

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office - 9 NOV 1926

Date of writing Report Oct 30 1926 When handed in at Local Office Nov 5 1926 Port of Trieste

No. in Survey held at Moufalone Date, First Survey Sept 8 Last Survey Oct 23 1926
Reg. Book. 89808 on the T. S. S. Lucita (Number of Visits five)

Built at Moufalone By whom built Carit. Nav. Triest. Yard No. 180 When built 1926
Tons { Gross 2604
Net 1136

Owners Curacaoische Scheepvaart Maats. Port belonging to Willemstad

Electric Light Installation fitted by Carriere Navale Triestine Contract No. _____ When fitted _____
Generator made by Sunderland Forge & Eng. Co. Ltd.

System of Distribution Two wires

Pressure of supply for Lighting 110 volts, Heating 1/2 volts, Power 1/2 volts.

Direct or Alternating Current, Lighting Direct Power 1/2

If alternating current system, state frequency of periods per second 1/2

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off yes

Generators, do they comply with the requirements regarding rating yes, are they compound wound yes

are they over compounded 5 per cent. _____, if not compound wound state distance between each generator 1/2

Where more than one generator is fitted are they arranged to run in parallel 1/2, is an adjustable regulating resistance fitted in series with each shunt field yes

Are all terminals accessible, clearly marked, and furnished with sockets yes, are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched yes Are the lubricating arrangements of the generators as per Rule yes

Position of Generators In Engine Room platform

is the ventilation in way of the generators satisfactory yes, are they clear of all inflammable material yes

if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators 1/2 and 1/2, are the generators protected from mechanical injury and damage from water, steam or oil yes

are their axes of rotation fore and aft yes

Earthing, are the bedplates and frames of the generating plant efficiently earthed yes are the prime movers and their respective generators in metallic contact yes

Main Switch Boards, where placed near generator

If the generators and main switchboard are not placed in the same compartment, is each generator provided with a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard 1/2

Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes yes

are they protected from mechanical injury and damage from water, steam or oil yes, if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards 1/2 and 1/2

are they constructed wholly of durable, non-ignitable non-absorbent materials yes, is all insulation of high dielectric strength and of permanently high insulation resistance yes, if semi-insulating material is used, are all conducting parts insulated from the slab with mica or micaite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework yes

and is the frame effectively earthed yes Are the fittings as per Rule regarding: - spacing or shielding of live parts yes, accessibility of all parts yes, absence of fuses on back of board yes, proportion of omnibus bars yes, individual fuses to voltmeter, pilot or earth lamp yes, connections of switches yes

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches Double pole

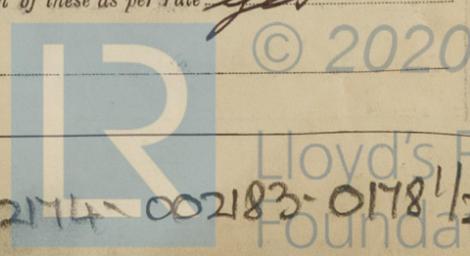
with switch for generator and all outgoing circuits

Instruments on main switchboard 1 ammeters 1 voltmeters 1/2 synchronising device for paralleling purposes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system Lamp to each pole

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules 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 or V of the Rules yes

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

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 armoured cables supported by clips

Lead covered cables on deck enclosed in tubes

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 VIII 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 in gas-tight junction 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

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 none

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 none

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and where or 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 /

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected gas-tight

how are the cables led from outside in the gas-tight globe

where are the controlling switches situated on deck

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

Arc Lamps, other than searchlight lamps, No. of /, 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 /

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 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 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	1	8	110	73	380	Steam engine		
AUXILIARY	1	10	110	91		"	fitting for dynamo purposes	
EMERGENCY							off 841	
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 Amps.	Approximate Length (Lead and Return) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	MAIN GENERATOR	2	0.06	19	0.064	73	14	rubber	armoured
	EQUALISER CONNECTIONS								
	AUXILIARY GENERATOR								
	EMERGENCY GENERATOR								
	ROTARY TRANSFORMER								
	AUXILIARY SWITCHBOARDS								
1	ENGINE ROOM								
1	BOILER ROOM	2	0.007	7	0.036	15	144	rubber	armoured
2	Accommodation Port Side	2	0.007	7	0.036	17	170	rubber	armoured lead cover.
3	Accommodation Starboard	2	0.007	7	0.036	21	170	rubber	armoured lead cover.
4	Accommodation Amidship	2	0.007	7	0.036	17	520	rubber	armoured lead cover in tubes.
5	Navigation	2	0.002	3	0.029	4	225	rubber	armoured lead cover in tubes.
8	Battery Lamp Charging Board	2	0.007	7	0.036			rubber	armoured
6	WIRELESS	2	0.007	7	0.036	9	110	rubber	armoured
	SEARCHLIGHT								
5	MASTHEAD LIGHT	2	0.002	3	0.029	0.50		rubber	armoured tube
5	SIDE LIGHTS (2)	2	0.002	3	0.029	0.50		rubber	armoured
3	COMPASS LIGHTS	2	0.002	3	0.029	0.20		rubber	lead
5	POOP LIGHTS	2	0.002	3	0.029	0.50		rubber	arm. & tube
4	CARGO LIGHTS	2	0.002	3	0.029	3.6		rubber	armoured tube
	ARC LAMPS								
	HEATERS								

MOTOR CONDUCTORS.

Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current Amps.	Approximate Length (Lead and Return) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	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								
7	Galley Motor	1	0.007	7	0.036	6	130	rubber	armoured

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.

OFFICINE ELETTROMECCANICHE

Electrical Engineers.

Date 30. Nov 1926

COMPASSES.

Distance between electric generators or motors and standard compass 150'

Distance between electric generators or motors and steering compass 150'

The nearest cables to the compasses are as follows:—

A cable carrying 4 Amperes 13 feet from standard compass 10 feet from steering compass.

A cable carrying 0.2 Amperes in the feet from standard compass in the 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 no

The maximum deviation due to electric currents was found to be degrees on course in the case of the standard compass, and degrees on course in the case of the steering compass.

CANTIERE NAVALE TRIESTINO

Builder's Signature

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.)

This installation has been made in accordance with the Rules for electric fitting and special requirements for ships carrying oil having a flash point less than 150°F. The material and workmanship are good and under test was found satisfactory.

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

Signature and date 10/11/26

Total Capacity of Generators 8 Kilowatts.

The amount of Fee ... £ 888.- When applied for, 6/11/19.26 Travelling Expenses (if any) £ v When received, 20.12.26

Signature of Surveyor

Committee's Minute FRI. 12 NOV 1926

Assigned Elec Light

FRI. 19 NOV 1926

Im. 126.—Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minute.)



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