

Rpt. 13.

No. 472 11

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

16 NOV 1927

Date of writing Report 31.10.27 When handed in at Local Office 14.11.27 Port of GLASGOW.

No. in Survey held at GLASGOW. Date, First Survey 28.9.27 Last Survey 12.10.1927
 Reg. Book. 42280 on the S.S. PLANTER. (Number of Visits 2)

Built at GLASGOW. By whom built MESSRS C. CONNELL & CO Yard No. 408 When built 1927
 Owners MESSRS CHARENTE S.S. CO LTD Port belonging to LIVERPOOL.
 Electric Light Installation fitted by MESSRS H. T. ROBERTSON & CO Contract No. 408 When fitted 1927

System of Distribution

Single 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

Yesare 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

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

Above Eng Room Stern Stand 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 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

Alongside Generator

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

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

APP Main SwitchAPP Circuit Switches for each circuit

Instruments on main switchboard

1 ammeter1 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

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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W350-0095 1/2

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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.

H. J. Robertson & Co

Electrical Engineers.

Date *31st Oct 27*

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 *8* Amperes *12* feet from standard compass *10* feet from steering compass.

A cable carrying *.2* Amperes *into* feet from standard compass *into* 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 *7 1/2* degrees on *every* course in the case of the standard compass, and *7 1/2* degrees on *every* course in the case of the steering compass.

For CHARLES CONNELL & CO., Limited.

W. B. Bannan

SECRETARY

Builder's Signature.

Date *4 Nov. 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.)

This installation has been fitted on board under special supervision. 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.

J. S. Rankin
22/11/27

Total Capacity of Generators *12.5* Kilowatts

The amount of Fee ... £ *12.10.0* When applied for, *14.11.27*

Travelling Expenses (if any) £ : : *8.11.27* When received, *19.11.27*

Committee's Minute **GLASGOW 15 NOV 1927**

Assigned *Glec. Light.*

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



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