





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

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

If the cables are insulated otherwise than as per Rule, are they of an approved type Yes Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load nil

Cable Sockets, are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets. Yes Paper Insulated and Varnished Cambric Insulated Cables.

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 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 mechanical damage. Yes Are cables in machinery spaces, galleys, laundries, bathrooms and latrines lead covered or run in conduit Lead Covered & Drained with Drainage

Support and Protection of Cables, state how the cables are supported and protected Supported on iron clamps & lead covered with drainage

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, are the cables and fittings in accordance with the special requirements Yes

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

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 Generator to Dynamo

Sealed with Soldered Sockets & 19/064 cable 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 and how the generator is driven Yes

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 Heavy Iron

Guards & thick Glass are any fittings placed in spaces where inflammable dust or gases are liable to be present, if so, how are they protected Heavy Iron

Guards & thick Glass how are the cables led Through Decks & clipped to Deck

where are the controlling switches situated Engine Room & Deck & Bridge for Deck Head

are all fittings suitably ventilated Yes 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

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

Arc Lamps, other than searchlight lamps, No. of —, are their live parts insulated from the frame or case —, are their fittings as per Rule Yes

Motors, are their working parts readily accessible —, are the coils self-contained and readily removable for replacement — are the brushes, brush holders, terminals and lubricating arrangements as per Rule — are the motors placed in well-ventilated compartments in which inflammable gases cannot accumulate and clear of all inflammable material — are they protected from mechanical injury and damage from water, steam or oil — are their axes of rotation fore and aft — 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 —

have machines of over 100 BHP been inspected by the Surveyors during manufacture and testing — Control Gear and Resistances, are the generator field and motor speed regulators, starters and controllers constructed and fitted as per Rule — 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 — are all fuses of the filled cartridge type — are they of an approved type —

If portable lamps for use in dangerous spaces are supplied, are they of a self-contained, battery-fed type approved by the Home Office —

Spare Gear, if the vessel is for open sea service have spares been supplied as per Rule —

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 ...	1	8	110	43	520	Durand & Co.	Coal	—	
AUXILIARY ...						—	—	—	
EMERGENCY ...						—	—	—	
ROTARY TRANSFORMER						—	—	—	

  

GENERATOR, LIGHTING AND HEATING CONDUCTORS.										
DESCRIPTION.	No. per Pole.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
		Total Nominal Area per Pole Sq. Ins.	No.	Diameter.	Circuit.	Rule.				
MAIN GENERATOR ...	1		19	.064	50	83	24	438	Lead	Lead
EQUALISER CONNECTIONS ...										
AUXILIARY GENERATOR ...										
EMERGENCY GENERATOR ...										
ROTARY MOTOR TRANSFORMER GENERATOR ...										
ENGINE ROOM ...	1		1	.036	16	24	42			
BOILER ROOM ...										
AUXILIARY SWITCHBOARDS ...										
ACCOMMODATION ...	1		1	.044	18	31	148			
			3	.036	6	12	255			
WIRELESS ...	1		1	.036	10	24	148			
SEARCHLIGHT ...										
MASTHEAD LIGHT ...										
SIDE LIGHTS ...										
COMPASS LIGHTS ...										
POOP LIGHTS ...										
CARGO LIGHTS ...										
ARC LAMPS ...										
HEATERS ...										

  

MOTOR CONDUCTORS.										
DESCRIPTION.	No. of Motors.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT.		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 ...										



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.

RICHARD PICKERSGILL & SONS, LTD.

Electrical Engineers.

Date August 13<sup>th</sup> 1936

#### COMPASSES.

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

60'

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

55'

The nearest cables to the compasses are as follows:—

A cable carrying 30 Watts Ampères feet from standard compass 4 feet from steering compass.

A cable carrying " Ampères feet from standard compass 8 feet from steering compass.

A cable carrying 4 Ampères 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

Y<sub>h</sub>

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

Y<sub>h</sub>

The maximum deviation due to electric currents was found to be 4<sup>th</sup> degrees on course in the case of the standard compass, and 4<sup>th</sup> degrees on each course in the case of the steering compass.

For SMIT H'S DOCK COMPANY LTD

W. G. Evans

Builder's Signature.

Date 18<sup>th</sup> August 1936

Is this installation a duplicate of a previous case

Y<sub>h</sub>

If so, state name of vessel

Mildenhall

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

The materials and workmanship are good.  
This electric light installation has been fitted aboard under special survey and in accordance with the Rules. It has been tested under working conditions with satisfactory results and is, in my opinion, suitable for a classed vessel.

Total Capacity of Generators

8 Kilowatts.

The amount of Fee ...

£ 8-0-0

When applied for,

10-8-1936

Travelling Expenses (if any) £

:

2-10-1936

When received.

5/10

Surveyor to Lloyd's Register of Shipping

Committee's Minute

TUE. 25 AUG 1936

Assigned

See Mab. J.C. 15773



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