

Rpt. 13.

No. 46022

**REPORT ON ELECTRIC FITTINGS.**

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 17 NOV 1926

Date of writing Report 9-10-1926 When handed in at Local Office 15/11/26 Port of GLASGOW

No. in Survey held at GLASGOW  
Reg. Book.Date, First Survey 16<sup>th</sup> Aug Last Survey 24<sup>th</sup> Sept 1926

(Number of Visits 9)

887.07 on the "M. V. DOLORES DE URQUIZA"

Tons { Gross 2218.  
Net

Built at GLASGOW

By whom built MESSRS A &amp; J INGLIS LTD Yard No. 725 When built 1926

Owners ENTRE RIOS RAILWAY CO LTD Port belonging to

Electric Light Installation fitted by MESSRS HARLAND & WOLFF LTD Contract No. 125 When fitted 1926  
GOVANSystem of Distribution Two WIRE 7 0.36 8 40  
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 overload 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 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 Generators ONE AT EACH SIDE OF MAIN MOTOR 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 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 FOR<sup>d</sup> END OF MAIN MOTOR, MIDSHIPS.

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, 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 D.P. CIRCUIT

BREAKER INTERLOCKED WITH S.P. EQUALISING SWITCH FOR EACH GENERATOR &amp; D.P. SWITCH &amp; 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 2 WAY SWITCH &amp; VOLTMETER

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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Foundation

009301-009310-0157



*If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office*

[illegible]

| MOTOR CONDUCTORS. |                           |                |  |                        |           |                                 |  |                |                |
|-------------------|---------------------------|----------------|--|------------------------|-----------|---------------------------------|--|----------------|----------------|
| Ref. No.          | DESCRIPTION.              | No. of Motors. | Effective Area of each Conductor. Sq. Ins. | COMPOSITION OF STRAND. |           | Total Maximum Current. Amperes. | Approximate Length. (Lead and Return.) Feet. | Insulated with | HOW PROTECTED. |
|                   |                           |                |  | No.                    | Diameter. |                                 |  |                |                |
|                   | BALLAST PUMP ... ..       |                |  |                        |           |                                 |  |                |                |
|                   | MAIN BILGE LINE PUMPS ... |                |  |                        |           |                                 |  |                |                |
|                   | GENERAL SERVICE PUMP ...  | 1              | .04  | 19                     | .052      | 60 ✓                            | 184  | RUBBER         | LEAD CASED     |
|                   | EMERGENCY BILGE PUMP ...  |                |  |                        |           |                                 |  |                |                |
|                   | SANITARY PUMP ... ..      |                |  |                        |           |                                 |  |                |                |
|                   | CIRC. SEA WATER PUMPS ... | 1              | .01  | 7                      | .044      | 29 ✓                            | 144  | D°             | D°             |
|                   | CIRC. FRESH WATER PUMPS   |                |  |                        |           |                                 |  |                |                |
|                   | AIR COMPRESSOR ... ..     |                |  |                        |           |                                 |  |                |                |
|                   | FRESH WATER PUMP ... ..   | 1              | .003                                       | 3                      | .036      | 5 ✓                             | 170  | D°             | D°             |
|                   | ENGINE TURNING GEAR ...   |                |  |                        |           |                                 |  |                |                |
|                   | ENGINE REVERSING GEAR ... |                |  |                        |           |                                 |  |                |                |
|                   | LUBRICATING OIL PUMPS ... |                |  |                        |           |                                 |  |                |                |
|                   | OIL FUEL TRANSFER PUMP    |                |  |                        |           |                                 |  |                |                |
|                   | WINDLASS ... ..           | 1              | .12  | 37                     | .064      | 145 ✓                           | 336  | D°             | L.C. & A       |
|                   | WINCHES, FORWARD ...      |                |  |                        |           |                                 |  |                |                |
|                   | WINCHES, AFT ... ..       |                |  |                        |           |                                 |  |                |                |
|                   | STEERING GEAR ... ..      | 1              | .0225                                      | 7                      | .067      | 41.5                            | 380  | D°             | D°             |
|                   | WORKSHOP MOTOR ... ..     |                |  |                        |           |                                 |  |                |                |
|                   | VENTILATING FANS ... ..   |                |  |                        |           |                                 |  |                |                |
|                   | SUPERCHARGER FANS         | 2              | .06  | 19                     | .064      | 44 ✓                            | 170  | D°             | D°             |
|                   | CAPSTAN                   | 1              | .10  | 19                     | .083      | 81 ✓                            | 400  | D°             | D°             |



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 Dickson*  
Managing Director

Electrical Engineers.

Date 10th Nov 1926

#### COMPASSES.

Distance between electric generators or motors and standard compass NONE FITTED.

Distance between electric generators or motors and steering compass 100 FT.

The nearest cables to the compasses are as follows:—

A cable carrying 16 Amperes — 6 feet from standard compass 5 feet from steering compass. LEAD CASED CABLES BY BRASS CLIPS

A cable carrying 3.5 Amperes — — feet from standard compass 5 feet from steering compass.

A cable carrying 6 Amperes — — feet from standard compass 3 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 — degrees on — 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 Dickson*  
Managing Director

Builder's Signature.

Date 10th Nov 1926

Is this installation a duplicate of a previous case ho 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.

CAST OR COPIES submitted that this vessel is eligible for THE RECORD.

Elec. Light.  
27. 19/11/26.

Total Capacity of Generators 110 YES Kilowatts

The amount of Fee ... £ 32.0.0

When applied for, 11/01/26.

Travelling Expenses (if any) £ :

When received, 25/10/26.

Committee's Minute GLASGOW 16 NOV 1926

Assigned

Elec. Light.

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



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