

Rpt. 13.

No. 19852

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL) 24 APR 1931

Date of writing Report 30-3-31 19 When handed in at Local Office 19 Port of Hamburg Received at London Office

No. in Survey held at Hamburg Date, First Survey 6-2-31 Last Survey 26-3-31 19
Reg. Book. on the Steel Se. NORDEN (Number of Visits 18)Built at Hamburg. By whom built Deutsche Werft A.G. Yard No. 144 Tons { Gross 8440
Net 5286.59
When built 1931

Owners Skibs A/S Norden, H. Kuhnle Port belonging to Bergen

Electric Light Installation fitted by Allg. Elektrizitäts-Gesellschaft Contract No. When fitted 1931

System of Distribution Two wire, two conductor system. Lauher.

Pressure of supply for Lighting 115 volts, Heating - volts, Power 115 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 rating 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, clearly marked, and furnished with sockets yes, are they so spaced or shielded that they cannot be accidentally earthed,

short circuited, or touched yes Are the lubricating arrangements of the generators as per Rule yes

Position of Generators main engine room, lower platform, port side

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 axes 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 main engine room, lower platform, port side

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, non-ignitable 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 insulated from the slab

with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework yes

and is the frame effectively earthed yes Are the fittings as per Rule regarding: - 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

A fuse on each pole and a double pole switch. For each outgoing circuit a fuse on

each pole and a double pole change over switch.

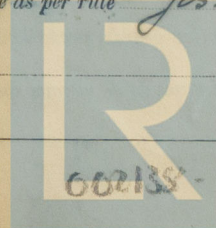
Instruments on main switchboard 2 ammeters 2 voltmeters - synchronising device for paralleling purposes.

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

alarm lamps

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

Joint Boxes, Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule yes



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602138-002150-00172

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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.

ALLGEMEINE ELEKTRICITÄTS-GESELLSCHAFT
ABT. f. SCHIFFBAU
HAMBURG

Electrical Engineers.

Date 31. März 1931

COMPASSES.

Distance between electric generators or motors and standard compass about 100 m

Distance between electric generators or motors and steering compass " 100 "

The nearest cables to the compasses are as follows:—

A cable carrying 0.5 Amperes close to feet from standard compass close to 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 with and without

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

DEUTSCHE WERFT
AKTIENGESELLSCHAFT

Builder's Signature.

Date

17. April 1931

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.)

Material and workmanship of this electric installation are of good quality. The Society's Rules respecting conductors have been applied generally as the German Standards are used in the construction. The installation has been built under Special Survey in accordance with the requirements of the Rules, the approved plans and the Secretary's letters. It has given full satisfaction under full working condition and is eligible in my opinion to be classed in the Register Book with Record of "Electric Light."

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

Electric Light

29/30/4/31

Total Capacity of Generators 24 - Kilowatts.

The amount of Fee ... £ 19 : 10 - When applied for, 20.4.1931

Travelling Expenses (if any) £ : : When received, 21.5.1931

Committee's Minute FRI. 1 MAY 1931

Assigned

Electric Light

Surveyor to Lloyd's Register of Shipping.



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