

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

30 SEP 1927

Date of writing Report 28 Sept 1927 When handed in at Local Office 29th Sept 1927 Port of BelfastNo. in Survey held at Belfast Date, First Survey 24th Aug. Last Survey 23rd Sept 1927
Reg. Book.42165 on the STEEL TWIN SCREW ORANJESTAD Tons { Gross 2402
Net 1242

Built at Belfast By whom built Harland & Wolff Ltd. Yard No. 809 When built 1927

Owners Lago Shipping Co. (ANDREW WEIR & Co.). Port belonging to London

Electric Light Installation fitted by Harland & Wolff Ltd. Contract No. 809 When fitted 1927

System of Distribution TWO WIRE DIRECT CURRENT TO DISTRIBUTION BOXES ✓

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 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 No, is an adjustable regulating resistance fitted in

series with each shunt field No

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 IN ENGINE ROOM AFT

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 ENGINE ROOM ON AFT BULKHEAD

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 —, 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 EACH GENERATOR IS

CONNECTED TO SEPARATE SETS OF BUS BARS WITH DOUBLE POLES, SWITCHES AND FUSES, AND EACH OUTGOING

CIRCUIT HAS DOUBLE POLE CHANGE OVER SWITCHES AND DOUBLE POLE FUSES.

Instruments on main switchboard TWO ammeters ONE 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 EARTH INDICATOR

LAMPS WITH CHANGE-OVER SWITCH TO EACH SET OF BUS BARS

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 —



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W203-02471 1/2

W203-0247.12/2

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.

Electrical Engineers.

Date 27 Sept 1927

COMPASSES.

Distance between electric generators or motors and standard compass: 210 Ft.

Distance between electric generators or motors and steering compass: 205 Ft.

The nearest cables to the compasses are as follows:—

A cable carrying 2 Amperes 10 feet from standard compass 5 feet from steering compass.

A cable carrying 14 Amperes 22 feet from standard compass 14 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 NIL degrees on ALL courses in the case of the standard compass, and NIL degrees on ALL courses in the case of the steering compass.

Builder's Signature.

Date 27 Sept 1927

Is this installation a duplicate of a previous case: YES If so, state name of vessel "SAN CARLOS" &c

General Remarks (State quality of workmanship, opinions as to class, &c.)

This work has been done under special survey. The materials and workmanship are sound and good. The installation has been fitted in accordance with the rules and tried out under full working conditions. The vessel is eligible, in my opinion, for notation "Electric light."

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

Total Capacity of Generators 10 Kilowatts

The amount of Fee ... £ 10 : — When applied for, 29 Sept 1927

Travelling Expenses (if any) £ — : — When received, 15.10.27

Committee's Minute TUES. 4 OCT 1927

Assigned

Elec Light

R Lee Amear

Surveyor to Lloyd's Register of Shipping.

1m. 9.24.—T. answer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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