

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

1 JAN 1926

Report made on 2nd January 1926 When handed in at Local Office

Port of Copenhagen

Survey held at Copenhagen

Date, First Survey 3rd September Last Survey 19th December 1925

(Number of Visits 25)

the Steel Twin Screw Motor Vessel "DANMARK"

Tons { Gross 8390.97  
Net 5342.41

Copenhagen

By whom built Akt. Burmeister & Wain's Maskin og Skibsbyggeri

Yard No. 337

When built 1925

No. of Det Østasiatiske Kompagni

Port belonging to Copenhagen

Light Installation fitted by Akt. Burmeister & Wain's Maskin og Skibsbyggeri Contract No. 337 When fitted 1925

Distribution Two-wire with direct current, insulated system.  
supply for Lighting 110 volts, Heating 220 volts, Power 220 volts.

Alternating Current, Lighting Direct current. Power Direct current.

of current system, state frequency of periods per second ✓

Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off yes. ✓

do they comply with the requirements regarding overload yes, are they compound wound yes. ✓

compounded 5 per cent. no, if not compound wound state distance between each generator ✓

than one generator is fitted are they arranged to run in parallel yes, is an adjustable regulating resistance fitted in

each shunt field yes

terminals accessible and clearly marked yes, are they so spaced or shielded that they cannot be accidentally earthed,

excited yes, Are the lubricating arrangements of the generators as per Rule yes.

of Generators On port side of the machinery space.

relation in way of the generators satisfactory yes, are they clear of all inflammable material yes

near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators

near unprotected woodwork, are the generators protected from mechanical injury and damage from water, steam or oil yes

axes of rotation fore and aft yes

are the bedplates and frames of the generating plant efficiently earthed yes, are the prime movers and

adjacent generators in metallic contact yes

Switch Boards, where placed In the machinery space.

If the generators and main switchboard are not placed in the same compartment, is each generator provided with

each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard ✓

boards, are they placed in accessible positions, free from inflammable gases and acid fumes yes.

protected from mechanical injury and damage from water, steam or oil yes, if situated near unprotected

or other combustible material, state distance of same horizontally from or vertically above the switchboards Not situated near unprotected woodwork

constructed wholly of durable, incombustible non-absorbent materials yes, is all insulation of high dielectric strength and of

high insulation resistance yes, if semi-insulating material is used, are all conducting parts connected to one pole

from the slab with mica or micaite and the slab similarly insulated from its framework yes, and is the

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

yes, individual fuses to voltmeter, pilot or earth lamp yes, connections of switches yes

switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches For each generator

double pole circuit breaker with overload and reversed current trip, and a single pole equalizer switch as required

the Rules. — For each outgoing circuit a double pole linked switch and a double pole fuse as per Rules.

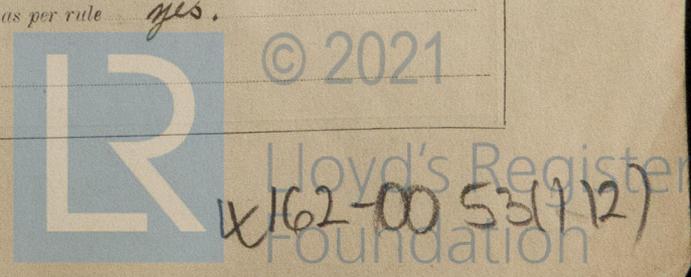
instruments on main switchboard 6 ammeters 4 voltmeters ✓ synchronising device for paralleling purposes.

Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system One voltmeter is

provided with an Ohm scale and the switchboard is provided with two sets of earth testing lamps.

switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules yes

Construction and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule yes.





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.

**AKTIESELSKABET  
 BURMEISTER & WAIN'S MASKIN- OG SKIBSBYGGERI**

Electrical Engineers.

Date

**COMPASSES.**

Distance between electric generators or motors and standard compass *about 40 feet.*

Distance between electric generators or motors and steering compass *about 32 feet.*

The nearest cables to the compasses are as follows:—

A cable carrying *abt. 8* Ampères *abt 6* feet from standard compass *abt 9* feet from steering compass.

A cable carrying "*0.2* Ampères *to the lamp in feet from* standard compass *and in the* feet from steering compass.

A cable carrying  Ampères  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

The maximum deviation due to electric currents was found to be *0* degrees on *all* course in the case of the standard compass, and *0* degrees on *all* course in the case of the steering compass.

**AKTIESELSKABET  
 BURMEISTER & WAIN'S MASKIN- OG SKIBSBYGGERI**

Builder's Signature.

Date

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.)

*The whole electric lighting and power installation as above described has been fitted in accordance with the Rules, the approved plan and the requirements contained in the London letter's E dated the 9<sup>th</sup> and 21<sup>st</sup> April 1925.*

*The material used and the workmanship are of good description in every respect and the whole electric installation has been tested under full power working condition and found satisfactory.*

*Recommend the vessel to have notation of "Electric light" in the Register Book.*

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

Total Capacity of Generators *195* Kilowatts

The amount of Fee *is noted on the Machinery Report 6<sup>th</sup> Jan. 1926.*

Travelling Expenses (if any) £ *✓* : *✓* :  
 When received, 19

*As. Inspect. S. Mauren*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

**FRI. 22 JAN 1926**

Assigned

Jan 9, 26.—Transfer.  
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)



© 2021

Lloyd's Register  
 Foundation