

Rpt. 13.

No. 47675

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 29.8.1928 When handed in at Local Office 19.3.1928 Port of GLASGOW.

No. in Survey held at GLASGOW. Date, First Survey 1.2.28 Last Survey 20.2.1928
(Number of Visits 3)

Reg. Book.

42321 on the

M. V. PONZANO

Tons { Gross 1346
Net

Built at GOVAN.

By whom built

HARLAND & WOLFF LTD

Yard No. 445

When built 1928

Owners MESSRS MACANDREW & CO LTD

Port belonging to

LIVERPOOL.

Electric Light Installation fitted by MESSRS HARLAND & WOLFF LTD

Contract No. 445

When fitted 1928

System of Distribution

Two Wire

Pressure of supply for Lighting 220 volts, Heating 200 volts, Power 200 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 Are the lubricating arrangements of the generators as per Rule Yes

Position of Generators Port side Eng room No 23 Starboard side of Eng 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 On platform over Thrust Recess aft end 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 interlocked with S. P. Switch for Equalizing for each Generator

7 S. P. Switch & D. P. Fuse for each outgoing circuit

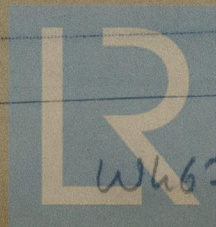
Instruments on main switchboard 3 ammeters 2 voltmeters synchronising device for paralleling purposes.

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

2 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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Wh67-0016 A(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 AND WOLFF, LIMITED.

John Dickenson
Managing Director Electrical Engineers.

Date 12th March 1928

COMPASSES.

Distance between electric generators or motors and standard compass 50 ft.

Distance between electric generators or motors and steering compass 54 ft.

The nearest cables to the compasses are as follows:—

A cable carrying .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.

HARLAND AND WOLFF, LIMITED.

John Dickenson
Managing Director Builder's Signature.

Date 12th March 1928

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

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 & workmanship were found to be good and sound.

Blue Light
16/4/28

Total Capacity of Generators 195 Kilowatts.

The amount of Fee ... £ 36.5.0

When applied for,

1/3/28

Travelling Expenses (if any) £ :

When received,

16/3/28

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

Committee's Minute

GLASGOW 20 MAR 1928

Assigned

Elec. Light.



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