

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

JAN 8 1940

Date of writing Report Dec 6 1939 When handed in at Local Office Dec 6 1939 Port of Tancoore 186 Received at London Office

No. in Survey held at Marpole + Tancoore 186 Date, First Survey July 12 Last Survey Dec 9 1939  
 Reg. Book. on the wood motor cruiser "LEOLA VIVIAN" (Number of Visits 4)

Built at Marpole 186 By whom built W. Pirian Yard No. 1 When built 1939  
 Owners W. Pirian Port belonging to Tancoore 186

Electric Light Installation fitted by Magnet Electric Co Contract No. When fitted 1939  
 Is the Vessel fitted for carrying Petroleum in bulk no

Tons { Gross 49.49  
 Net 21.57

System of Distribution 2 wire  
 Pressure of supply for Lighting 52 volts, Heating ✓ volts, Power ✓ volts.  
 Direct or Alternating Current, Lighting Direct. Power ✓

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 to governor.

Generators, do they comply with the requirements regarding temperature rise Yes, are they compound wound Shunt wound.  
 are they over compounded 5 per cent. ✓, if not compound wound state distance between each generator 6 feet, not used together  
 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 Yes  
 Have certificates of test results for machines under 100 kw. been submitted and approved Yes Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing ✓

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, Ymg rules.

Position of Generators Main Eng. S. Side. Aux Eng S. Side of Engine room, 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 18" horizontally, and 15" vertically.  
 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 no, feet driven Main Switch Board, where placed Engine room Starboard Side

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 Same Compartment.

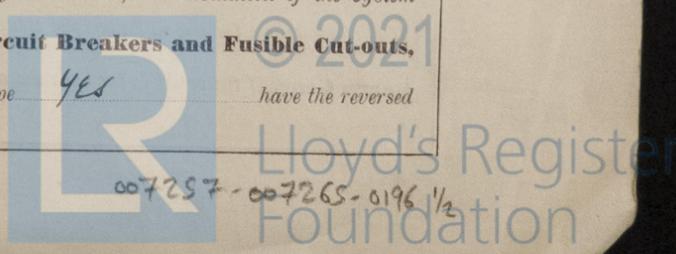
Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes Yes, are they protected from mechanical injury and damage from water, steam or oil Yes, if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards 24" horizontally and 12" vertical, are they constructed wholly of durable, non-ignitable non-absorbent materials Yes, Johns Manville Ebonite, is all insulation of high dielectric strength and of permanently high insulation resistance Yes, is it of an approved type Yes, if semi-insulating material is used, are all conducting parts insulated from the slab with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework ✓, is the non-hygroscopic insulating material of an approved type ✓, 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, temperature rise of omnibus bars Yes, individual fuses to voltmeter, pilot or earth lamp no, are moving parts of switches alive in the "off" position no are all screws and nuts securing connections effectively locked Yes are any fuses fitted on the live side of switches no

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches Main Switch 3 pole, 60 amp, 250 volt, arranged double throw so only one generator can be used.

Are turbine driven generators fitted with emergency trip switch as per rule ✓ Are cupboards or compartments containing switchboards composed of fire-resisting material or lined with approved material no Instruments on main switchboard ✓ ammeters ✓ voltmeters no synchronising device for paralleling purposes. For compound machines is the ammeter connected on the opposite pole to equaliser connection ✓

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system no - battery system. Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules Yes are the fusible cutouts of an approved type Yes have the reversed





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.

*Magnet Electric Co  
John T F Roggatt*

Electrical Engineers.

Date *Dec. 30*

COMPASSES.

Distance between electric generators or motors and standard compass

Distance between electric generators ~~or motors~~ and steering compass *30 feet*

The nearest cables to the compasses are as follows:—

A cable carrying *5* Ampères feet from standard compass *1* feet from steering compass.

A cable carrying *2* Ampères feet from standard compass *6* feet from steering compass.

A cable carrying *8* Ampères feet from standard compass *15* 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

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

*Will Viron*

Builder's Signature.

Date *Dec. 5. 39*

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. *Vessel fitted with generator on main engine*)

*Generator on Aux engine full size.*

*Battery System consists of 16 cells 32 v. In operation lights are direct connected to two bars, which are direct connected to battery. Each generator works separately and when working batteries are floating on the line.*

*Equipment mugs tested, also tested out under working conditions with satisfactory results*

*W. H. C.  
L. H.  
13/1/40.*

Total Capacity of Generators *1.5* Kilowatts.

The amount of Fee ... *\$ 50.00* : When applied for, *Dec 1 19 39*

Travelling Expenses (if any) £ : : When received, *4-3-40*

*A. S. H.*

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 1 MAR 1940

Assigned

*See Vol 26. 5316 a*



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2m.534. - Transfer. The Surveyors are requested not to write on or below the space for Committee's Minute.