

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

25 JAN 1928

Date of writing Report 29.12.1927 When handed in at Local Office 23.1.1928 Port of GLASGOW.

No. in Survey held at GLASGOW. Date, First Survey 28.11.27 Last Survey 26.12.1927
Reg. Book. (Number of Visits 5)12503 on the M.V. "PACHECO." Tons { Gross 1346
Net

Built at GOVAN. By whom built HARLAND & WOLFF LTD. Yard No. 7436 When built 1927.

Owners MESSRS MACANDREWS & CO LTD. Port belonging to LIVERPOOL

Electric Light Installation fitted by MESSRS HARLAND & WOLFF LTD. Contract No. 7436 When fitted 1927.

System of Distribution

Two wire

Pressure of supply for Lighting

220

volts, Heating

220

volts, Power

220

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. Yes, is an adjustable regulating resistance fitted in series with each shunt field. Yes

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

Position of Generators No. 1 Port Side of Eng Rm No. 2 & 3 Starboard Side of Eng Rm.

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.

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 on platform over Thrust Recess aft end of Eng. Rm.

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 micaite or other non-hygrosopic 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 interlocked with S.P. Switch for Equalizer, for each Generator. and S.P. Switch + D.P. Fuse for each outgoing circuit.

Instruments on main switchboard 3 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



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010236-010245-0324 1/2

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.

FOR HARLAND & WOLFF, LTD.

John Dickinson

Managing Director

Electrical Engineers.

Date *20th Jan 1928*

COMPASSES.

Distance between electric generators or motors and standard compass *50 feet*

Distance between electric generators or motors and steering compass *54 feet*

The nearest cables to the compasses are as follows:—

A cable carrying *0.6* Ampères *2* feet from standard compass *6* feet from steering compass.

A cable carrying *2.0* Ampères *5* feet from standard compass *6* feet from steering compass.

A cable carrying *5.0* Ampères *5* feet from standard compass *6* 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, LTD.

John Dickinson

Managing Director

Builder's Signature.

Date *20th Jan 1928*

Is this installation a duplicate of a previous case *No*. If so, state name of vessel

M.V. Pelago

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 & found satisfactory. The materials & workmanship were found to be good and sound.

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

Elec. Light

27/1/28

Total Capacity of Generators *195* Kilowatts.

The amount of Fee ... £ *36.5.0* : *27/12/27* When applied for,
Travelling Expenses (if any) £ : : *17/1/28* When received,

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

Committee's Minute *GLASGOW 24 JAN 1928*

Assigned *Elec. Light* *WMM*



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