

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report *Oct 10 1922* When handed in at Local Office *Oct 20th 1922* Port of *Swania* Received at London *SAT. OCT. 21 1922*

No. in Survey held at *Pembroke Dock* Date, First Survey *July 20th* Last Survey *Sept 19 1922*
Reg. Book. (Number of Visits *8*)

on the *A. OLEANDER*

Built at *Pembroke Dockyard* By whom built *H.M. Dockyard* Yard No. When built *Oct 1922*

Owners *The Admiralty* Port belonging to

Electric Light Installation fitted by *Pembroke Dockyard* Contract No. When fitted *Oct 1922*

System of Distribution *Radiating*

Pressure of supply for Lighting *100* volts, Heating *100* volts, Power *100* volts

Direct or Alternating Current, Lighting *Direct* Power *Direct*

If alternating current system, state frequency of periods per second

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 overload *Yes* ✓, are they compound wound *Yes* ✓
are they over compounded 5 per cent. *Yes* ✓, if not compound wound state distance between each generator

Where more than one generator is fitted are they arranged to run in parallel *No* ✓, is an adjustable regulating resistance fitted in series with each shunt field *No* ✓

Are all terminals accessible and clearly marked *Yes* ✓, are they so spaced or shielded that they cannot be accidentally earthed, or short circuited *Yes* ✓ Are the lubricating arrangements of the generators as per Rule *Yes* ✓

Position of Generators *After end of Engine Room No 2 Deck* ✓, 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 and, are the generators protected from mechanical injury and damage from water, steam or oil

are their axis 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 *After end of Engine Room No 2 Deck* ✓

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

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 and

are they constructed wholly of durable, incombustible 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 connected to one pole

insulated from the slab with mica or micanite and the slab similarly insulated from its framework *Yes* ✓, and is the frame effectively earthed *Yes* ✓

Are the following fittings as per Rule, viz.:— 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*

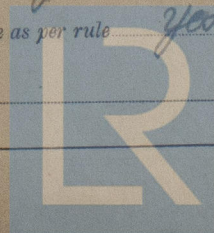
Switches & fuses ✓

Instruments on main switchboard *2* ammeters *1* voltmeter 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 *2 earth lamps with Pushes, with circuit is only made when pushes are pressed, 2 way switch fitted to connect to either machine*

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules *Yes* ✓

Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule *Yes* ✓



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W63-0069 (1/2)

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. *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 ✓*

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

Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	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								
	WORKSHOP MOTOR								
	VENTILATING FANS $7\frac{1}{2}$ " ...	1	.0030	3	.036	12	40 ft	V.I.R.	Lead covered
	" M/F Circulator	1	.003	3	.036	12	30 "	"	"

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.

Amcwill Akerly

Electrical Engineers.

Date *October 1922*

ELECTRICAL ENGINEER

10 OCT. 1922

COMPASSES.

Nearest

Distance between electric generators or motors and standard compass *16 feet*

Distance between electric generators or motors and steering compass *18 feet*

The nearest cables to the compasses are as follows:—

A cable carrying *3* Ampères *5* feet from standard compass *2* feet from steering compass.

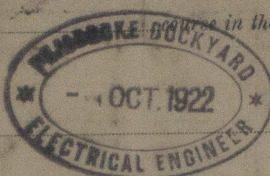
A cable carrying Ampères feet from standard compass feet from steering compass.

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

Have the compasses been adjusted with and without the electric installation at work at 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

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



Builder's Signature.

Date

Is this installation a duplicate of a previous case *Yes* If so, state name of vessel *"Olma"*

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

This installation has been experimentally tested on board, and under a full working test proved satisfactory

It is submitted that this vessel is eligible for THE RECORD. Elec. Light. 4/11/22

Total Capacity of Generators *14* Kilowatts

The amount of Fee ... £ *14: 0: 0* When applied for, *12/11/22*

Travelling Expenses (if any): £

When received, *30/5/23*

W. G. Culby
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

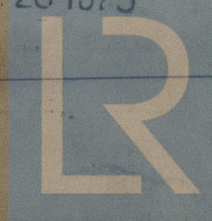
FRI. NOV. 17 1922

TUE DEC. 5 1922

Assigned

TUE JUN. 26 1923

1m. 22.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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