

3 FEB 1927

Rpt. 13.

No. 1507.

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 28 FEB 1927

Date of writing Report 14 Feb 1927 When handed in at Local Office 14 Feb 1927 Port of *Nantes*

No. in Survey held at *St. Nazaire* Date, First Survey 8. 10. 26 Last Survey 12 Feb 1927

Reg. Book. 89.453. on the *T.S.S. parting and ITAIMBÉ* Tons { Gross 4993 Net 2941

Built at *St. Nazaire* By whom built *Ch. et Atel. de St. Naz. Penhoët* Yard No. 05 When built 1927-2.

Owners *Companhia Nacional Navegacao Costeira* Port belonging to *Rio de Janeiro*

Electric Light Installation fitted by *Ch. et Atel. de St. Nazaire. Penhoët* Contract No. 05 When fitted 1927

System of Distribution *Two wire direct current* ✓ volts, Power 110 volts.

Pressure of supply for Lighting 110 volts, Heating ✓ Power *Direct* ✓

Direct or Alternating Current, Lighting *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 *Yes* ✓, is an adjustable regulating resistance fitted in

series with each shunt field *Yes* ✓

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 *Main: on port tween deck in engine room. Emergency: On casing port side, boat deck.* ✓, are they clear of all inflammable material *Yes* ✓

is the ventilation in way of the generators satisfactory *Yes* ✓, state distance of same horizontally from or vertically above the generators

if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators *Yes* ✓

and ✓, are the generators protected from mechanical injury and damage from water, steam or oil *Yes* ✓

are their axis of rotation fore and aft *Yes* ✓ are the prime movers and

Earthling, are the bedplates and frames of the generating plant efficiently earthed *Yes* ✓

their respective generators in metallic contact *Yes* ✓

Main Switch Boards, where placed *Main: On ship's side behind dynamo. Emergency: on bulkhead at dynamo.* ✓

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* ✓, if situated near unprotected

are they protected from mechanical injury and damage from water, steam or oil ✓ and ✓

woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards ✓

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 main*

*switch with overload & reverse current trips. interlocked with single pole equalizer switch for each main generator.*

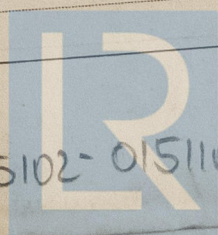
*single pole switch for each circuit.*

Instruments on main switchboard 2 ammeters 2 voltmeters 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 2 earth lamps.

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

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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.

*J. Savallio*

Electrical Engineers.

Date

24/2/27

#### COMPASSES.

Distance between electric generators or motors and standard compass 36"

Distance between electric generators or motors and steering compass 36"

The nearest cables to the compasses are as follows:—

A cable carrying 5 Amperes 9 feet from standard compass 9 feet from steering compass.

A cable carrying — Amperes — feet from standard compass — 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. ✓

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 — course in the case of the steering compass.

*M. M. M.*

Builder's Signature.

Date 24.2.27.

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.) Workmanship good.

This installation has been specially surveyed during fitting out and is in accordance with the approved plans and otherwise in accordance with the Rules. It has successfully withstood running tests and is eligible in my opinion for the notation of electric light in the Register Book.

It is submitted that this vessel is eligible for THIS RECORD.

Elec. Light.

25th. 28/2/27.

Total Capacity of Generators 138 Kilowatts

The amount of Fee <sup>incl @ 123.00</sup> 133.8.0. <sup>40</sup> 4.125. : { When applied for, 1927. When received, 11.3.27. Travelling Expenses (if any) £ 680. : {

*Geo. A. Loring*  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

*Elec Light*



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