

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 core* are the cables insulated and protected as per Tables IV, V, X or XI of the Rules *Table IV*.

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 *5 volts*.

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 lavatories lead covered *lead covered*.

Support and Protection of Cables, state how the cables are supported and protected *The cables are supported by secured clips and where necessary protected by steel tube & screws*.

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 *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 *lead*.

Earthing Connections, state what earthing connections are fitted and their respective sectional areas *Yes*.

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 *Contained in gas tight fittings, the wiring enclosed in gas tight tubing*, are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected *Contained in gas tight fittings*, how are the cables led *enclosed in gas tight tubing*.

where are the controlling switches situated *In Saloon House and Forecastle*.

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 *Yes*, whether fixed or portable *Yes*, are their fittings as per Rule *Yes*.

Arc Lamps, other than searchlight lamps, No. of *Yes*, 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 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 *Not situated near woodwork*, if not of this type, state distance of the combustible material horizontally or vertically above the motors *Yes* and *Yes*.

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 Rule *Yes*.

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 *Yes*, 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 vessel is for open sea service have spares been supplied as per Rule *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	80	220	364	400	Heavy oil engine.	Crude oil	F.P. above 150°	
AUXILIARY ...	2	115 Kw.	220		500	7.6 ATLAS Diesel 491 Fitted New.	5/47 Rot.	29886	Pont. Fed. 150°
EMERGENCY ...	One	90 Kw.	220		500	do. 308	do.	do.	CENTAC.
ROTARY TRANSFORMER	1	15	220/110	136	1500	Electromotor			

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 Nominal Area per Pole Sq. Ins.	No.	Diameter.	Circuit.	Rate.			
MAIN GENERATOR ...	2	2 x 120	37	2.03	364	764	30 - 42	Vulcanized	Lead covered and india rubber
EQUALISER CONNECTIONS ...	1	120	37	2.03		182	15 - 21	"	Steel wire armoured
AUXILIARY GENERATOR ...									
EMERGENCY GENERATOR ...									
ROTARY TRANSFORMER MOTOR ...	1	50	19	1.83	92	98	18	"	"
GENERATOR ...	1	95	19	2.52	136	148	20	"	"
ENGINE ROOM LIGHT ...	1	6	7	1.05	18	29	2	"	"
BOILER ROOM ...									
AUXILIARY SWITCHBOARDS ...									
WORKSHOP EL ...	1	16	7	1.70	46	49	83	"	"
TURNING GEAR ...	1	25	7	2.13	56	63	64	"	"
OIL PURIFIER & HEATER ...	1	50	19	1.83	95	98	85	"	"
DECK FORECASTLE EL ...	1	10	7	1.35	17	38	165		
ACCOMMODATION STB. CREW ...	1	4	7	0.85	15	22	67	"	"
" PORT AFT OFFICER ...	1	4	7	0.85	15	22	67	"	"
" SALOON HOUSE ...	1	16	7	1.70	25	49	165	"	"
NAVIGATION ...	1	4	7	0.85	4	22	206	"	"
WIRELESS ...	1	6	7	1.05	10	29	194	"	"
SEARCHLIGHT ...	1	1.5	1	1.38	0.36	10	106 - 140	"	"
MASTHEAD LIGHT ...	1	1.5	1	1.38	0.36	10	36 - 36	"	"
SIDE LIGHTS ...	1	1.5	1	1.38	0.14	10	10	"	"
COMPASS LIGHTS ...	1	1.5	1	1.38	0.22	10	220	"	"
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
		No. Per Pole.	Total Nominal Area per Pole Sq. Ins.	No.	Diameter.	In Circuit.	Rate.		
BALLAST PUMP ...									
SANITARY PUMP ...	1	1	16	7	1.70	35	49	46	Vulcanized
MAIN BILGE LINE PUMPS ...									Lead covered and india rubber
GENERAL SERVICE PUMP ...									
EMERGENCY BILGE PUMP ...									
SANITARY PUMP ...									
OIL FUEL CIRC. STA. WATER PUMPS ...	1	1	2.5	7	0.67	8	16	10	"
CIRC. FRESH WATER PUMPS ...									
CO2 AIR COMPRESSOR ...	1	1	10	7	1.35	35	38	10	"
COOLING FRESH WATER PUMP R.M.C. ...	1	1	2.5	7	0.67	8	16	25	"
ENGINE TURNING GEAR ...	2	1	16	7	1.70	28	49	10	"
ENGINE REVERSING GEAR ...									
COOLING WATER & LUBRICATING OIL PUMPS ...	2	1	150	37	2.27	175	205	81	"
OIL FUEL TRANSFER PUMP ...	1	1	16	7	1.70	35	49	76	"
WINDLASS ...									
WINCHES, FORWARD ...									
WINCHES, AFT ...									
STEERING GEAR—									
(a) MOTOR GENERATOR ...	1	1	50	19	1.83	70	98	108	"
(b) MAIN MOTOR ...	1	1	4	7	0.85	13	22	10	"
WORKSHOP MOTOR ...									
VENTILATING FANS ...									
LUBR. OIL PURIFIER ...	1	1	4	7	0.85	10	22	10	"
FUEL " " HEATER ...	1	1	4	7	0.85	10	22	10	"
LUBR. " " ...	2	2 x 6	7	1.05	40	58	10	"	"
GRINDING MACH. ...	1	1	1.5	1	1.38	15	10	10	"

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.

AKTIESELSKABET
p.pa. BURMEISTER & WAINSKIN- & SKIBSBYGGERI

Electrical Engineers.

Date

March 1935

COMPASSES.

Distance between electric generators or motors and standard compass 10 Generators 76 ft. 10 Motors 9 ft.

Distance between electric generators or motors and steering compass " " 78 " " " 7 "

The nearest cables to the compasses are as follows:—

A cable carrying 4 Amperes 3 feet from standard compass 5 feet from steering compass.

A cable carrying 0.14 Amperes 6 lamp feet from standard compass and 10 feet from steering compass.

A cable carrying Amperes 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 0 degrees on all course in the case of the standard compass, and 0 degrees on all course in the case of the steering compass.

AKTIESELSKABET
p.pa. BURMEISTER & WAINSKIN- & SKIBSBYGGERI

Builder's Signature.

Date

March 1935

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 whole electric lighting and power installation as above described has been fitted in accordance with the Rules, the approved and amended plan and the requirements contained in the Secretary's letter.

The material and the workmanship are of good description. The electric installation has been tested under full power working conditions and found satisfactory.

Notice
18/3/35

Total Capacity of Generators 160 Kilowatts.

The amount of Fee ...

£ 772.80

When applied for,

13.3.1935

Travelling Expenses (if any) £

When received,

2/5/35

L. Clausen & P. Langkilde Jensen
Surveyors to Lloyd's Register of Shipping.

Committee's Minute

TUE. 26 MAR 1935

Assigned

see machy 28