

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report..... 9-8-47 x..... When handed in at Local Office..... 10..... Port of..... GRONINGEN.

No. in Survey held at..... Delfzijl..... Date, First Survey..... 21-2-47..... Last Survey..... 1-8-47..... xpx
Reg. Book. (Number of Visits..... 6.....)

on the..... steel single screw motorvessel "BATAVIER"..... Tons { Gross..... 394.96
Net..... 147.58

Built at..... Delfzijl..... By whom built..... Schw. Fa. Gebr. Niestern & Co. Yard No..... 226 When built..... 1941

Owners..... Mr. J. Muthert..... Port belonging to..... Groningen.

Electrical Installation fitted by..... Fa. Herman G. Eekels, Hoogezand..... Contract No..... When fitted..... 1947

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

Have plans been submitted and approved..... yes..... System of Distribution..... two wire..... Voltage of supply for Lighting..... 48 V.

Heating..... Power..... 48 V. Direct or Alternating Current, Lighting..... 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..... yes..... Are turbine emergency governors fitted with a

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

if not compound wound state distance between generators..... and from switchboard..... 10 ft. 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..... yes..... and the results found as per rule..... yes..... Are the lubricating arrangements and the construction

of the generators as per rule..... yes..... Position of Generators..... in engineroom starboard side.

..... 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..... no woodwork..... and vertically..... no woodwork..... 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..... no..... Switchboards, where are main switchboards placed..... in engineroom Portside

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..... no woodwork..... and vertically..... no woodwork..... insulation

material is used for the panels..... iron plates, porcelain insulation..... 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 switch and

double pole fuses.

and for each outgoing circuit..... double pole switch and double pole fuses.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule..... Instruments on main switchboard..... 2

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..... two earth lamps

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

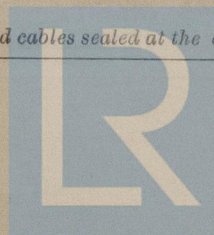
protection devices connected on the pole opposite to the equaliser connection..... have they been tested under working conditions, and at what current

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 Volt..... 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.....



PARTICULARS OF SERVICE, ETC., OF THE VESSEL.

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.

[Signature]
HERMAN G. ECKELS

Electrical Engineers.

Date 13-8-47.

COMPASSES.

Minimum distance between electric generators or motors and standard compass 36 ft.

Minimum distance between electric generators or motors and steering compass 28 ft.

The nearest cables to the compasses are as follows:—

A cable carrying 42 Ampères 30 feet from standard compass 38 feet from steering compass.

A cable carrying 4 Ampères 25 feet from standard compass 5 feet from steering compass.

A cable carrying 12 Ampères 14 feet from standard compass 16 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 noted no

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.

F. GEHR. NIESTERN & Co.

Builder's Signature.

Date 16-8-47

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

Plans. Are approved plans forwarded herewith no If not, state date of approval 12-6-47

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

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

This installation has been fitted in accordance to the Society's Rules, approved plan and Secretary's letters and was found in good working condition when tried and in my opinion may merit the Committee's approval.

Noted *[Signature]* 18/9/47

Total Capacity of Generators 2 Kilowatts.

The amount of Fee ... £1. 90.--

When applied for,

19

Travelling Expenses (if any) £ : :

When received.

19

[Signature]
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 19 SEP 1947

Assigned

See F.E. mch. rpt.