

REPORT ON ELECTRIC FITTINGS.

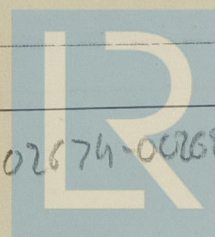
(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

23 DEC 1927

Date of writing Report 1/12 1927 When handed in at Local Office 1927 Port of Copenhagen
 No. in Survey held at Odense Date, First Survey 20/10 27 Last Survey 24/11 1927
 Reg. Book. 42013 on the Steel Twin S. Motor vessel "NYHOLM" (Number of Visits 9)
 Built at Odense By whom built Odense Staalskibsvarf Yard No. 27 When built 1927
 Owners Christian Haaland Port belonging to Haugesund
 Electric Light Installation fitted by Danske Elektricitetskompani, A/S Contract No. — When fitted 1927
Odense

System of Distribution Two conductor insulated system ✓
 Pressure of supply for Lighting 110 ✓ volts, Heating 220 ✓ volts, Power 220 ✓ 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 yes ✓, 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 ✓
 Position of Generators placed in the motor room ✓
 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 on a platform in the motor room ✓
 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 yes ✓
 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 micaite 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 for each generator: one 3 pole linked switch with overload circuit breaker & reversed current trip & equalizer switch as per Rule 3 par. 3.A. (f). For each outgoing circuit: one double pole linked switch and a fuse on each pole.
 Instruments on main switchboard 6 ammeters 3 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 2 set earth lamps (110 volts & 220 volts), one of the Voltmeter fitted with 2 scale.
 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 ✓



© 2020

Lloyd's Register Foundation

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.

W

Lynghøj.

Electrical Engineers.

Date 9 - 12 - 27.

COMPASSES.

Distance between electric generators or motors and standard compass 192'

Distance between electric generators or motors and steering compass 190'

The nearest cables to the compasses are as follows:—

A cable carrying 2.5 Amperes 15 feet from standard compass 8 feet from steering compass.

A cable carrying 11 Amperes 22 feet from standard compass 16 feet from steering compass.

A cable carrying 0.2 Amperes 10" feet from standard compass 10" 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 any course in the case of the standard compass, and 0 degrees on any course in the case of the steering compass.

PR. ODENSE STAALSKIBSVÆRFT

VED A. P. MØLLER

Builder's Signature.

Date 12-12-27.

John Marsh Anseley

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 Electric Lights and Power Installation as above described has been fitted in accordance with the Society's Rules, the approved plan and the requirements contained in the Secretary's letters 3 dated 1/9 26 and 27/9 27.

The material used in the installation is of good description throughout and the workmanship of high quality.

After completion the whole electric installation was tested under full power working conditions and found satisfactory.

Recommend the vessel to have notation of "ELEC. LIGHT" in the Reg. Book.

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

TWD.

28/12/27.

Total Capacity of Generators 165 Kilowatts.

The amount of Fee ... 1/2 18.20
Travelling Expenses (if any) £ : : 1/2 632.45

When applied for,

17/12 1927

When received,

17.1.1928

Chisholm
Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 30 DEC 1927

Assigned

Electric Light