

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report *19th May 1925* When handed in at Local Office *22nd May 1925* Port of *Danzig*No. in Survey held at *Danzig* *WARMA* Date, First Survey *14th May* Last Survey *15th May 1925*

Reg. Book.

Supplement

88722 on the *Paula ELISABETH MÆRSK*

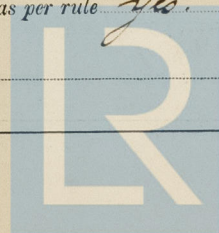
(Number of Visits.....)

Tons { Gross *1893*Net *1116*Built at *Danzig*By whom built *F. Schichau*Yard No. *1156* When built *1925*Owners *A. P. Miller*Port belonging to *Odense*

Electric Light Installation fitted by

*F. Schichau, Danzig*Contract No. *ME 1156* When fitted *1925*System of Distribution *For min system*Pressure of supply for Lighting *110* volts, Heating *✓* volts, Power *✓* volts.Direct or Alternating Current, Lighting *Direct current* Power *✓*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 *In steering engine space after end of bridge*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 *In steering engine space near the generator*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, connected to hull*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 *20 x 3 mm*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

*For the generator one double pole link switch, for each of the outgoing circuits one double pole change over switch, no equalizer switches.*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 *The voltmeter is provided with an Ohm scale, by means of a universal switch every pole can be tested against earthing.*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



[illegible]



*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.*

ppa F. Schichau, Schiffswerft zu Danzig

*Electrical Engineers.*

Date 22<sup>nd</sup> May 1925

## COMPASSES.

Distance between electric generators or motors and standard compass ..... 45 m

Distance between electric generators or motors and steering compass.....45.

*The nearest cables to the compasses are as follows :—*

A cable carrying 1 Ampères 400 to feet from standard compass 400 to feet from steering compass.

A cable carrying 6 Ampères 15 feet from standard compass 15 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 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 course, in the case of the standard compass, and nil degrees on all course, in the case of the steering compass.

ppa F. Schichau, Schiffswerft zu Danzig.

*Builder's Signature.*

Date 22<sup>nd</sup> May 1925

Is this installation a duplicate of a previous case: Yes..... If so, state name of vessel

Johannes Maersk

*Cornelia Maerck*

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

Workmanship and material are of good quality. As the conductors used are of the German Standard the Society's Rules respecting conductors have been applied generally. This electric installation is otherwise fitted and tested in conformity with the requirements of the Rules and eligible in our opinion for the notation of 'Electric Light'.

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

Total Capacity of Generators.....6.....Kilowatts

The amount of Fee ... ..	£	6	:	0	:	<div style="display: inline-block; vertical-align: middle;">                 When applied for,  <u>25.5.1925</u> </div>
Travelling Expenses (if any)	£		:		:	

Travelling Expenses (if any) £

### Committee's Minute

*Assigned*

James C. Dykes *Molke*  
Surveyor to Lloyd's Register of Shipping.