

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 20 JUN 1927

Date of writing Report 13th June 1927 When handed in at Local Office

10 Port of Bremen

No. in Survey held at Bremen  
Reg. Book.

Date, First Survey 12th April

Last Survey 10th June 1927

(Number of Visits 10)

on the Steamer "MITTELMEER"

Built at Bremen

By whom built Deutsche Schiff- u. Maschinenbau A.G.  
Werk A.G. Weser

Yard No. 863

Tons { Gross 6370  
Net 3658

When built 1926/27

Owners Bremer Oel-Transport G. m. b. H.

Port belonging to Bremen

Electric Light Installation fitted by Schiffunion Electricität G. m. b. H.

Contract No.

When fitted 1927

System of Distribution Two-wire two conductors

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

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

✓

✓

, 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 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

✓

✓

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 fused 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

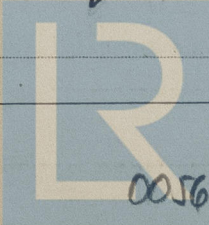
with ohm read and earth lamp

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

005695-005708-0160 1/2







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

**SCHIFFSUNION**  
Elektrische Gesellschaft für Kriegs- und Handels-Marine  
Zweigbüro Bremen.

*Kriebmann*

Electrical Engineers.

Date

*Bremen*  
*1. Juni 1927.*

#### 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* feet 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 *no* 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**  
Werk: Act. Ges. „Weser“

Builder's Signature.

Date

*Bremen*  
*14. Juni 1927*

Is this installation a duplicate of a previous case *yes*

If so, state name of vessel *S.S. "BISCARA" BMN RPT. No 964.*

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 letter 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* : *5/6 1927*

Travelling Expenses (if any) £ *4 : 6* : *30/6 1927*

Committee's Minute *FRI. 24 JUNI 1927*

Assigned

*Ele Light*

*G. H. C. Kamm*  
Surveyor to Lloyd's Register of Shipping.