

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

14 DEC 1927

Date of writing Report 23.11.27 When handed in at Local Office 12.12.27 Port of GLASGOW.

No. in Survey held at GLASGOW. Date, First Survey 7.11.27 Last Survey 16.11.27 19  
Reg. Book.

on the

M.V. "PAULA"

(Number of Visits...2...)

Tons { Gross 2770  
Net

Built at GOYAN. By whom built MESSRS HARLAND &amp; WOLFF. Yard No. 4489 When built 1927.

Owners THE BRITISH MARITIME OIL CO. LTD Port belonging to LONDON WILLEMSTAD

Electric Light Installation fitted by MESSRS HARLAND &amp; WOLFF LTD (GOYAN) Contract No. 4489 When fitted 1927

## System of Distribution

Two Wire ✓

## 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 rating

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

No

, is an adjustable regulating resistance fitted in

series with each shunt field

Yes, with oil set

- No, with Steam set

Are all terminals accessible, clearly marked, and furnished with sockets

Yes

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

short circuited, or touched

Yes

Are the lubricating arrangements of the generators as per Rule

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 axes 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

Starboard Side of 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, non-ignitable 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 insulated from the slab

with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework

and is the frame effectively earthed

Yes

Are the fittings as per Rule regarding:— 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. Circuit

Breakers for Generators - Set of Bus-Bars for each generator and D.P. Change over Switches, &amp; D.P. Fuses for each outgoing circuit.

Instruments on main switchboard

2

ammeters

2

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

Two lamps

and two linked S.P. Switches across mains, mid point of lamps earthed.

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

Yes

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

Yes







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.

FOR HARLAND & WOLFF, L<sup>TD</sup>  
*John Dickenson*,  
Managing Director

Electrical Engineers.

Date

#### COMPASSES.

Distance between electric generators or motors and standard compass

130 feet

Distance between electric generators or motors and steering compass

124 feet

The nearest cables to the compasses are as follows:—

A cable carrying 4 Amperes 9 feet from standard compass 6 feet from steering compass.

A cable carrying 6 Amperes 18 feet from standard compass 15 feet from steering compass.

A cable carrying 8 Amperes 18 feet from standard compass 15 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 all the course in the case of the standard

compass, and Nil. degrees on all the course in the case of the steering compass.

FOR HARLAND & WOLFF, L<sup>TD</sup>  
*John Dickenson*,  
Managing Director

Builder's Signature.

Date

Is this installation a duplicate of a previous case

No.

If so, state name of vessel

M.W. Pava.

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 materials and workmanship were found to be good and sound.

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

*W.D.*  
16/12/27

Total Capacity of Generators 80 Kilowatts.

The amount of Fee ... £ 17.10.0

When applied for,

24/11/27

Travelling Expenses (if any) £

When received,

14.12.27

Committee's Minute

GLASGOW 13 DEC 1927

Assigned

Elec. Light.

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



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Lloyd's Register  
Foundation

A.B.  
12/12/27