

RETAIN

Insulation of Cables, state type of cables, single or twin, ^{Single, 3 core} are the cables insulated and protected as per Tables III or IV of the Rules yes

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load 3.7 volts

Cable Sockets and other connections, are the ends of all cables having a sectional area of 0.007 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 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 mechanical damage Lighting cables run in troughing under fore & aft gangway, troughing filled with bitumen

Support and Protection of Cables, state how the cables are supported and protected cable clipped to Bulkhead trays with galvanized iron clips

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 VI 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 Positions, 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 Dibre

Earthing Connections, state what earthing connections are fitted and their respective sectional areas none

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 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, are separate screens provided for the use of oil and electric side lights yes

are separate oil lanterns provided for the mast head lights and side lights 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 none

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected yes in pump room, protected by stout glass bowl

in galvanized steel pipe wholly outside pump room.

where are the controlling switches situated underneath saloon in deck space

Searchlight Lamps, No. of 1, whether fixed or portable 1, 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 yes, are their fittings as per Rule yes

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 axis of rotation fore and aft (except steering gear motor)

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 yes

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 as per Rule yes

Lightning Conductors, where lightning conductors are required, are these fitted as per Rule On fore & aft 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 yes

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

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.
MAIN	2	120 K.V.A.	220	365	1000	Station Turbine through gearing		
AUXILIARY	1	10 K.W.	110	91	1440	A.C. Induction motor		
EMERGENCY	1	10 K.W.	110	91	340	Single cylinder steam engine		
ROTARY TRANSFORMER								

LIGHTING AND HEATING CONDUCTORS.

Ref. No.	DESCRIPTION.	No. of Conductors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Ampères.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	MAIN GENERATOR. POWER	3	.3024	37	.103	365	30	paper	b.c.a. & Braided
LIGHTING	ALTERNATE GENERATOR	2	.1009	19	.083	91	37	rubber	"
LIGHTING	EMERGENCY GENERATOR	2	.1009	19	.083	91	24	"	"
	ROTARY TRANSFORMER								
	AUXILIARY SWITCHBOARDS								
	ENGINE ROOM	2	.01	7	.044	13	50	"	"
	BOILER ROOM	2	.007	7	.036	7	156	"	"
	Saloon & hangation	2	.06	19	.064	58	58	"	"
	Aft Accommodation	2	.01	7	.044	21	80	"	"
	WIRELESS	2	.022	7	.064	-	595	"	"
	SEARCHLIGHT	2	.001	2	.029	1.12	158	"	"
	MASTHEAD LIGHT	2	.001	2	.029	1.12	36	"	"
	SIDE LIGHTS	2	.001	2	.029	.78	15	"	"
	COMPASS LIGHTS	2	.001	2	.029	1.12	36	"	"
	DOOR LIGHTS	2	.001	2	.029	1.12	36	"	"
	CARGO LIGHTS	2	.003	70	.0076	3.36	60	"	Red Dyre Hex
	ARC LAMPS								
	HEATERS								

RETAIN

MOTOR CONDUCTORS.

Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Ampères.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	BALLAST PUMP						3 core		
	MAIN BILGE LINE PUMPS	1	.007	7	.036	17.3	53	paper	b.c.a. & Braided
	GENERAL SERVICE PUMP								
	EMERGENCY BILGE PUMP								
	SANITARY PUMP								
	CIRC. SEA WATER PUMPS	2	.1009	19	.083	125	49	"	"
	CIRC. FRESH WATER PUMPS								
	AIR COMPRESSOR								
	FRESH WATER PUMP								
	ENGINE TURNING GEAR								
	ENGINE REVERSING GEAR								
	LUBRICATING OIL PUMPS	1	.007	7	.036	19	31	"	"
	OIL FUEL TRANSFER PUMP								
	WINDLASS								
	WINCHES, FORWARD								
	WINCHES, AFT								
	STEERING GEAR	1	.022	7	.064	52	45	"	"
	WORKSHOP MOTOR								
	FORCED DRAUGHT FANS	2	.022	7	.064	70	44	"	"
	MAIN FEED PUMP	1	.022	7	.064	52	46	"	"
	M/G LIGHTING SET	1	.022	7	.064	45	17	"	"
	REFRIGERATOR	1	.007	7	.036	26	14	"	"
	DE FAVAL PUMP	1	.007	7	.036	5	34	rubber	"
	BULKHEAD AND SUPPLY	2	.007	7	.036	8.5	20	"	"

W351-0066 2/2

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.

P. PRO. THE SUNDERLAND FORGE & ENGINEERING CO. LTD.

Electrical Engineers.

Date 1st December 1922

COMPASSES.

Distance between electric generators or motors and standard compass *260 feet*
 Distance between electric generators or motors and steering compass *47 "*
 The nearest cables to the compasses are as follows:—
 A cable carrying *.28* Amperes *on the forenoon* standard compass *7* feet from steering compass.
 A cable carrying *.28* Amperes *7* feet from standard compass *on the forenoon* steering compass.
 A cable carrying *6.6* Amperes *10* feet from standard compass *14* feet from steering compass.
 Have the compasses been adjusted with and without the electric installation at work at full power *With 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 *Yes*
 The maximum deviation due to electric currents was found to be *Nil* degrees on *any* course in the case of the standard compass, and *Nil* degrees on *any* course in the case of the steering compass.

THE GALSON SHIPBUILDING & ENGINEERING CO. LD

Builder's Signature.

Date

Is this installation a duplicate of a previous case *No*. If so, state name of vessel *S.S. British Merchant.*

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

This installation has been fitted on board under special survey. Tested under full working conditions found satisfactory in every way. The workmanship, in my opinion is satisfactory.

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

Elec. Light

AMB
27/12/22

Total Capacity of Generators *202* Kilowatts

The amount of Fee ... £ *36 : 11* : *Sunder*
 1/2 fee due Gls. *12/22*
 Travelling Expenses (if any) £ *2 : 2* : *See debit book*
 due Gls. }

J. Shankin & J. Sella
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute *GLASGOW 19 DEC 1922*

Assigned *Elec. Light*



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Im. 322.—Transfer.
 (The Surveyors are requested not to write on or below the space for Committee's Minutes.)

18.12.22