

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 & twin* 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*.

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 lavatories lead covered or run in conduit *lead covered*.

Support and Protection of Cables, state how the cables are supported and protected *The cables are supported by screwed clips and where necessary protected by steel tubes or screens.*

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; the wiring enclosed in gas-tight tubing*.

enclosed in gas-tight tubing, how are the cables led *enclosed in gas-tight tubing*.

where are the controlling switches situated *In saloonhouse and forecabin*.

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 fitted 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.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN	2	80	220	364	400	Heavy oil engines	Crude oil	F.P. above 150° F.
AUXILIARY								
EMERGENCY								
ROTARY TRANSFORMER	1	15	220/110	136	1500	Electromotor.		

GENERATOR, LIGHTING AND HEATING CONDUCTORS.

DESCRIPTION.	CONDUCTORS.			COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT AMPERES.		Approximate Length (Lead and Return) Feet. H.	Insulated with	HOW PROTECTED.
	No. per Pole.	Total Nominal Area per Pole Sq. Ins. H.	No.	Diameter.	Circuit.	Rule.				
MAIN GENERATOR	2	2x120	37	2.03	364	364	30 - 42		Vulcanized	Lead covered and steel wire armoured
EQUALISER CONNECTIONS	1	120	37	2.03		182	15 - 21		insul. rubb.	
AUXILIARY GENERATOR										
EMERGENCY GENERATOR										
ROTARY TRANSFORMER MOTOR	1	50	19	1.83	92	98	18		"	"
ENGINE ROOM	1	95	19	2.52	136	148	20		"	"
BOILER ROOM	1	6	7	1.05	18	29	2		"	"
AUXILIARY SWITCHBOARDS										
WORKSHOP EC	1	16	7	1.70	46	49	83		"	"
TURNING GEARS	1	25	7	2.13	56	63	64		"	"
OIL PURIFIER EC	1	50	19	1.83	95	98	85		"	"
DECK, FORECASTLE	1	10	7	1.35	17	38	165		"	"
ACCOMMODATION STB. RET. CREW	1	4	7	0.85	15	22	67		"	"
" PORT. OFFICERS	1	4	7	0.85	15	22	67		"	"
" SALOONHOUSE	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										
MASTHEAD LIGHT	1	1.5	1	1.38	0.36	10	106 - 140		"	"
SIDE LIGHTS	1	1.5	1	1.38	0.36	10	26 - 26		"	"
COMPASS LIGHTS	1	1.5	1	1.38	0.14	10	10		"	"
POOP LIGHTS	1	1.5	1	1.38	0.22	10	220		"	"
CARGO LIGHTS										
ARC LAMPS										
HEATERS										

MOTOR CONDUCTORS.

DESCRIPTION.	No. of Motors.	CONDUCTORS.			COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT AMPERES.		Approximate Length (Lead and Return) Feet. H.	Insulated with	HOW PROTECTED.
		No. per Pole.	Total Nominal Area per Pole Sq. Ins. H.	No.	Diameter.	In Circuit.	Rule.				
BALLAST PUMP											
SANITARY AND MAIN BILGE LINE PUMPS	1	1	16	7	1.70	35	49	46	Vulcanized	Lead covered and steel wire armoured.	
GENERAL SERVICE PUMP											
EMERGENCY BILGE PUMP											
SANITARY PUMP											
CIRC. SEA WATER PUMPS	1	1	2.5	7	0.67	8	16	10	"	"	
CIRC. FRESH WATER PUMPS											
CO ₂ AIR COMPRESSOR	1	1	10	7	1.35	35	38	10	"	"	
FRESH WATER PUMP P.H.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											
(b) MAIN MOTOR	1	1	50	19	1.83	70	98	108	"	"	
WORKSHOP MOTOR	1	1	4	7	0.85	13	22	10	"	"	
VENTILATING FANS											
LUBRICATING OIL PUMP	1	1	4	7	0.85	10	22	10	"	"	
FUEL OIL PURIFIER	1	1	4	7	0.85	10	22	10	"	"	
" HEATER	2	2x6	7	1.05	40	58	10	"	"	"	
LUBR. " "	2	2x6	7	1.05	40	58	10	"	"	"	
GRINDING MACHINE	1	1	1.5	1	1.38	1.5	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 & WAINSMASKIN- OG SKIBSBYGGERI

Electrical Engineers.

Date

COMPASSES.

Distance between electric generators or motors and standard compass *To Generator 76 ft. To Motor 9 ft.*

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

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 in* 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.

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Is this installation a duplicate of a previous case *yes*. If so, state name of vessel *"MOSVOLD" of Torshavn*
(Copenhagen Report No 9558)

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 plan and the Secretary's letter E dated 15th November 1934.

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

*Noted
Yours
8.7.35*

Total Capacity of Generators *160* Kilowatts.

The amount of Fee ... *£ 772.80* When applied for, *57.19.35*

Travelling Expenses (if any) £ : : *26.8.35* When received, *26/8*

Liljehoff Lillausen
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 12 JUL 1935

FRI. 23 AUG 1935

Assigned

*See minute on
78 Rpt.*

FRI. 28 FEB 1936

2m534.—Transfer.
The Surveyors are requested not to write on or below the space for Committee's Minute.