

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

4 SEP 1924

Date of writing Report 15-8-1924 When handed in at Local Office 1-9-1924 Port of GLASGOW.

No. in Survey held at GREENOCK. Date, First Survey 1-8-24 Last Survey 13-8-1924
Reg. Book. (Number of Visits 2)89257 on the SS. INVELLA. Tons { Gross 5026
Net 4743

Built at GLASGOW. By whom built BARGLEY CURRIE & CO Card No. 600 When built 1924.

Owners SS. INDUNA CO LTD Port belonging to GLASGOW.

Electric Light Installation fitted by MESSRS A. WATSON & CO Contract No. 600 When fitted 1924.

System of Distribution

Double Wire Distribution System ✓

Pressure of supply for Lighting 100. ✓ volts, Heating — — — volts, Power 100 volts.

Direct or Alternating Current, Lighting Direct Current ✓ Power Direct Current ✓

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 — — —, 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 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 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 metallic half coupling

Main Switch Boards, where placed Starboard side of Engine Room, adjacent to Dynamo.

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 on pole insulated, 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. Switch & 2

fuses for Dynamo. S. P switch and 2 fuses for each outgoing circuit.

Instruments on main switchboard 1 ammeters 1 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 lamp with switch - fuse on each pole.

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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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 MR. WATSON & CO., LTD.,

D. Douglas
J. M. B.

DIRECTOR

Electrical Engineers.

Date 28-8-24

COMPASSES.

Distance between electric generators or motors and standard compass 100 feet.

Distance between electric generators or motors and steering compass 95 feet.

The nearest cables to the compasses are as follows:—

A cable carrying 5 Amperes 6 feet from standard compass 5 feet from steering compass.

A cable carrying 2 Amperes 4 feet from standard compass 4 feet from steering compass.

A cable carrying 2 Amperes 4 feet from standard compass 4 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 any course in the case of the standard compass, and nil degrees on any course in the case of the steering compass.

FOR BAROLAY, CURLE & CO., LTD.

W. Z. Zwing

Director

Builder's Signature.

Date 29th Aug 1924

Is this installation a duplicate of a previous case? No. 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.

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

J. W. Rankin
5/9/24

Total Capacity of Generators 14.5 Kilowatts

The amount of Fee ...

£ 7 10.0

When applied for,

25/8/24

Travelling Expenses (if any): £

10.6

When received,

See debit book.

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

Committee's Minute

GLASGOW

2 SEP 1924

Assigned

Elec. Light



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