

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 18. 6 1924 When handed in at Local Office 10 Port of Rotterdam  
 No. in Survey held at Rotterdam Date, First Survey 5-5-24 Last Survey 3-6-1924  
 Reg. Book. on the Steel Twin Screw Steamer, MARSELLA (Number of Visits 2)  
 Tons { Gross  
 Net  
 Built at Rotterdam By whom built Rotterdam Drydock Co Yard No. 94 When built 1914  
 and owners Curacao'sche Scheep. Mij Port belonging to Hillema stad.  
 Electric Light Installation fitted by N. V. R. Ritschoten & Houwen Contract No. When fitted April 24

System of Distribution two wire system  
 Pressure of supply for Lighting 110 Volts, Heating volts, Power 110 volts.  
 Direct or Alternating Current, Lighting direct current Power direct current  
 alternating current system, state frequency of periods per second  
 as 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  
 ries with each shunt field  
 are all terminals accessible and clearly marked yes, are they so spaced or shielded that they cannot be accidentally earthed,  
 short circuited yes Are the lubricating arrangements of the generators as per Rule yes  
 Position of Generators in Engine room near main switchboard  
 the ventilation in way of the generators satisfactory yes, are they clear of all inflammable material yes  
 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 room near dynamo  
 If the generators and main switchboard are not placed in the same compartment, is each generator provided with  
 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. 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 for the generator  
 a double pole quick break linked knife switch and double pole fuse for  
 each outgoing circuit a double pole quick break linked knife switch & double pole fuse  
 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  
 two earth lamps  
 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



If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office.....

| MOTOR CONDUCTORS. |                           |                |  |                        |           |                                 |  |                |                            |
|-------------------|---------------------------|----------------|--|------------------------|-----------|---------------------------------|--|----------------|----------------------------|
| Ref. No.          | DESCRIPTION.              | No. of Motors. | Effective Area of each Conductor. Sq. Ins. | COMPOSITION OF STRAND. |           | Total Maximum Current. Amperes. | Approximate Length. (Lead and Return.) Feet. | Insulated with | HOW PROTECTED.             |
|                   |                           |                |  | No.                    | Diameter. |                                 |  |                |                            |
|                   | BALLAST PUMP ... ..       |                |  |                        |           |                                 |  |                |                            |
|                   | MAIN BILGE LINE PUMPS ... |                |  |                        |           |                                 |  |                |                            |
|                   | GENERAL SERVICE PUMP ...  |                |  |                        |           |                                 |  |                |                            |
|                   | EMERGENCY BILGE PUMP ...  |                |  |                        |           |                                 |  |                |                            |
|                   | SANITARY PUMP ... ..      |                |  |                        |           |                                 |  |                |                            |
|                   | CIRC. SEA WATER PUMPS ... |                |  |                        |           |                                 |  |                |                            |
|                   | CIRC. FRESH WATER PUMPS   |                |  |                        |           |                                 |  |                |                            |
|                   | AIR COMPRESSOR ... ..     |                |  |                        |           |                                 |  |                |                            |
|                   | FRESH WATER PUMP ... ..   |                |  |                        |           |                                 |  |                |                            |
|                   | ENGINE TURNING GEAR ...   |                |  |                        |           |                                 |  |                |                            |
|                   | ENGINE REVERSING GEAR ... |                |  |                        |           |                                 |  |                |                            |
|                   | LUBRICATING OIL PUMPS ... |                |  |                        |           |                                 |  |                |                            |
|                   | OIL FUEL TRANSFER PUMP    | 1              | 4  |                        |           | 7.1                             | 60   | rubber         | lead covered and armoured. |
|                   | WINDLASS ... ..           |                |  |                        |           |                                 |  |                |                            |
|                   | WINCHES, FORWARD ... ..   |                |  |                        |           |                                 |  |                |                            |
|                   | WINCHES, AFT ... ..       |                |  |                        |           |                                 |  |                |                            |
|                   | STEERING GEAR ... ..      |                |  |                        |           |                                 |  |                |                            |
|                   | WORKSHOP MOTOR ... ..     |                |  |                        |           |                                 |  |                |                            |
|                   | VENTILATING FANS ... ..   |                |  |                        |           |                                 |  |                |                            |
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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.

N. V. Van Rietschoten & Houwens'

Technisch-Industrieel Mij.

Electrical Engineers.

Date 18-6-24

#### COMPASSES.

Distance between electric generators or motors and standard compass 80 feet

Distance between electric generators or motors and steering compass 46 feet

The nearest cables to the compasses are as follows:—

A cable carrying 6 Amperes 18 feet from standard compass 40 feet from steering compass.

A cable carrying 0.3 Amperes 8 feet from standard compass 85 feet from steering compass.

A cable carrying 0.3 Amperes 82 feet from standard compass 9 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 nihil degrees on every course in the case of the standard compass, and nihil degrees on every course in the case of the steering compass.

ROTTERDAAMSCHE DOODDOEK MAATSCHAPPIJ

DIRECTEUR

Builder's Signature.

Date

Is this installation a duplicate of a previous case Yes If so, state name of vessel 2/3 "Martina"

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

This installation has been fitted in accordance with the Rules and found in a good working condition when tried and meets in my opinion the Committee's approval

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

Total Capacity of Generators 8 Kilowatts

The amount of Fee ...

f 96.00

When applied for,

19

Travelling Expenses (if any) £

When received,

30-6-24

Committee's Minute

FRI 27 JUN 1924

Assigned

Im. 927.—Transfer.

(The Surveys are requested not to write on or below the space for Committee's Minute.)



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