanical damage Yes Are cables in machinery spaces, galleys, laundries, bathrooms and lavatories lead covered or run in conduit Lead Covere
Support and Protection of Cables, state how the cables are supported and protected On perforated trays for cable main runs e
Steel conduit through magazines, with metal cases fitted over same where necessary.
If cables are run in wood casings, are the casings and caps secured by screws, are the cap screws of brass, are the cables run in
separate grooves If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VIII Yes
Refrigerated Chambers, are the cables and fittings in accordance with the special requirements. Yes
Joints in Cables, state if any, and how made, insulated, and protected No Joints in cables
Watertight Glands and Deck Tubes, are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands
Yes Bushes in Beams and Non-watertight Partitions, where unarmoured cables pass through beams and non-watertight partitions, are the
holes efficiently bushed Yes state the material of which the bushes are made Sheet lead
Earthing Connections, state what earthing connections are fitted and their respective sectional areas. All cables are of the lead
cased variety, and are clipped to the hull throughout
are their connections made as per Rule Yes
Alternative Lighting, are the groups of lights in the propelling machinery space arranged as per Rule Yes Emergency Supply, state
position and method of control of the emergency supply #MXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Terminals and cabling for all vital services throughout the vessel. Usual Admiralty Practi
Navigation Lamps, are these separately wired Yes , controlled by separate witch and separate fuses Yes , are the fuses double pole Yes
are the switches and fuses grouped in a position accessible only to the officers on watch Yes
has each navigation lamp an automatic indicator as per Rule Yes . Secondary Batteries, are they constructed and fitted as per Rule Yes .
Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, watertight Yes, are any fittings placed in spaces in which goods are liable to be stacked in close proximity to them: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
are any fittings placed in spaces in which goods are liable to be stacked in close proximity to them; ************************************
That all at a second and the second
are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected Installations
wired and fitted in accordance with the Naval Manual of Explosive Regulations, how are the cables led  The lead-cased cables are all led in steel conduit
where are the controlling switches situated outside of these compartments and at least 2" clear of bulkheads of these actual compartments.
are all fittings suitably ventilated 188, are all switches and lampholders constructed wholly of non-ignitable, non-absorbent materials Yes.
Heating and Cooking Appliances, are they constructed and fitted as per Rule Yes, are air heaters constructed and fitted as per Rule Yes
*** Lamps, No. of One 10" S/P , whether fixed or portable F1xed , are their fittings as per Rule Yes
Are Lamps, other than searchlight lamps, No. of, are their live parts insulated from the frame or case, are their fittings as per Rule
Motors, are their working parts readily accessible Yes , are the coils self-contained and readily removable for replacement Yes ,
are the brushes, brush holders, terminals and lubricating arrangements as per Rule Yes, are the motors placed in well-ventilated compartments in which
inflammable gases cannot accumulate and clear of all inflammable material Yes , are they protected from mechanical injury and damage from
water, steam or oil Yes are their axes of rotation fore and aft Yes , if situated near unprotected woodwork or other combustible
material, are the motors of the totally enclosed, pipe ventilated, forced draught, drip or flame proof type Totally enclosed - Ventillated
, if not of this type, state distance of the combustible material horizontally or vertically above the motors and
have machines of over 100 BHP been inspected by the Surveyors during manufacture and testing Yes Control Gear and Resistances, are the generator
field and motor speed regulators, starters and controllers constructed and fitted as per Rule Yes Lightning Conductors, where lightning conductors
are required, are these fitted as per Rul Steel Mast Ships carrying Oil having a Flash Point less than 150°F. Have the special requirements of
the Rules been complied with regarding switches, joint boxes, section and distribution boards, protection of cables, method of distribution, lead of cables, lights
and fittings Yes are all fuses of the filled cartridge type No are they of an approved type Yes
If portable lamps for use in dangerous spaces are supplied, are they of a self-contained, battery-fed type approved by the Home Office. Yes
Spare Gear, if the pessel is for open sea service have spares been supplied as per Rule Yes

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	DESCRIPTION				PARTIC RATED AT	CULARS	OF GE	NERATIN	IG PLA	NT.	l water	E DRIVEN BY AN ADDRESS.
