

Cables: Single, twin, concentric, or multicore Single are the cables insulated and protected as per Tables IV or V of the Rules Yes.

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load 2 volts.

Cable Sockets and other connections, are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets. Yes.

Paper Insulated Cables. If cables are paper covered, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with insulating compound —.

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 mechanical damage. Yes.

Support and Protection of Cables, state how the cables are supported and protected. LIGHTING CABLES: L.C. & A in Eng. Room,
Lead Covered in Accommodation with brass clips. FORECASTLE LIGHTING MAIN, V.I.R. in Pipes. POWER CABLES: L.C.B. in Pipes.

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, if lights are fitted, are the cables and fittings in accordance with the special requirements —.

Joints in Cables, state if any, and how made, insulated, and protected. None made.

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 Lead.

Earthing Connections, state what earthing connections are fitted and their respective sectional areas —.
are their connections made as per Rule —.

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 and how the generator is driven —.

Navigation Lamps, are these separately wired —, controlled by separate switch and separate fuses —, are the fuses double pole —.
are the switches and fuses grouped in a position accessible only to the officers on watch —.
has each navigation lamp an automatic indicator as per Rule —.

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; if so, how are they protected —.
are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected —.
how are the cables led —.
where are the controlling switches situated —.

Searchlight Lamps, No. of —, whether fixed or portable —, are their fittings as per Rule —.

Arc 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 —, if not of this type, state distance of the combustible material horizontally or vertically above the motors — and —.

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 Rule —.

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 —.
If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office —.

PARTICULARS OF GENERATING PLANT.									
DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY		WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Amps.	Revs. per Min.			Fuel Used.	Flash Point of Fuel.
LIGHTING MAIN	1	0.58	12/14	48	—	Main Engine (CHAIN-DRIVEN)		—	—
LIGHTING AUXILIARY	1	0.58	12/14	48	—	Auxiliary Engine (Ditto)		—	—
EMERGENCY POWER	1	19	220	87	625	Twin Cyl. Diesel Engine.		—	—
ROTARY TRANSFORMER									

DESCRIPTION.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT. AMPERES.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
	No. per Pole.	Total Effective Area per Pole Sq. Ins.	No.	Diameter.	In Circuit.	Rule.			
LIGHTING MAIN GENERATOR	1	0.03960	19	.052	32	64	42	V.I.R.	Lead Covered & Armoured
EQUALISER CONNECTIONS	1	0.03960	19	.052	32	64	62	V.I.R.	" " "
LIGHTING AUXILIARY GENERATOR	1	0.07500	19	.072	37	97	45	V.I.R.	" " "
EMERGENCY GENERATOR									
ROTARY TRANSFORMER MOTOR									
ENGINE ROOM	1	0.00299	3	.036	5	12	16	V.I.R.	" " "
ROOM	1	0.00299	3	.036	4	12	16	V.I.R.	" " "
AUXILIARY SWITCHBOARDS									
BATTERY	1	0.02214	7	.064	32	46	80	V.I.R.	" " "
ACCOMMODATION AFT.	1	0.00299	3	.036	4.5	12	56	V.I.R.	" " "
"	1	0.00299	3	.036	4.7	12	44	V.I.R.	" " "
"	1	0.00299	3	.036	4.9	12	40	V.I.R.	" " "
"	1	0.00299	3	.036	4.0	12	34	V.I.R.	" " "
" FORE.	1	0.00701	7	.036	4.9	24	240	V.I.R.	RUN IN PIPING.
WIRELESS									
SEARCHLIGHT									
MASTHEAD LIGHT									
SIDE LIGHTS									
COMPASS LIGHTS									
STERN POOP LIGHTS									
CARGO LIGHTS									
ARC LAMPS									
HEATERS									

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 Effective 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										
WINCH, FORWARD	1	1	0.03960	19	.052	48.5	64	246	V.I.R.	L.C.S.B. RUN IN PIPING.
WINCH, AFT	1	1	0.03960	19	.052	48.5	64	117	V.I.R.	" " " " "
STEERING GEAR—										
(a) MOTOR GENERATOR										
(b) MAIN MOTOR										
WORKSHOP MOTOR										
VENTILATING FANS										

All Conductors are of annealed copper conforming to British Standard Specification No. 7.
 The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.
 The foregoing is a correct description.

R. & W. HAWTHORN, LESLIE & CO. LIMITED
R. W. Hawthorn

Electrical Engineers.

Date



COMPASSES.

Distance between electric generators or motors and standard compass —
 Distance between electric generators or motors and steering compass 10 Feet
 The nearest cables to the compasses are as follows:—
 A cable carrying 0.9 Ampères feet from standard compass on the feet from steering compass.
 A cable carrying Ampères feet from standard compass feet from steering compass.
 A cable carrying Ampères feet from standard compass 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 degrees on course in the case of the standard compass, and nil. degrees on all course in the case of the steering compass.

R. & W. HAWTHORN, LESLIE & CO. LIMITED
R. W. Hawthorn

Builder's Signature.

Date



Is this installation a duplicate of a previous case no. If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c. The electric instⁿ has been done under survey. & on completion was tested as required by the Rules & found to satisfactory.

It is submitted that
 this vessel is eligible for
 THE RECORD
Elec. Light
24
25/1/34.

Total Capacity of Generators 20 Kilowatts.

The amount of Fee ... £ 17 : 10 : { When applied for, 9. 1. 34
 Travelling Expenses (if any) £ : : { When received, 11. 1. 34

W. T. Badger
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elec. Lt.

Am. 9.30. — Treasurer.
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)



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