

for small areas The German Standards have been applied generally

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

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load *Light 3 Volts, Power 2.5 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 *none*

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 *supported by clips, where exposed to risk of damage covered with sheet iron*

If cables are run in wood casings, are the casings and caps secured by screws *Yes*, are the cap screws of brass *Yes*, are the cables run in separate grooves *Yes*. 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 *Yes*

Joints in Cables, state if any, and how made, insulated, and protected *water tight joint boxes*

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 & insulating material*

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 *Secondary battery fitted in deck house on boat deck*

Navigation Lamps, are these separately wired *Yes*, controlled by separate switch 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; if so, how are they protected *no*, are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected *no*, how are the cables led *are the cables led*, where are the controlling switches situated *are the controlling switches situated*

Searchlight Lamps, No. of *1*, whether fixed or portable *Suez Channel*, are their fittings as per Rule *Yes*

Arc Lamps, other than searchlight lamps, No. of *1*, 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 *are they of this type, state distance of the combustible material horizontally or vertically above the motors* and *are they of this type, state distance of the combustible material horizontally or vertically above the motors*

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 *Steel masts*

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 *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.	Ampères.	Revs. per Min.			Fuel Used.	Flash Point of Fuel.
MAIN	3	390	225	1734	380	Aux. Oil Engines		Diesel Oil	170°F
AUXILIARY									
EMERGENCY									
ROTARY TRANSFORMER	none								

GENERATOR, LIGHTING AND HEATING CONDUCTORS.									
DESCRIPTION.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
	No. per Pole.	Total Effective Area per Pole Sq. Ins. Sq. In.	No.	Diameter.	In Circuit.	Rule.			
MAIN GENERATOR	2	300	91	2.05	575 each	620	30-45-60		
EQUALISER CONNECTIONS									
AUXILIARY GENERATOR									
Second Battery EMERGENCY GENERATOR	1	50	50	19	1.83	100	120		
ROTARY TRANSFORMER									
ENGINE ROOM Switchboard	1	70	27	1.55	100	125	40		
Boiler Room Emergency Lamp	1	10	19	.82	35	37	40		
AUXILIARY SWITCHBOARDS									
Fore Ship	1	6	19	.64	10	30	100		
Bridge Deck	1	6	19	.64	16	30	120		
Officers accomod.	1	16	19	1.04	40	48	100	Rubber	Lead covered & armoured
Aft Ship	1	10	19	.82	30	37	140		
Saloons	1	6	19	.64	20	22	100		
Accommodation Lamp	1	4	19	.52	20	22	120		
Pl Trans. crane in	1	10	19	.82	25	37	30		
St. Engine room	1	10	19	.82	25	37	30		
Fuel Oil Heater 3-KH	1	4	19	.52	20	22	20		
Hot Water Boiler	1	2.5	1	1.78	10	16	80		
	1	16	19	1.04	35	48	110		
WIRELESS	1	25	19	1.3	60	62	130		
SEARCHLIGHT	1	15	1	1.38	5	8	90		
MASTHEAD LIGHT	1	15	1	1.38	5	8	90		
SIDE LIGHTS	1	15	1	1.38	5	8	90		
COMPASS LIGHTS	1	15	1	1.38	5	8	90		
POOP LIGHTS	1	15	1	1.38	5	8	90		
CARGO LIGHTS	1	15	1	1.38	5	8	90		
ARC LAMP	1	2.5	1	1.78	10	16	60		
HEATERS	1	16	19	1.04	40	48	60		

MOTOR CONDUCTORS.									
DESCRIPTION.	No. of Motors.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT.		Approximate Length. (Lead and Return.) Feet.	Insulated with
		No. per Pole.	Total Effective Area per Pole Sq. Ins. Sq. In.	No.	Diameter.	In Circuit.	Rule.		
BALLAST PUMP	1	1	50	19	1.53	95	100	35	
MAIN BILGE LINE PUMPS	1	1	25	19	1.3	48.5	62	60	
GENERAL SERVICE PUMP	1	1	25	19	1.3	48.5	62	70	
Fuel Oil Service EMERGENCY BILGE PUMP	1	1	25	19	1.3	48	62	40	
SANITARY PUMP	1	1	4	19	.52	11.3	22	60	
2 CIRC. SEA WATER PUMPS	1 each	1	120	61	1.59	171 each	175	40-40	
CIRC. FRESH WATER PUMPS	1	1	10	19	.82	29	37	80	
AIR COMPRESSOR	1	1	25	19	1.3	52	62	30	
FRESH WATER PUMP	1	1	2.5	1	1.78	6.5	16	80	
2 ENGINE TURNING GEARS	1 each	1	16	19	1.04	46.5 each	48	100-120	
ENGINE REVERSING GEAR									
2 LUBRICATING OIL PUMPS	1 each	1	185	61	1.97	232 each	230	40-40	
OIL FUEL TRANSFER PUMP	1	1	95	37	1.81	180	180	60	Rubber
WINDLASS	1	1	185	61	1.97	232	230	150	Lead covered & armoured
WINCHES, FORWARD	1	4	1	120	61	1.59	112	175	150
Hatch No. 2	4	1	150	61	1.77	204	205	120	
WINCHES, AFT	2	2	1	70	37	1.55	120	125	100
	4	1	150	61	1.77	204	205	80	
	8	2	1	70	37	1.55	120	125	120
STEERING GEAR									
(a) MOTOR GENERATOR	1	1	50	19	1.53	90	100	120	
(b) MAIN MOTOR	1	1	50	19	1.53	90	100	120	
WORKSHOP MOTOR	3	1	2.5	1	1.78	12.8	16	80	
VENTILATING FANS	1	1	4	19	.52	11.3	22	100	
Mooring Winch	1	1	35	19	1.43	80	80	180	
Deep Tank Pump	1	1	95	37	1.81	186	180	60	
" " "	1	1	95	37	1.81	186	180	70	
2 Lub. Oil Separators	1 each	1	2.5	1	1.78	10.6	16	60-60	
2 Fuel " "	1 each	1	2.5	1	1.78	10.6	16	60-60	
1 small Fresh Water pump, fitted in galley	1	1	2.5	1	1.78	10.6	16	120	

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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.

The Builders are the —

Electrical Engineers.

Date

COMPASSES.

Distance between electric generators or motors and standard compass ~ 70 m

Distance between electric generators or motors and steering compass ~ 75 m

The nearest cables to the compasses are as follows:—

A cable carrying 0.3 Ampères close to feet from standard compass close to feet from steering compass.

A cable carrying " Ampères close to feet from standard compass close to feet from steering compass.

A cable carrying " Ampères close to feet from standard compass close to 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 course in the case of the standard compass, and m degrees on course in the case of the steering compass.

Deutsche Werke Kiel
Aktiengesellschaft

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.)

Material and workmanship of this electric installation are of good quality. As the conductors used are of the German Standards the Society's Rules re conductors have been applied generally. This installation having been fitted in accordance with the approved plans, the Secretary's letters and otherwise in conformity with the requirements of the Rules under Special Survey is eligible in my opinion for record of "Electric Light"

It is submitted that
this vessel is eligible for
THE RECORD. Elec. Light.

24/1/34.

Total Capacity of Generators 390. Kilowatts.

The amount of Fee ... £ 41 : 5 : 0
When applied for, 14/1/19.34
When received, 8.2.19.34
Travelling Expenses (if any) £ - : - : -

J. A. ...
Surveyor to Lloyd's Register of Shipping.

Committee's Minute.

FRI. 26 JAN 1934

TUE. 3 JUL 1934

Assigned

TUE 16 OCT 1934

Im. 8.30.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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