

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office. 1 JUN 1946

Date of writing Report... 10-5-1946 When handed in at Local Office... 19... Port of Rotterdam

No. in Survey held at Rotterdam Date, First Survey 5-3-46 Last Survey 10-5-1946  
Reg. Book. 35409 on the MV "Van Gelder" Tons { Gross... 325  
Net... 230

Built at Duisburg By whom built Ewald Birmingham Yard No. 1914 When built 1914

Owners Mrs J Vermeas Schuurmaat Bidaif Port belonging to Rotterdam

Electrical Installation fitted by Clas Electrical Services Contract No. 1941 When fitted 1941

Is vessel fitted for carrying Petroleum in bulk no Is vessel equipped with D.F. Yes E.S.D. no Gy.C. no Sub.Sig. no

Have plans been submitted and approved Yes System of Distribution Two conductor insulated Voltage of supply for Lightings 24-24V

Heating ✓ Power ✓ Direct or Alternating Current, Lighting DC Power ✓ If Alternating Current state frequency ✓ Prime Movers,

has the governing been tested and found efficient when the whole load is suddenly thrown on and off ✓ Are turbine emergency governors fitted with a trip switch as per Rule ✓ Generators, are they compound wound Shuntwound working in parallel with a battery, are they level compounded under working conditions ✓

if not compound wound state distance between generators ✓ and from switchboard ± 9 feet Where more than one generator is fitted are they arranged to run in parallel ✓, are shunt field regulators provided Yes Is the compound winding connected to the negative or positive pole ✓

✓ Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing ✓ Have certificates of test for machines under 100 kw. been supplied ✓ and the results found as per rule ✓ Are the lubricating arrangements and the construction of the generators as per rule Yes Position of Generators in engine room forward of main engine

is the ventilation in way of generators satisfactory Yes are they clear of inflammable material Yes, if situated near unprotected combustible material state distance from same horizontally ✓ and vertically ✓, are the generators protected from mechanical injury and damage from water, steam and oil Yes, are the bedplates and frames earthed Yes and the prime movers and generators in metallic contact Yes Switchboards, where are main switchboards placed in engine room, Starboard side

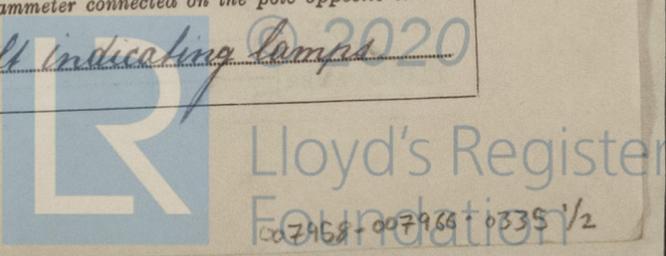
are they in accessible positions, free from inflammable gases and acid fumes Yes, are they protected from mechanical injury and damage from water, steam and oil Yes, if situated near unprotected combustible material state distance from same horizontally ✓ and vertically ✓, what insulation material is used for the panels current carrying parts are mounted on porcelain insulators, if of synthetic insulating material is it an Approved Type Yes, if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule Yes Is the frame effectually earthed Yes

Is the construction as per Rule Yes, including accessibility of parts Yes, absence of fuses on the back of the board Yes, individual fuses to pilot and earth lamps, voltmeters, etc., Yes locking of screws and nuts ✓, labelling of apparatus and fuses ✓, fuses on the "dead" side of switches Yes Description of Main Switchgear for each generator and arrangement of equaliser switches ✓

generator: a d p switch, d p fuses and an automatic cut in & cut out switch  
battery: a d p switch + d p fuses  
and for each outgoing circuit: a d p switch and d p fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard one

ammeters one voltmeters ✓ synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the equaliser connection ✓ Earth Testing, state means provided one pair of earth fault indicating lamps





The Electrical Equipment is installed in accordance with the approved plans and the requirements of the Rules.  
 All Insulated Conductors are guaranteed to have been tested at the maker's works as specified in the Rules.  
 The foregoing is a correct description.

..... Electrical Engineers. Date.....

**COMPASSES.**

Minimum distance between electric generators or motors and standard compass ± 20 feet

Minimum distance between electric generators or motors and steering compass ± 16 feet

The nearest cables to the compasses are as follows:—

A cable carrying 17 Ampères  feet from standard compass 3 feet from steering compass.

A cable carrying  Ampères  feet from standard compass  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

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

..... Builder's Signature. Date.....

Is this installation a duplicate of a previous case..... If so, state name of vessel.....

General Remarks (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.).....

*The electric installation have now been overhauled and made in order, the insulation megger tested and was found not less than 100,000 Ω and has been examined under working conditions and was found in order, workmanship good and merits in my opinion the Committee's Approval*

*Noted OK on 5.7.46*

Total Capacity of Generators 1-2476 KW Kilowatts.

The amount of Fee ... ..	£ <u>760.00</u>	} When applied for, .....19.....
Travelling Expenses (if any) £	: : :	

*H. A. Hassell*  
 Surveyor to Lloyd's Register of Shipping.

FRI. 19 JUL 1948

Committee's Minute .....

Assigned See minute on machinery E.E. rpt.

2m.10.38.—Transfer. (MADE IN ENGLAND.)  
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)



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