

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Registered at London Office 12 APR 1948

Date of writing Report 21<sup>st</sup> March 48 When handed in at Local Office 19..... Port of Amsterdam  
 No. in Survey held at Zaandam Date, First Survey 17<sup>th</sup> Febr. Last Survey 19<sup>th</sup> March 1948  
 Reg. Book. on the MS. Prinsengracht Tons { Gross 499.97  
 Net 350.90

Built at Zaandam By whom built N.V. Zaanlandsche- Yard No. 448 When built 1948  
 Owners Spliethoff's Bevrachtingskantoor Scheepsbouw Mij Port belonging to  
 Electrical Installation fitted by Sterel & Wechgele Contract No. When fitted 1948

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

Have plans been submitted and approved yes System of Distribution two-wire-system Voltage of supply for Lighting 32/40V

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

has the governing been tested and found as per Rule when full load is suddenly thrown on and off Are turbine emergency governors fitted with a

trip switch as per Rule Generators, are they compound wound shunt, are they level compounded under working conditions

if not compound wound state distance between generators and from switchboard Where more than one generator is fitted are they

arranged to run in parallel No, 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 starboard side near fore bulkhead

is the ventilation in way of generators satisfactory yes are they clear of inflammable material yes, if situated

near unprotected combustible material state distances 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 beltdrives Switchboards, where are main switchboards placed in engine room Portside near after bulkhead

first grating

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 iron clad switch and fuse gear-units, if of synthetic insulating material is it an Approved Type, if of

semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule 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 yes, labelling of apparatus and fuses yes, fuses on the "dead"

side of switches yes Description of Main Switchgear for each generator and arrangement of equaliser switches

double pole change-over-switch and double pole fuses and automatic cut-in and cut out

switch for battery

and for each outgoing circuit d.p. rotary switch and double pole fuses

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

ammeters 1 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 earth lamps coupled to E. through dp fuses (normal continent L cartridge)

Switches, Circuit Breakers and Fuses, are they as per Rule yes, are the fuses an approved type type, are all fuses labelled as

per Rule yes If circuit breakers are provided for the generators, at what overload current did they open when tested are the reversed current

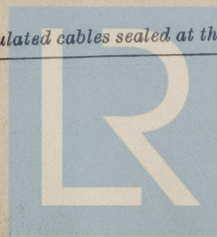
protection devices connected on the pole opposite to the equaliser connection have they been tested under working conditions, and at what current

did they operate Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule yes

Cables, are they insulated and protected as per the appropriate Tables of the Rules yes, if otherwise than as per Rule are they of an approved type

state maximum fall of pressure between bus bars and any point under maximum load 1.8V are the ends of all cables having a sectional area of 0.04

square inch and above provided with soldering sockets yes Are paper insulated and varnished cambric insulated cables sealed at the ends





supported and protected. ~~PROPERTY NOT TO BE LOANED TO ANYONE WITHOUT WRITTEN PERMISSION~~

15 cables clipped to woodgrounds or surface in accommodations

Are all lead sheaths, armouring and conduits effectually bonded and earthed. yes Refrigerated chambers, are the cables and fittings as per Rule. yes

Are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands, yes, where unarmoured cables pass through

the groups of lights in the engine and boiler rooms arranged as per Rule V of the Regulations for the Construction of Steamships, 1929, and the lights conspicuously colored red and with what material, Red Glass Alternative Lighting, are

..... and method of control

Navigation Lamps, are they separately wired *yes* controlled by separate

double pole switches yes and fuses yes. Are the switches and fuses in a position accessible only to the officers on watch yes, is an

automatic indicator fitted yes..... Secondary Batteries, are they constructed and fitted as per Rule yes....., are they adequately ventilated yes.....

what is the battery capacity in ampère hours. 2 batteries enclosed in iron ventilated cases in engine room each 32 V 200.

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof yes. Are fittings

....., if so, how are they protected.....

and where are the controlling switches fitted

are all fittings and accessories constructed and installed as per Rule. yes Searchlight Lamps No. of — whether fixed or portable —

....., are their fittings as per Rule..... Heating and Cooking, is the general construction as per Rule —

are the frames effectually earthed....., are heaters in the accommodation of the convection type..... Motors, are all motors constructed and

installed as per Rule..... and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from water,

steam and oil....., if situated near unprotected combustible material state minimum distance from same horizontally..... and vertically..... Are

motors coupled to oil fuel transfer and unit pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment.....

100 BHP intended for essential services. \_\_\_\_\_ Have certificates of test for motors under

Control Gear and Resistances, are they constructed and fitted as per Rule. — Steel masts

less than 150° F. Have all the special requirements of the Rules for such ships been complied with \_\_\_\_\_ are all fuses of the cartridge type \_\_\_\_\_

are they of an approved type..... Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such

ships..... Are the cables lead covered as per Rule..... Spare Gear, if the vessel is for open sea service have spares been provided as per

Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory. —

ATED AT

NOTARY PUBLIC STATE OF TEXAS  
 My Comm. Expires 08/15/2018

CONDUCTORS.	
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CONDUCTORS	MAXIMUM
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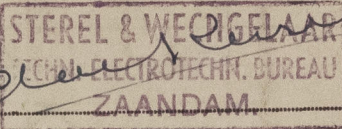
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LIGHTING AND HEATING



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 12-3-48

#### COMPASSES.

Minimum distance between electric generators or motors and standard compass 36 feet

Minimum distance between electric generators or motors and steering compass 27 feet

The nearest cables to the compasses are as follows:—

A cable carrying 0.2 Ampères led into feet from standard compass led into feet from steering compass.

A cable carrying 12 Ampères 12 feet from standard compass 8 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 yes

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

Builder's Signature.

Date.

Is this installation a duplicate of a previous case no If so, state name of vessel —

Plans. Are approved plans forwarded herewith none If not, state date of approval 12-1-48

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith

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

The electrical equipment has been installed under special survey and in accordance with or equivalent to the approved plan

The materials used are of good quality and the workmanship is good; the installed fuses are cartridge fuses 6-60 amp make Beuster - fuse bases 6-60 amp Hazemeyer.

On completion the equipment was run under working condition and insulation resistance of all circuits measured and was found satisfactory

I am of opinion that this equipment merits the approval of the committee

The generators have been supplied in 1941 and maker test cert. were not available, but it has been stated by suppliers, that these generators have been manufactured to Rules Requirements

Noted  
S. S. A. 7.

Total Capacity of Generators Kilowatts.

The amount of Fee ... £ 75. : When applied for, 9-4-19 40  
Travelling Expenses (if any) £ 10.50. : When received, 19.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 7 MAY 1948

Assigned Sen F.E. mch. rpt.



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