

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL) 25 AUG 1945

Date of writing Report 29<sup>th</sup> March 41 When handed in at Local Office 10 Port of Copenhagen  
Date, First Survey 22<sup>nd</sup> Feb. 1940 Last Survey 3<sup>rd</sup> March 1941  
Reg. Book. on the Single Se. Motor Tanker "HENNING MÆRSK" (Number of Visits 14)  
Gross Tons 9842  
Net Tons 5912  
When built 1941  
Built at Skakker By whom built Skakker Skibsverft and No. 93  
Owners 9/5 of 1912, 9/5 of Smedborg Port belonging to Copenhagen  
Electric Light Installation fitted by 9/5 Skakker Skibsverft Contract No. - When fitted 1941  
the Vessel fitted for carrying Petroleum in bulk yes

System of Distribution Two conductor insulated systems  
Pressure of supply for Lighting 110 volts, Heating - volts, Power 110 volts.  
Direct or Alternating Current, Lighting direct Power direct  
alternating current system, state frequency of periods per second -  
Is the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off no  
Generators, do they comply with the requirements regarding temperature rise yes, are they compound wound yes  
they over compounded 5 per cent. yes, if not compound wound state distance between each generator.  
Are 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 Have certificates of test results for machines under 100 kw. been submitted and  
proved Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing none  
All terminals accessible, clearly marked, and furnished with sockets yes, are they so spaced or shielded that they cannot be accidentally earthed,  
not circuited, or touched yes Are the lubricating arrangements of the generators as per Rule yes  
Position of Generators placed in the engine room floor level, is the ventilation  
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 or same horizontally from or vertically above the generators no woodwork etc.  
Are the generators protected from mechanical injury and damage from water, steam or oil yes, are their axes of rotation fore and aft yes  
Nothing, are the bedplates and frames of the generating plant efficiently earthed yes are the prime movers and their respective generators  
metallic contact yes Main Switch Boards, where placed in port side of the engine room  
If the generators and main switchboard are not placed in the same compartment, is each generator provided with  
se 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 no woodwork etc., are they constructed wholly of durable, non-ignitable non-absorbent  
materials yes, is all insulation of high dielectric strength and of permanently high insulation resistance yes  
of an approved type yes, if semi-insulating material is used, are all conducting parts insulated from the slab with mica or micanite or other  
hygroscopic insulating material, and the slab similarly insulated from its framework yes, is the non-hygroscopic insulating material of an approved  
yes, and is the frame effectively earthed yes Are the fittings as per Rule regarding: - spacing or shielding of live parts  
accessibility of all parts absence of fuses on back of board temperature rise of  
bus bars yes, individual fuses to voltmeter, pilot or earth lamp yes, are moving parts of switches alive in the  
position no are all screws and nuts securing connections effectively locked yes are any fuses fitted on the live side of  
Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches  
generators: - A 2 pole circuit breaker with overload trip  
Outgoing circuits: - A 2 pole switch with fuses on each pole  
Are cupboards or compartments containing switchboards composed of  
insulating material or lined with approved material yes Instruments on main switchboard 3 ammeters 2  
synchronising device for paralleling purposes. For compound machines is the ammeter connected on the opposite pole to equaliser connection  
Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system  
of earth lamps for each generator  
Do they comply with the requirements of the Rules yes are the fusible cutouts of an approved type yes have the reversed







All Conductors are of annealed copper conforming to British Standard Specification No. 7 (or International Electro-technical Commission Publication No. 28).

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.

The foregoing is a correct description.

NARSKOV SKIBSVÆRFT

Electrical Engineers.

Date

#### COMPASSES.

Distance between electric generators or motors and standard compass 63 m

Distance between electric generators or motors and steering compass 60 m

The nearest cables to the compasses are as follows:—

A cable carrying 0.136 Ampères 6 inches feet from standard compass the magnetic system is in the

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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 no

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been

The maximum deviation due to electric currents was found to be degrees on

compass, and degrees on course in the case of the steering compass.

Builder's Signature.

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, etc.) The electric installation as herein described has been constructed and fitted in accordance with the Rules the approved plans and the Secretary's letters. The material used is of good description and the workmanship is good.

In order to complete the survey the electric installation as herein described requires to be tested under working conditions.

Total Capacity of Generators 46 Kilowatts.

The amount of Fee £ 583.00 When applied for, 6.11.19.41  
When received, 19

Travelling Expenses (if any) £ :-

FRI. 1 FEB 1946

Committee's Minute

Assigned

See minutes on p. 11

J. Langhorne  
Surveyor to Lloyd's Register of Shipping.



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