

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

23 JUL 1927

Date of writing Report *19th July 1927* When handed in at Local Office *10* Port of *Bremer*

No. in Survey held at *Bremer* Date, First Survey *28th June* Last Survey *15th July* 1927
Reg. Book. *Bremer* (Number of Visits... *2*)

on the **STEEL SC "ADRIA"**

Built at *Bremer* By whom built *Deutsche Schiff- u. Maschinenbau A.G.* Yard No. *864* Tons { Gross *6358*
Net *3637* When built *1916/27*

Owners *Bremer Öl-Transport G. m. b. H.* Port belonging to *Bremer*

Electric Light Installation fitted by *Schiffbauunion "Electricität"-Gesellschaft* Contract No. *1927*

System of Distribution *Two-wire two conductor* ✓

Pressure of supply for Lighting *110* 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 *no* ✓, 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 *in engine space* ✓, are they clear of all inflammable material *yes* ✓

is the ventilation in way of the generators satisfactory *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 *in engine space* ✓

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 *each generator*

and each outgoing circuit is controlled by fuses and double pole linked

switches

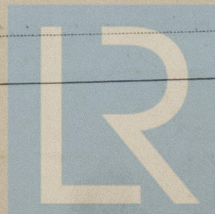
Instruments on main switchboard *6* ammeters *3* voltmeters synchronising device for paralleling purposes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system *one voltmeter*

with ohm scale and earth lamp

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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Lloyd's Register
Foundation

007412-007421-0104

The foregoing is a correct description.

Electrical Engineers.

Date 21. Juli 27.

COMPASSES.

Distance between electric generators or motors and standard compass 61 meters

Distance between electric generators or motors and steering compass 60 meters

The nearest cables to the compasses are as follows :—

A cable carrying 50 Amperes 7.5 meters ~~from~~ from standard compass 6 meters ~~feet~~ from steering compass.

A cable carrying Amperes feet from standard compass 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 40 degrees on any course in the case of the standard

compass, and no degrees on any course in the case of the steering compass.

Deutsche Schiff- und Maschinenbau Aktiengesellschaft

Builder's Signature.

Date _____

Is this installation a duplicate of a previous case yes If so, state name of vessel "Bircaya" and "Mit Amer"

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

This electric installation has been fitted in conformity with the approved plans, the Secretary's letters and the requirements of the Rules, tried under working conditions and was found in order. The materials used in the construction and the workmanship are good.

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

Total Capacity of Generators 132 Kilowatts

The amount of Fee £ 33 : 2 : (When applied for, 19.7.27)

Travelling Expenses (if any) £ 0 : 3 : 10

Surveyor to Lloyd's Register of Shipping.

Committee's Minute **FRI. 29 JUL 1927**

Assigned

Im. 9, 22.—Transfer.

Im 9 22.—Transfer,