

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

WED. JUN. 4 1924

Date of writing Report 23.5.1924 When handed in at Local Office 2.6.24 Port of GLASGOW

No. in Survey held at GREENOCK Date, First Survey 7.5.24 Last Survey 21.5.1924  
Reg. Book. (Number of Visits 3)41568 on the S.S. ZAPALA Tons { Gross 4895  
Net 3088

Built at PORT GLASGOW By whom built LITHGOW'S LTD Yard No. 754 When built 1924

Owners A. HOLLAND &amp; CO. LTD Port belonging to LONDON.

Electric Light Installation fitted by H.T. ROBERTSON &amp; CO Contract No. 754. When fitted 1924

## System of Distribution

Double Wire

Pressure of supply for Lighting 100 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 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 —, is an adjustable regulating resistance fitted in series with each shunt field —

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 Generator Starting Platform at front

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 Board, where placed Starting Platform at front

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

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

D/P Main Switch for Installation  
D/P Circuit Switches for each outgoing circuit

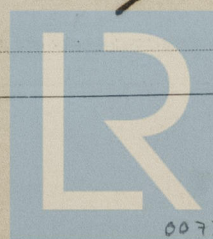
Instruments on main switchboard 1 ammeter 1 voltmeter — synchronising device for paralleling purposes.

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

Two lamps in series earthed

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.

[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.

*H. Robertson & Co.* Electrical Engineers.

Date *28 May '24*

#### COMPASSES.

Distance between electric generators or motors and standard compass

*100 ft*

Distance between electric generators or motors and steering compass

*100 ft*

The nearest cables to the compasses are as follows:—

A cable carrying *6* Amperes *10* feet from standard compass *10* feet from steering compass.

A cable carrying *2* Amperes *into* ~~from~~ standard compass *into* ~~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 *nil* degrees on *every* course in the case of the standard compass, and *nil* degrees on *every* course in the case of the steering compass.

LITHGOWS LIMITED.

*Wm Allan*

Director & Secretary

Builder's Signature.

Date *30/5/24*

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.)

*This installation has*

*been fitted on board under special survey.  
Tested under full working conditions and  
found satisfactory. The workmanship  
was found to be good and sound.*

THE RECORD.

*Elec. Light.*

*28/5/24*

*CWS*

Total Capacity of Generators *4.5* Kilowatts

The amount of Fee ... £ *4.10.0*

When applied for, *28/5/24*

Travelling Expenses (if any) £ *10.6*

When received, *28/5/24*

*J. S. Rankin*  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned *Elec. Light*



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