

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 26 OCT 1927

Date of writing Report 5.10.1927 When handed in at Local Office 22.10.1927 Port of GLASGOW.

No. in Survey held at GLASGOW. Date, First Survey 27.9.27 Last Survey 5.10.1927
Reg. Book. (Number of Visits 3)

41617 on the S.S. LUNULA.

Tons { Gross
Net

Built at PORT GLASGOW. By whom built W. HAMILTON & CO Yard No. 398 When built 1927

Owners ARAL S.S. CO LTD. Port belonging to LIVERPOOL.

Electric Light Installation fitted by MESSRS TELFORD GRIER & MCKAY Contract No. 398 When fitted 1927

System of Distribution

Two Wire

Pressure of supply for Lighting

110 Volts

volts, Heating

volts, Power

110 Volts

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

Generators, do they comply with the requirements regarding overload

, are they compound 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

Are all terminals accessible and clearly marked

, are they so spaced or shielded that they cannot be accidentally earthed,

or short circuited

Are the lubricating arrangements of the generators as per Rule

Position of Generators

Starboard Side Main Engine Room

is the ventilation in way of the generators satisfactory

, are they clear of all inflammable material

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

are their axis of rotation fore and aft

Earthing, are the bedplates and frames of the generating plant efficiently earthed

are the prime movers and

their respective generators in metallic contact

Main Switch Boards, where placed

On Bulkhead beside Generators

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

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

, if situated near unprotected

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

, is all insulation of high dielectric strength and of

permanently high insulation resistance

Slate Slab

, 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

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

D.P. Main Switch & Fuses for each Generator

D.P. Throw over Switch & Fuses for each outgoing Circuit

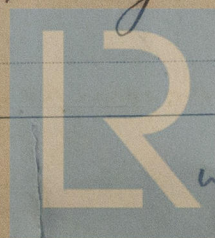
Instruments on main switchboard Two ammeters Two voltmeters — synchronising device for paralleling purposes.

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

Switch Fuse & lamp in series between each bus bar & earth

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules

Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule



© 2019

Lloyd's Register
Foundation

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.

Yelford Greig & Mackay Ltd.
per W. Henderson Director

Electrical Engineers.

Date *15th Oct. '27*

COMPASSES.

Distance between electric generators or motors and standard compass *196 feet*

Distance between electric generators or motors and steering compass *200 feet*

The nearest cables to the compasses are as follows:—

A cable carrying *7* Amperes *8* feet from standard compass *4* feet from steering compass.

A cable carrying *1/2* Amperes *one* feet from standard compass *one* foot 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 *any* course in the case of the standard compass, and *nil* degrees on *any* course in the case of the steering compass.

WILLIAM HAMILTON & CO. LIMITED.

W. Hamilton

Builder's Signature.

Date *20/10/27.*

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.) *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.*

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

JWD.
27/10/27

Total Capacity of Generators *16.* Kilowatts

The amount of Fee ... £ *16-10-0* : *clerk.*

Travelling Expenses (if any) £ : : *5/10/27. mtd.*

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

Committee's Minute *GLASGOW 25 OCT 1927*

Assigned *Elec. Light.* *W.M.*



© 2019

Lloyd's Register
Foundation