

Rpt. 13.

No. 81967

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 19 When handed in at Local Office 5/11/1927 Port of Newcastle-on-Tyne Received at London Office 8 NOV 1927

No. in Survey held at Newcastle. Date, First Survey Sept. 21. Last Survey Oct. 24. 1927.  
Reg. Book. Suff. (Number of Visits 4)

42277 on the S. S. Perija Tons { Gross  
Net

Built at Newcastle. By whom built Palmer & Co. Yard No. 976 When built 1927

Owners Venezuelan Gulf Oil Co. Port belonging to Maracaibo

Electric Light Installation fitted by Palmer & Co. Contract No. 976 When fitted 1927.

System of Distribution Double wire ✓  
Pressure of supply for Lighting 110 ✓ 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. Yes

Generators, do they comply with the requirements regarding rating. 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. —, 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 Engine room starboard side.

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. 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 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. —

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, 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 mica-nite 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 switch

fuses on each outgoing circuit on dynamo mains

Instruments on main switchboard one ammeters one voltmeters — 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. earth lamps coupled to earth through switches & fuses

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

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

[illegible]

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.

*W. A. Pomeroy*  
Palmer's S. & L. Co. Ltd

Electrical Engineers.

Date *3/11/27*

#### COMPASSES.

Distance between electric generators or motors and standard compass *120 feet*

Distance between electric generators or motors and steering compass *110 feet.*

The nearest cables to the compasses are as follows:—

A cable carrying *.25* Amperes *on the* ~~feet from~~ standard compass *8* feet from steering compass.

A cable carrying *.25* Amperes *8* feet from standard compass *on 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 *yes*

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.

*Palmer's S. & L. Co. Ltd.*

*Ab Jenkins*

Builder's Signature.

Date *3/11/27*

Is this installation a duplicate of a previous case *yes.* If so, state name of vessel *Anagua.*

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

*The above installation is in accordance with the Society's Rules. The vessel is eligible in my opinion for notation elec light, wireless*

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

*W.T. Badger*  
*18/11/27*

Total Capacity of Generators *12* Kilowatts.

The amount of Fee ... £ *12 : 0* : *27/10/1927*

Travelling Expenses (if any) £ : : *2/11/1927*

*W.T. Badger*

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

*Elec Lt*



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Foundation