	GENERATOR.  MAIN	No. ef	Kilovatts	v <sub>0</sub>	its.	Amperes. 534	Rees. per Min.	Ste	DRIVEN BY	ine	Fuel Used	E DRIVEN BY AN INTERNAL COMBUSTION ENGINE.
September 1985	AUXILIARY EMERGENCY	2	60		AND DESCRIPTION OF PERSONS ASSESSED.	266	750	Die	The state of the s		Diesel	above 15
1	ROTARY TRANSFORMER											
			1 000	GENER.		LIGHTIN POSITION OF		HEATII		DUCTOR	S.	
i	DESCRIPT	710N.	No. per Pole.	Total Nomin Area per Pol Sq. Ins.	d	STRAND. Diameter.		AMPERES.		peroximate Length. d and Return.) Feet.	Insulated with	HOW PROTECTED
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	2 Auxiliary Gener		ı	0.4	61	0.09	266	464	100	& 180	Cambric	
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	TRANSFORMER (	GENERATOR.	Control of the contro									
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1	ower Circui	tP(S)	(P) 1	0.15	37	0.07	2 180	246	1	20		" "
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1000	Poop Lights					Re-		-				
	ARC LAMPS											
100	HEATERS					MOTO	R COND	UCTORS				
	DESCRIPTIO	N.	No. of Motors,	No. per Pole.	TORS. Total Nominal Area per Pole Sq. Ins.	COMPOS	SITION OF LAND. Diameter.	TOTAL MAXI	HUM CURRENT. ERES.	Approxima Length. (Lead and Ret	Company of the Compan	th How PROTECTED
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	(b) Main Motor Workshop Motor.								30-10-10			
	VENTILATING FANS (		(S)11 (P)12	100000000000000000000000000000000000000	0.15	CONTRACTOR OF THE PARTY OF THE	0.072	80 V	246 246	20	STREET, STREET	The second secon
: 1	Ventilatio	The second secon	3	1	0.15	37	0.072	120	246	50	Cambr	lead 1c Cased
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All Conductors are of annealed copper conforming to British Standard Specification No. 7 (or International Electrotechnical 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. Electrical Engineers. Date October 15th, 1945 Trkland, Shipyard Manager COMPASSES. 20 feet 24 feet Distance between electric NEWEYALDEN X moto X and steering compass The nearest cables to the compasses are as follows: Compass Corrector Coils are fitted on compasses in connection With De Gaussing Equipment. feet from steering compass. A cable carrying 20 Ampères 10 feet from standard compass 14 feet from steering compass. Ampères 20 feet from standard compass A cable carrying 12 25 feet from steering compass. Ampères 22 feet from standard compass. A cable carrying 41 Have the compasses been adjusted with and without the electric installation at work at full power. Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted. The maximum deviation due to electric currents was found to be \_\_\_\_\_\_ degrees on. course in the case of the standard \_course in the case of the steering compass. compass, and degrees on For CANADIAN VICKERS/LIMITED Date October 15th, 19 Builder's Signature. J. Kirkland, Shipyard Manager. Is this installation a duplicate of a previous case Yes 11 so; state name of vessel CN 948 General Remarks (State quality of workmanship, opinions as to class, &c. This Electrical Installation has been ) fitted on board this vessel under Special Survey in accordance with the Approved Plens and Specifications forwarded by the The workmanship and materials are good Megger tests carried out and in order Copies of Generator Test Certificates attached hereto. hotel FRM 14.12.45 Total Capacity of Generators 360 Kilowatts. The amount of Fee ... x 140 Surveyor to Lloyd's Register of Shipping. Travelling Expenses (if any) & Jududed When received. Committee's Minute FRI. 21 DEC 1945 Ser F.E. machy . npt. Assigned LR-FAF-TB16-71 2/2