

# REPORT ON ELECTRIC FITTINGS

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

19 MAY 1927

Date of writing Report 17<sup>th</sup> May 1927 When handed in at Local Office 18<sup>th</sup> May 1927 Port of SouthamptonNo. in Survey held at Southampton Date, First Survey 28<sup>th</sup> Jan'y 1926 Last Survey 2<sup>nd</sup> May 1927  
Reg. Book. on the TWIN M.V. EL BUARO (Number of Visits 10)Built at Woolston, Southampton By whom built Messrs J. I. Hornycroft & Co Yard No. 1062 Tons { Gross 259.46  
Net 120.57  
When built 1927

Owners Anglo-Ecuadorian Oilfields Ltd Port belonging to Guayaquil

Electric Light Installation fitted by Messrs J. I. Hornycroft &amp; Co Ltd Contract No. 1062 When fitted 1927

System of Distribution 2 Wire Insulated ✓

Pressure of supply for Lighting 110 ✓ volts, Heating — volts, Power 110 ✓ 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 No Shunt wound  
are they over compounded 5 per cent. —, 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 and clearly marked Yes, are they so spaced or shielded that they cannot be accidentally earthed, or short circuited Yes

Position of Generators Starboard 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 — 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

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 In Engine Room

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 —, and is the frame effectively earthed —

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

1: 150 Amp D.P. Generator Switch + Fuses 1. 100 Amp D.P. Switch + Fuses for Power Circuit 3: 10 Amp D.P. Change Over Switches + Fuses to each pole for lighting circuits

Instruments on main switchboard 1: Main 1: Battery ammeters 1: voltmeter 1: Reville type Auto-cut in &amp; cut out. 1: 4 way charge &amp; discharge switch synchronising device for paralleling &amp; exposed

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

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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Lloyd's Register  
Foundation



[illegible]

0331 2/2



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.



*Macchie*  
Electrical Engineers.

Date 20.4.1927

#### COMPASSES.

Distance between electric generators or motors and standard compass. 30 feet.  
Distance between electric generators or motors and steering compass. —  
The nearest cables to the compasses are as follows:—  
A cable carrying 28 Amperes on ~~100~~ standard compass. — 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. 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.



*Macchie*  
Builder's Signature.

Date 20.4.1927

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.) The electrical installation

of this vessel has been fitted under special survey in accordance with the requirements of the Rules, and afterwards tested under full working conditions with satisfactory results. The vessel is eligible in my opinion to have a record of Electric Light

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

Total Capacity of Generators 14 Kilowatts

The amount of Fee ... £14-0-0 { When applied for, 18/5/27  
Travelling Expenses (if any) £ : : { When received, 18/5/27

Committee's Minute FRI 20 MAY 1927

Assigned

*Elec. light*

*H. F. Garnett*  
Surveyor to Lloyd's Register of Shipping.